



Government of West Bengal
Directorate of Forests
Office of the Chief Conservator of Forests
Central Circle, West Bengal,
3rd Floor, (Phase- I), Webel IT Park,
Gandhi More, Durgapur, West Bengal- 713208,
E-mail: ccfcc.fd-wb@gov.in, Phone & Fax: 0343-254 9911



Memo. No. 1208/3A-1

Dated: 21/10/2022

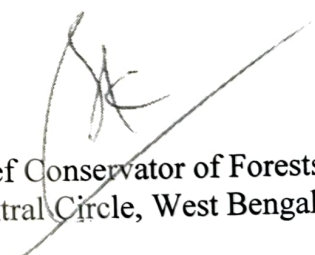
To : The Addl. Principal Chief Conservator of Forest & Nodal Officer,
Forest Conservation Act, West Bengal.

Sub : Submission of CA land proposal of ESSAR Oil Project

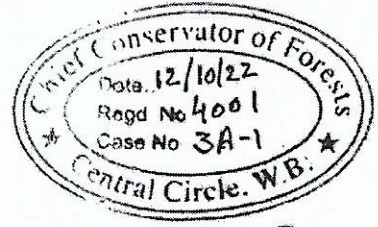
Ref : Your good Office *memo. no.* 5806/L</2M-1081/2014 dated 12.09.2022 and this
Office *memo. no.* 1059/3A-1, dt. 09.09.2022.

With reference to the above, this is to bring to your kind knowledge that the submission of proposal for creation of plantation including 10th year maintenance of high intensity wildlife fodder plantation and list of high intensity wildlife fodder tree species of concern Divisions of this Circle for taking necessary action at your end.

Enclosure: As stated


Chief Conservator of Forests
Central Circle, West Bengal

12.10.22



Government of West Bengal
Directorate of Forests

Office of the Divisional Forest Officer, Bankura (North) Division
Machantala, Bankura, Pin: 722101

Phone: (03242-250758) – Fax: (03242-256556), e-mail:dfoban-wb@nic.in&dfo_bkn@yahoo.com
Visit us at: www.bankuraforest.in

Memo. No- 2457/15

Dated, Bankura, the 29/09/2022

From :: The Divisional Forest Officer,
Bankura (North) Division.

To :: The Chief Conservator of Forests,
Central Circle, West Bengal.

Sub :: Submission of CA land proposal of ESSAR OIL Project.

Ref :: Office of the CCF, CC, WB's memo no. 1151(2)/3A-1 Dated 29/09/2022

Sir,

With reference to the above mentioned subject, enclosed please find herewith the estimate for
Creation of CA Plantation (per Ha) 2022-23 under Bankura (North) Division.


This is for your kind perusal.



Divisional Forest Officer,
Bankura (North) Division.

