

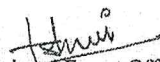
**Site Inspection Report of Divisional Forest Officer, Burdwan Division in respect of proposal for  
diversion of 13.6575 ha. of Forest Land in favour of M/s. ESSAR Oil & Gas Exploration and  
Production Ltd., Durgapur**

The undersigned inspected the forest land in different areas in the mouzas of Bandra, Bistupur, Molandighi, Keshabpur, Akandara, Tilakchandrapur, Saraswatiganj & Rajkusum under Durgapur Range of this Division involved in the proposal submitted by ESSAR Oil & Gas Exploration and Production Ltd., Durgapur for diversion of forest land of 13.6575 ha. in connection with drilling 19 well pads, construction of approach road to the well pads including laying of pipeline within forest area for their CBM Gas Project and examined the factual details and feasibility of the proposals, verified the maps etc. and found that –

1. This proposal involves forest land of 13.6575 ha. [ Land Area of Well Pad (in ha)- 8.76, Land Area of Pipeline(1m width)- 0.136 ha, Land Area of 5 M width Approach Road (in ha)- 4.7615] in 8 mouzas under Burdwan Division for drilling of 19 well pads, construction of approach road to the well pads including laying of pipeline. As the proposal involves surface use of forest land for laying of pipelines and approach road, the user agency should keep their well size to a minimum area and forest land involvement to minimise for approach road.
2. This proposal proposes felling of 8554 nos [In Shibpur Beat 778 nos, In Molandighi Beat 4795 nos, In Gopalpur Beat 2981 nos] of trees in forest area which includes Sal and associated species like mahua, pial etc. predominating sal. Out of the total area proposed for diversion, well pad number EDI 339, EDI 345, EDI 347 are having dense sal forest and is rich in bio-diversity and felling of trees should be kept to minimum as much as possible.
3. All the proposed well sites are located inside forest land, the access to the well sites through forest approach roads/paths is unavoidable. The approach roads, have been planned using existing inspection paths and its branches. However widening of the existing inspection paths is required to allow the movement of heavy vehicles and machinery towards well pads. Three approach roads namely (EDE-307, EDE-127, EDN-132) have been proposed to approach well pads in Non-forest areas. Whereas no other alternate route is available to access these well pads. However, it may be avoided, if possible. The user agency should ensure minimizing the felling of trees along the approach road. No new construction of approach road may be allowed in any way.
4. During inspection it has been observed that mouza Bistupur, J.L. No. 44 is vulnerable to soil erosion and requires soil moisture conservation work. As maximum forest land proposed for diversion is within this mouza, the user agency should submit a concrete Soil Moisture Conservation Plan with a view to ensure efficient management of the habitat.
5. Endangered/Unique species of flora and fauna are present in the area proposed for diversion. The area proposed for diversion has the presence of faunal species viz. Grey Indian Wolf, Jackal, Civet Cat, Indian Fox, Hare, Pangolin, Porcupine, Pea-fowl, Indian Rock Python, Monitor Lizard and several species of snakes. The user agency should submit a concrete Wildlife Management Plan in order to ensure efficient management of the habitat.
6. The user agency should reduce number of felling of trees as the area is a significant carbon absorber in the surrounding industrial belts of Durgapur and Panagarh.
7. No protected archaeological/heritage site, defence establishment or any other important monument is located in these areas.

The undersigned also examined all alternatives in the field and found the forest land proposed for diversion for such Project is unavoidable scientifically and barest minimum of the requirement.

Hence, the proposal is recommended for acceptance subjected to review at higher level.

  
Divisional Forest Officer  
Burdwan Division.

## Revised PART –II

State Serial No of the Proposal: WB-017/2022

### 1. Location of the Project / Scheme : West Bengal

- i. State/ Union Territory : West Bengal
- ii. District : PaschimBardhaman
- iii. Forest Division : Budwan, Durgapur
- iv. Are of Forest Land Proposed for Diversion ( in ha) : 12.5492
- v. Category of the Proposal: Others

### 2. Legal Status of Forest land proposed for Diversion

S. N.	Division	Forest land (ha.)	Legal Status
1.	Burdwan	10.3750	Protected Forest
2.	Durgapur	2.1742	Protected Forest
Total		12.5492	

Division 1: Burdwan

### 3. District wise are to be diverted in the division

S. N.	District	Area ( ha.)
1.	PaschimBardhaman	10.3750
Total		10.3750

### 4. Details of Vegetation available in the forest land proposed for diversion

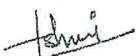
#### i. Density of vegetation

S. N.	Area ( in ha)	Density	Eco-Class
1.	10.3750	85	Eco 2
Total	10.3750		

#### ii. Species-wise local/ scientific names and girth –wise enumeration of trees at FRL

S. NO.	SCIENTIFIC NAME	LOCAL NAME	(0-30) Cm	(31- 60)Cm	(61-90) Cm	(91- 120) Cm	(121- 150) Cm	>150 Cm
1	Others	Aarora	2	3	2			
2	SpondiasMombin	Amra			1	1		
3	Terminalia Arjuna	Arjun		1	1	1		
4	Aegle Marmelos	Bael	1	6	1			
5	DilleniaIndica	Chalta		3	1			

S. NO.	SCIENTIFIC NAME	LOCAL NAME	(0-30) Cm	(31- 60)Cm	(61-90) Cm	(91- 120) Cm	(121- 150) Cm	>150 Cm
6	Magnolia Champaca	Chapa		1				
7	Eucalyptus Globulus	Eucalyptus	13	32	12	2		1
8	ArtocarpusAltilis	Kathal	1	1				
9	MadhucaLongifolia	Mahua	96	111	18	1		1
10	MangiferaIndica	Mango	1					
11	Others	Murugan	4	8				
12	AzadirachtaIndica	Neem		2	1			
13	Butea Monosperma	Palas			1			
14	BuchananiaLanzan	Pial	198	119	6			
15	Shorea Robusta	Sal	2201	1625	365	56	8	2
16	BombaxCeiba	Simul		1	1			
17	Acacia Auriculiformis	Sonajhuri	31	25	11	3	1	1
18	Others	Unidentified	1	1				
Total			2549	1939	421	64	9	5
Sub Total ( No of Trees.)			4987					

  
 Divisional Forest Officer  
 Burdwan Division

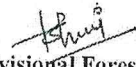
**Revised Site Inspection Report of Divisional Forest Officer, Burdwan Division in respect of proposal for diversion of 10,3750 ha. of Forest Land in favour of M/s. ESSAR Oil & Gas Exploration and Production Ltd., Durgapur**

In view of revised joint site inspection report of Chief Conservator of Forests, South-East Circle, WB with DFO/Burdwan Division; DFO/Durgapur Division and other field officers of Burdwan & Durgapur Divisions vide No. 2822/SEC/2M-10 (ESSAR) dated 13.09.2022, the undersigned re- inspected the forest land in different areas in the mouzas of Bandra, Bistupur, Molandighi, Keshabpur, Akandara, Tilakchandrapur, Saraswatiganj & Rajkusum under Durgapur Range of this Division involved in the proposal submitted by ESSAR Oil & Gas Exploration and Production Ltd., Durgapur for diversion of reduced forest land of 10,3750 ha. in connection with drilling reduced to 