Estimate for Creation of CA Plantation (per Ha) 2022-23

Type of Plantation		Fodder Tree Plantation						
No. of Seedlings per Ha.		1100						
Spacing per Ha.		3m X 3m						
Pit Size		60cm. X 45cm. X 45cm.						
Species Name		Scientific Name						
Mahul		<i>Madhuca latifolia</i>						
Jam		<i>Syzygium cumini</i>						
Bel		<i>Aegle marmelos Linn, Corrz</i>						
Chalta		<i>Dillenia indica</i>						
Kayet Bel		<i>Limonia acidissima L</i>						
Bat		<i>Ficus bengalensis Linn</i>						
Dumur		<i>Ficus hispida L</i>						
Piyal		<i>Buchanania lanzan Spr</i>						
Kajmola		<i>Ailanthus altissima</i>						
Bahera		<i>Terminalia belerica</i>						
Amla		<i>Emblica officinalis</i>						
Haritaki		<i>Terminalia chebula</i>						
Sal		<i>Shorea robusta</i>						
Sl. No.	Particulars of Work	SoR Ref.	Unit		Rate	Quantity		Amount (Rs.)
1	Survey and demarcation of the plantation site including preparation of Regeneration Map and GPS Survey map	29	1	Ha	542	1	Ha	542
2	Clearance of undergrowing in thick forest areas, Clear felling, burning, heaping & reburning in moderate density areas of undergrowth and bushes	27(c)	1	Ha	3415	1	Ha	3415
3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1	Ha	1483	1	Ha	1483
4	Pit cutting	31(b)	1	Ha	14228	1	Ha	14228
5	Soil moisture Conservation- Digging of box trench over a length of 500mt of size 5m X 0.45m X 0.45m	32	1	Ha	9960	1	Ha	9960
6	Digging of Cattle Proof Trench all along the boundary to prevent entry of cattle into plantation site of dimensions, top - 1.5m X depth - 1m X bottom - 1m	47	100	mtr	142	100	mtr.	14200
7	Sorting and shifting of seedlings per each time	11(ii)	1000	Nos	854	1210	Nos.	1033.34
8	Weeding and Cleaning of Seedlings in Hycopot/ root trainers per each time	12(ii)	1000	Nos	854	1210	Nos.	1033.34
9	Watering of seedlings in Hycopot two times per day	13(ii)	10000	Nos	427	1210	Nos.	51.667
10	Creation of inspection path by removing weeds, scarping and by providing proper drain along the diagonal of the plantation site, of 3mt wide	42	100	mtr	1423	50	mtr.	711.5
11	Pit filling and application of Farm yard Manure	33(ii)	1	Ha	6260	1	Ha.	6260
12	Transplanting of Hycopot seedlings into pits including man carriage from the unloading point:	36(ii)	1000	Nos	3699	1210	Nos.	4475.79
13	Application of insecticides and other chemicals whenever necessary	41	1000	Nos	569	1100	Nos.	625.9
14	vacancy filling of pits with new seedling wherever there mortality due abiotic and biotic	40	100	Nos	427	110	Nos.	469.7
15	1st Cleaning	38(a)	1	Ha	3984	1	Ha.	3984
16	Mulching	39(b)	1000	Nos	3415	1100	Nos.	3756.5
17	2nd Cleaning	38(b)	1	Ha	3415	1	Ha.	3415
18	3rd Cleaning	38(c)	1	Ha	2846	1	Ha.	2846

19	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1138	300 mtr.	3414
20	Watering of Sal Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time	630	5 times	3150
21	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	3415	1 Ha.	3415
22	Material: a) Farm Yard Manure- ii) Sal 8m ³	50(a)(ii)	1 Ha	9200	0.6 Ha.	5520
23	Material: c) Chemical Fertilisers	50(c)	1 MT	28750	0.08 MT.	2300
24	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	690	1 Ha.	690
25	Purchase of ingredients for different materilas required for Forestry Operation including carriage upto 5km : k) Organic manure (50gms/ plants)	3(k)	1 MT	23000	0.08 MT.	1840
26	Transporation of Hycopot seedlings from nursery to Plantation site including loading & unloading: d) lead distance>20km & upto 30km: 300CC Hycopot	34(d)	1000 Nos	2118	1210 Nos.	2562.78
27	Collection of Hycopot after plantation & transporting back to central nursery after careful packing etc. : d) lead distance> 20km & upto 30km : 300CC Hycopot	43(d)	1000 Nos	368	1210 Nos.	445.28
28	Cost of Signage (one foe each 10Ha or part thereof)	49				300
29	Barbed wire fencing, with 4 strand, using RCC post of 6 ft height and 6 inch girth at 2.5mt apart. Fixing the fence posts after digging pits of 30cm X 30cm X 40cm depth and consolidation, ensuring firm fixture, Unrolling and fixing barbed wire with 'U' nails in four rows, ensuring proper fixture	46(b)				32650
30	Maintenance Work for 10 yrs		Qnty/MD	Year	Rate	Amount (Rs.)
i)	Vacancy infilling & including carriage		5	5	284	7100
ii)	1st time weeding cleaning & mulching		10	10	284	28400
iii)	2nd time weeding cleaning & mulching		8	8	284	18176
iii)	3rd time weeding cleaning & mulching		6	5	284	8520
iv)	Repair of fencing		2	10	284	5680
v)	Cutting of Fire line 3 mtr. Wide & revoing the debris material to prevent fire		5	10	284	14200
vi)	Watch & Ward		10	10	284	28400
A	Total					2,39,253.80
B	Add GST (12% on A)					28,710.46
C	A + B					2,67,964.25
D	Add Cess (1% on Cess)					2,679.64
E	Add Contingency (3% on C)					8,038.93
F	Grand Total (C+D+E)					2,78,682.82


 Divisional Forest Officer,
 Bankura (North) Division.

Countersigned

 Chief Conservator of Forests
 Central Circle, West Bengal



Government of West Bengal
Directorate of Forests
Office of the Chief Conservator of Forests
Central Circle, West Bengal,
3rd Floor, (Phase- I), Webel IT Park,
Gandhi More, Durgapur, West Bengal- 713208,
E-mail: ccfcc.fd-wb@gov.in, Phone & Fax: 0343-254 9911



Memo. No. 100/3A-1

Dated: 19/09/2022

To : The Addl. Principal Chief Conservator of Forest & Nodal Officer,
Forest Conservation Act., West Bengal.

Sub : Submission of CA land proposal of ESSAR Oil Project .

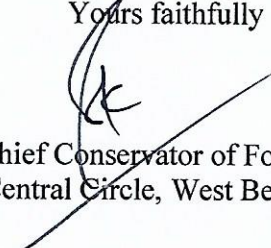
Ref : Your office memo No.5806/L</2M-1081/2021 dated 12.09.2022.

Sir,

With reference to above, this is to bring to your kind knowledge that the submission of proposal for creation of high intensity wildlife fodder tree plantation, CA land protection, construction of over head tank, 1st to 10th year maintenance of high intensity wildlife fodder plantation and list of high intensity wildlife fodder tree species for your kind approval and taking necessary action at your end.

Encl: As stated

Yours faithfully


Chief Conservator of Forests
Central Circle, West Bengal

Estimate for Creation of High Intensity Wildlife Fodder Tree Plantation (per Ha) 2022-23

Type of Plantation		High Intensity Fodder Tree Plantation including Bamboo				
No. of Seedlings per Ha.		1100				
Spacing per Ha.		3m X 3m				
Pit Size		60cm. X 45cm. X 45cm.				
Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
1	Survey and demarcation of the plantation site including preparation of Regeneration Map and GPS Survey map	29	1 Ha	542	1 Ha	542
2	Clearance of undergrowing in thick forest areas, Clear felling, burning, heaping & reburning in moderate density areas of undergrowth and bushes	27(c)	1 Ha	3415	1 Ha	3415
3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1 Ha	1483	1 Ha	1483
4	Pit cutting	31(b)	1 Ha	14228	1 Ha	14228
5	Soil moisture Conservation- Digging of box trench over a length of 500mt of size 5m X 0.45m X 0.45m	32	1 Ha	9960	1 Ha	9960
6	Sorting and shifting of seedlings per each time	11(ii)	1000 Nos	854	1210 Nos.	1033.34
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8	Watering of seedlings two times per day	13(ii)	10000 Nos	427	1210 Nos.	51.667
9	Creation of inspection path by removing weeds, scarping and by providing proper drain along the diagonal of the plantation site, of 3mt wide	42	100 mtr	1423	50 mtr.	711.5
10	Pit filling and application of Farm yard Manure	33(ii)	1 Ha	6260	1 Ha.	6260
11	Transplanting of seedlings into pits including man carriage from the unloading point:	36(ii)	1000 Nos	3699	1210 Nos.	4475.79
12	Application of insecticides and other chemicals whenever necessary	41	1000 Nos	569	1100 Nos.	625.9
13	Vacancy infilling of pits with new seedling wherever there mortality due to abiotic and biotic factors	40	100 Nos	427	110 Nos.	469.7
14	1st Cleaning	38(a)	1 Ha	3984	1 Ha.	3984
15	Mulching	39(b)	1000 Nos	3415	1100 Nos.	3756.5
16	2nd Cleaning	38(b)	1 Ha	3415	1 Ha.	3415
17	3rd Cleaning	38(c)	1 Ha	2846	1 Ha.	2846
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19	Watering of Wildlife Fodder Tree including Bamboo Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time	630	5 times	3150
20	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	3415	1 Ha.	3415
21	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 4ft.			100	1210 Nos.	121000
22	Material: a) Farm Yard Manure- ii) Fodder Tree including Bamboo 8m ³	50(a)(ii)	1 Ha	9200	0.6 Ha.	5520
23	Material: c) Chemical Fertilisers	50(c)	1 MT	28750	0.08 MT.	2300
24	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	690	1 Ha.	690
25	Purchase of ingredients for different materilas required for Forestry Operation including carriage upto 5km : k) Organic manure (50gms/ plants)	3(k)	1 MT	23000	0.08 MT.	1840
26	Transporation of seedlings from nursery to Plantation site including loading & unloading: d) lead distance>20km & upto 30km:	34(d)	1000 Nos	2118	1210 Nos.	2562.78
27	Cost of Signage (one foe each 10Ha or part thereof)	49				300
A	Total					202483
B	Add GST (12% on A)					24298
C	A + B					226780
D	Add Cess (1% on Cess)					2268
E	Add Contingency (3% on C)					6803
F	Grand Total (C+D+E)					235852


Prepared By

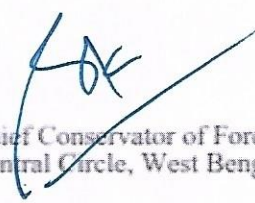
Checked By

Verified By


Range Officer
Attached Forest Range
Bankura (South) Division


Asst. Div. Forest Officer
Bankura (S) Division


Divisional Forest Officer
Bankura (South) Division


Chief Conservator of Forests
Central Circle, West Bengal


ESTIMATE FOR C. A. LAND PROTECTION


Schedule adopted P.W.D 2017

	DESCRIPTION OF WORK	No	Length	Breadth	Hight	Qty.	unit	Rate	Amount
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. According to PWD Schedule, 2017Page-1/lt. no-2(a)	500	0.5	0.5	0.5	62.50000	%cum	11927.00	7454.38
2	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. According to PWD Schedule, 2017Page-24/lt. no-4 (a)(d)								
	a) (d) With local hard blackstone variety chips (crusher broken)	Same as total earth work				62.5	cu.m	4162.00	260125.00
3	Supplying 7 ply galvanised strand wire 19 gauge fitted and fixed complete with necessary eyes, hooks and straining bolts (excluding the cost of straining bolts.) According to PWD Schedule, 2017Page-221/lt. no-6	7	1500				mtr	34.00	357000.00
4	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 diabinders @ 200 mm centres, finished smooth etc., complete. According to PWD Schedule, 2017Page-223/lt. no-15	500						432.00	216000.00

5	Labour for fitting wove wire or similar fencing net tightening and fixing the same to post with staples at every bar (including the cost of cutting and lapping joints in the net, the cost of staples, binding wire etc. and of labour for fixing such staples as necessary). According to PWD Schedule, 2017Page-221/lt. no-6									
	(b) Net above 1350 mm. height		1500			1500	mtr	12.42	18630.00	
6	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. According to PWD Schedule, 2017Page-1/lt. no-2(a) for Cattle Trench.									
	Average Wide = (2 mtr. + 1 mtr.) / 2 = 1.5mtr.	1	1500	1.5	1	2250	%cu.m	11927.00	268357.50	
Total Amount Rs.									1127566.88	
GST									18%	202962.04
Total Amount Rs.									1330528.91	
Labour Welfare Cess									1%	13305.29
Total Amount Rs.									1343834.20	
Add Contingency WITH IN									3%	39915.87
Grand Total Rs.									1383750.07	
Say Rs.									1383750.00	


Rupees Thirteen Lakh Eighty Three Thousand Seven hundred Fifty only.

Prepared By

 Range Officer
 Attached Forest Range
 Bankura (South) Division

Checked By

 Asst. Div. Forest Officer
 Bankura (S) Division

Verified By

 Divisional Forest Officer
 Bankura (South) Division


 Chief Conservator of Forests
 Central Circle, West Bengal

SI No	Description of items.	Quantity	Unit	Rate per Unit(Rs)	Amount (Rs)
				B/F	20188.23
5	(B) SUPERSTRUCTURE[Rate from PWD SW schdule 2017 Page no-15 Item -8(b) ; 3rd Corri Page no-1, Sl. No-4] Parapet	12.00 X 0.25 X 0.90 = 2.700 Cum			
		= 2.700 Cum	2.700	Cum	4728.00
6	Hire & labour charges for wooden shuttering including fitting fixing & striking out after completion of work 25 mm. Th. Shuttering. [Rate from PWD SW schdule 2017 Page - 42; Item No. - 36(a)] Column base- Tie Beam at GL Tie Beam Bottom Wall Beam Roof Slab	4 X(1.5 X 4.00 X) 0.30 = 7.200 Sqm 1 X 2 X 12.00 X 0.375 = 9.000 Sqm 1 x 12 x 0.375 4.500 Sqm 1 x 2 X 12.00 X 0.30 = 7.200 Sqm 1 X 3.000 X 3.000 = 9.000 Sqm			
		Total = 36.900 Sqm	36.900	Sqm	321.00
7	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. A) Ground floor [Rate PWD SW schdule 2017 Page-26 Item -10(iv) ; 3rd Corri Page no-13, Sl. No-33] A) Ground floor Column base- Column Above 4.5 m column Tie Beam at GL Wall beam Roof Slab	4 X 1.50 X 1.50 X 0.20 = 1.800 Cum. 4X(((1.5x1.5)+(.250x.250)+v(.250*.250*(1.5* 1.5).25/3)) = 0.980 Cum. 4 X 0.375 X 0.375 X 4.50 = 2.530 Cum. 4 X 0.375 X 0.375 X 0.90 = 0.510 Cum. 2 x 12.00 X 0.375 X 0.375 = 3.380 Cum. 1 x 12.00 X 0.375 X 0.30 = 1.350 Cum. 3.000 X 3.000 X 0.15 = 1.350 Cum.			
		Total = 11.900 Cum.	11.900	Cum	4888.00
8	M.S. Re-inforcement for R.C. lintel , roof , beam etc.including bending ,placing binding with black anealed wire etc complete as per direction of Engg in charge. II. JSW/JSPL/SHYAM/ SRMB/BMASL/ELECROSTEEL/SSL or III. OTHER MANUFACTURERS NOT SPECIFIED [Rate from PWD SW schdule 2017 Page - 43; Item No. - 40(a)(i)(II); 10th corrigenda Sl.no-1,P-1] Column base Column Tie beam GL Wall beam Slab	1.800 Cum X 1.2% = 0.0216 Cum. 3.040 Cum X 1.0% = 0.0304 Cum. 3.380 Cum X 1.8% = 0.0608 Cum. 1 X 1.350 Cum X 1.8% = 0.0243 Cum. 1 X 1.350 Cum X 1.00% = 0.0135 Cum.			
		Total = 0.1506 Cum @ 7.85 MT per Cum = 1.182 MT	1.1822	M.T.	60003.00
				Total	70935.55
					173901.48

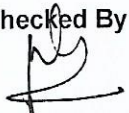
SI No	Description of items.	Quantity	Unit	Rate per Unit (R)	Amount (Rs)	
			B/F		180652.66	
9	15 mm. Th. Sand cement plaster (6:1) to outside walls [Rate from PWD SW schdule 2017 Page No.-189 Item -1(ii)(a) ; 3rd Corri Page no-50, Sl. No-1]					
	Ceiling	2 X	2.500 X	2.50 =	12.500 Sqm	
	Beam	2 X	10.000 X	1.25 =	25.000 Sqm	
	Column	4 X	1.000 X	7.00 =	28.000 Sqm	
	Parapet	2 X	10.00 X	0.60 =	12.000 Cum	
	stair case slab	4 x	2.70 x	1.05 =	11.340 Sqm	
	mid landing	4 x	2.70 x	1.50 =	16.200 Sqm	
	Trade & Riser	20 x	1.05 x	0.15 =	3.150 Sqm	
	canliver beam	4 x	2 x	1.05 x	0.375 =	3.150 Sqm
	Total =	111.340	Sqm	135.00	15030.90	
10	Net cement to plinth , dado etc. [Rate from PWD SW schdule 2017 Page no-192 Item no-15]					
	column	4 X	1.00 X	0.75 =	3.000 Sqm	
	plinth		2.50 X	2.50 =	6.250 Sqm	
	Trade & Riser	20 x	1.05 x	0.15	3.150 Sqm	
	Total =	12.400	Sqm	34.00	421.60	
11	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification. (Two coats.) [Rate from PWD SW schdule 2017 Page No. 197 Item -15]					
	From item no =	111.340	Sqm	49.00	5455.66	
	Total				201560.82	
12	Display board over wall with scheme photo	1.00	L.S	1500.00	1500.00	
	Total=				Rs. 203060.82	
	Total cost of Building Works = (A)				Rs. 203061.00	
	Add GST @ 18% on (A)= (B)				Rs. 36550.98	
	Total cost of Building Works including GST = (A)+(B)=(C)				Rs. 239611.98	
	Add Labour welfare cess @ 1% on (C) = (D)				Rs. 2396.12	
	Total cost of Building Works including GST & Cess = (C)+(D)=(E)				Rs. 242008.00	
	Add Contingency Charge @ 3% on (C) = (F)				Rs. 7188.36	
	TOTAL COST =(E)+(F)=(G)				Rs. 249196.00	

(RUPEES- TWO LAKH FOURTY NINE THOUSAND ONE HUNDRED NINETY SIX) ONLY.


Prepared BY

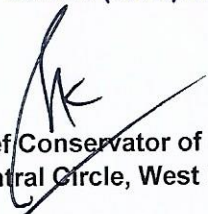

Range Officer
Attached Forest Range
Bankura (South) Division

Checked By


Asst. Div. Forest Officer
Bankura (S) Division

Verified By


Divisional Forest Officer
Bankura (South) Division


Chief Conservator of Forests
Central Circle, West Bengal

Estimate for 10 Yr. Maintenance of High Intensity Wildlife Fodder Tree Plantation (per Ha) Bankura (South) Divn.

Type of Plantation		High Intensity Fodder Tree Plantation including Bamboo				
No. of Seedlings per Ha.		1100				
Spacing per Ha.		3m X 3m				
Pit Size		60cm. X 45cm. X 45cm.				
Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
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3	Mulching	39(a)	1000 Nos	3984	1100 Nos.	4382.40
4	2nd Cleaning	38(b)	1 Ha	3415	1 Ha.	3415.00
5	Mulching	39(b)	1000 Nos	3415	1100 Nos.	3756.50
6	3rd Cleaning	38(c)	1 Ha	2846	1 Ha.	2846.00
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8	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1138	300 mtr.	3414.00
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10	Application of fertilizer and insecticide etc. including carriage including carriage	41	1000 Nos	569	1100 Nos.	625.90
11	Watering of Sal Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time	630	10 times	6300.00
12	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 4ft.			100	110 Nos.	11000.00
13	Material: c) Chemical Fertilisers	50(c)	1 MT	28750	0.16 MT.	4600.00
14	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	690	1 Ha.	690.00
15	Reparing of Barbed wire fencing					12000.00
A	Total					64655.00
B	Add GST (12% on A)					7759.00
C	A + B					72414.00
D	Add Cess (1% on Cess)					724.00
E	Add Contingency (3% on C)					2172.00
F	Grand Total (C+D+E)					75310.00

Prepared By  Range Officer
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Checked By  Asst. Div. Forest Officer
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Verified By  Divisional Forest Officer
 Bankura (South) Division

 Chief Conservator of Forests
 Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
2nd Year Maintenance						
1	Vacancy infilling of pits with new seedling wherever there is mortality due to abiotic and biotic factors	40	100 Nos	470	110 Nos.	517.00
2	1st Cleaning	38(a)	1 Ha	4382	1 Ha.	4382.00
3	Mulching	39(a)	1000 Nos	4382	1100 Nos.	4820.20
4	2nd Cleaning	38(b)	1 Ha	3757	1 Ha.	3757.00
5	Mulching	39(b)	1000 Nos	3757	1100 Nos.	4132.70
6	3rd Cleaning	38(c)	1 Ha	3131	1 Ha.	3131.00
7	Mulching	39(b)	1000 Nos	3757	1100 Nos.	4132.70
8	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1252	300 mtr.	3756.00
9	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	3757	1 Ha.	3757.00
10	Application of fertilizer and insecticide etc. including carriage including carriage	41	1000 Nos	626	1100 Nos.	688.60
11	Watering of Sal Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time	693	10 times	6930.00
12	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 4ft.			110	70 Nos.	7700.00
13	Material: c) Chemical Fertilisers	50(c)	1 MT	31625	0.16 MT.	5060.00
14	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	759	1 Ha.	759.00
15	Reparing of Barbed wire fencing					17000.00
A	Total					70523.00
B	Add GST (12% on A)					8463.00
C	A + B					78986.00
D	Add Cess (1% on Cess)					790.00
E	Add Contingency (3% on C)					2370.00
F	Grand Total (C+D+E)					82146.00

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Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
3rd Year Maintenance						
1	Vacancy infilling of pits with new seedling wherever there is mortality due to abiotic and biotic factors	40	100 Nos	517	110 Nos.	568.70
2	1st Cleaning	38(a)	1 Ha	4820	1 Ha.	4820.00
3	Mulching	39(a)	1000 Nos	4820	1100 Nos.	5302.00
4	2nd Cleaning	38(b)	1 Ha	4133	1 Ha.	4133.00
5	Mulching	39(b)	1000 Nos	4133	1100 Nos.	4546.30
6	3rd Cleaning	38(c)	1 Ha	3444	1 Ha.	3444.00
7	Mulching	39(b)	1000 Nos	4133	1100 Nos.	4546.30
8	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1377	300 mtr.	4131.00
9	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	4133	1 Ha.	4133.00
10	Application of fertilizer and insecticide etc. including carriage including carriage	41	1000 Nos	689	1100 Nos.	757.90
11	Watering of Sal Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time	762	10 times	7620.00
12	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 4ft.			121	50 Nos.	6050.00
13	Material: c) Chemical Fertilisers	50(c)	1 MT	34788	0.16 MT.	5566.08
14	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	835	1 Ha.	835.00
15	Reparing of Barbed wire fencing					20000.00
A	Total					76453.00
B	Add GST (12% on A)					9174.00
C	A + B					85627.00
D	Add Cess (1% on Cess)					856.00
E	Add Contingency (3% on C)					2569.00
F	Grand Total (C+D+E)					89052.00

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Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
4th Year Maintenance						
1	1st Cleaning	38(a)	1 Ha	5302	1 Ha.	5302.00
2	2nd Cleaning	38(b)	1 Ha	4546	1 Ha.	4546.00
3	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1515	300 mtr.	4545.00
4	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	4546	1 Ha.	4546.00
5	Reparing of Barbed wire fencing					20000.00
A	Total					38939.00
B	Add GST (12% on A)					4673.00
C	A + B					43612.00
D	Add Cess (1% on Cess)					436.00
E	Add Contingency (3% on C)					1308.00
F	Grand Total (C+D+E)					45356.00

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Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
5th Year Maintenance						
1	1st Cleaning	38(a)	1 Ha	5832	1 Ha.	5832.00
2	2nd Cleaning	38(b)	1 Ha	5001	1 Ha.	5001.00
3	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1667	300 mtr.	5001.00
4	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	5001	1 Ha.	5001.00
5	Reparing of Barbed wire fencing					20000.00
A	Total					40835.00
B	Add GST (12% on A)					4900.00
C	A + B					45735.00
D	Add Cess (1% on Cess)					457.00
E	Add Contingency (3% on C)					1372.00
F	Grand Total (C+D+E)					47564.00

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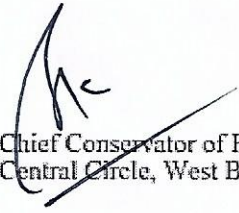
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 Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
6th Year Maintenance						
1	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	1834	300 mtr.	5502.00
2	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	5501	- 1 Ha.	5501.00
3	Reparing of Barbed wire fencing					20000.00
A	Total					31003.00
B	Add GST (12% on A)					3720.00
C	A + B					34723.00
D	Add Cess (1% on Cess)					347.00
E	Add Contingency (3% on C)					1042.00
F	Grand Total (C+D+E)					36112.00


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Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
7th Year Maintenance						
1	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	2017	300 mtr.	6051.00
2	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	6051	- 1 Ha.	6051.00
3	Reparing of Barbed wire fencing					20000.00
A	Total					32102.00
B	Add GST (12% on A)					3852.00
C	A + B					35954.00
D	Add Cess (1% on Cess)					360.00
E	Add Contingency (3% on C)					1079.00
F	Grand Total (C+D+E)					37393.00

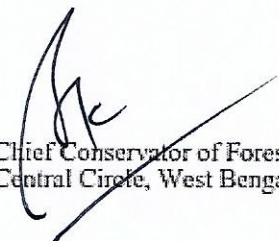
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Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
8th Year Maintenance						
1	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	2219	300 mtr.	6657.00
2	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	6656	1 Ha.	6656.00
3	Reparing of Barbed wire fencing					20000.00
A	Total					33313.00
B	Add GST (12% on A)					3998.00
C	A + B					37311.00
D	Add Cess (1% on Cess)					373.00
E	Add Contingency (3% on C)					1119.00
F	Grand Total (C+D+E)					38803.00

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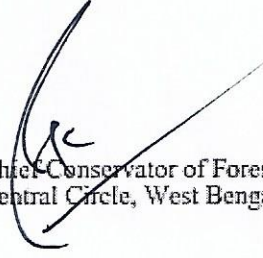
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Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
9th Year Maintenance						
1	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	2441	300 mtr.	7323.00
2	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	7322	1 Ha.	7322.00
3	Reparing of Barbed wire fencing					20000.00
A	Total					34645.00
B	Add GST (12% on A)					4157.00
C	A + B					38802.00
D	Add Cess (1% on Cess)					388.00
E	Add Contingency (3% on C)					1164.00
F	Grand Total (C+D+E)					40354.00

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 Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
10th Year Maintenance						
1	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scaroing, cutting of all existing weed growth to a width of 3m. Heaping, burning and reburning in younger plantations	44	100 mtr	2685	300 mtr.	8055.00
2	Providing watch and ward in the form of man days to oversee the plantation and protect the planation from damages arising out of biotic factors for the entire year	45	1 Ha	8054	1 Ha.	8054.00
3	Reparing of Barbed wire fencing					20000.00
A	Total					36109.00
B	Add GST (12% on A)					4333.00
C	A + B					40442.00
D	Add Cess (1% on Cess)					404.00
E	Add Contingency (3% on C)					1213.00
F	Grand Total (C+D+E)					42059.00

ABSTRACT				
Sl No	Particulars of Work	Area (in Ha)	Rate	Amount (Rs)
1	Creation Work	13.8	235852	32,54,758
2	1st Year Maint Work	13.8	75310	10,39,278
3	2nd Year Maint Work	13.8	82146	11,33,615
4	3rd Year Maint Work	13.8	89052	12,28,918
5	4th Year Maint Work	13.8	45356	6,25,913
6	5th Year Maint Work	13.8	47564	6,56,383
7	6th Year Maint Work	13.8	36112	4,98,346
8	7th Year Maint Work	13.8	37393	5,16,023
9	8th Year Maint Work	13.8	38803	5,35,481
10	9th Year Maint Work	13.8	40354	5,56,885
11	10th Year Maint Work	13.8	42059	5,80,414
12	CA Land Protection			13,83,750
13	Digging of Bour Well with Electric Pump			4,22,830
14	Construction of Over Head Tank			2,99,648
Total				1,27,32,242

Rupees One Crore Twenty Seven Lakh Thirty Two Thousand Two Hundred Forty Two

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 Central Circle, West Bengal

List of High Intensity Wildlife Fodder Trees Species

Sl. No.	Local Name	Scientific Name
1	Bel	<i>Agel marmelos</i>
2	Aam	<i>Mangifera indica</i>
3	Jam	<i>Acacia acuminata</i>
4	Jackfruit	<i>Artocarpus heterophyllus</i>
5	Banyan	<i>Ficus benghalensis</i>
6	Banana	<i>Musa sp.</i>
7	Date Palm	<i>Phoenix dactylifera</i>
8	Papaya	<i>Carica papaya</i>
9	Fig	<i>Ficus carica</i>
10	Guava	<i>Psidium guajava</i>
11	Phalsa	<i>Grewia subinaeualis</i>
12	Papra	<i>Gardenia latifolia</i>
13	Anch/ Noni	<i>Morinda tomentosa</i>
14	Haldi/ Bangab	<i>Diospyrus montana</i>
15	Gab	<i>Diospyrus malabaricum</i>
16	Kuchila	<i>Strychnos nux-vomica</i>
17	Lashora	<i>Cordia myxa</i>
18	Mohua	<i>Madhuca indica</i>
19	Deya Madar	<i>Atrocarpus lacucha</i>
20	Kanthal	<i>Atrocarpus hetrophyllus</i>
21	kalo Jam	<i>Syzygium cumini</i>
22	Pial	<i>Buchanania lanzan</i>
23	Kayet Bel	<i>Limonia acidissima</i>
25	Madre/ Sharang	<i>Gliricidia sepium</i>
26	Pituli (Female)	<i>Trewia nudiflora</i>
27	Kamala	<i>Mallothus phillippinensis</i>
28	Kul	<i>Ziziphus mauritiana</i>
29	Bat	<i>Ficus beghalensis</i>
30	<u>Kamarup</u>	<i>Ficus mollis</i>
31	Aswathha	<i>Ficus religiosa</i>
32	Peepul	<i>Ficus rumphii</i>
33	Chinese banayan	<i>Ficus microcarpa</i>
34	White Fig	<i>Ficus virens</i>
35	Dumur	<i>Ficus hispida</i>
36	Jagnya Dumur	<i>Ficus racemosa</i>

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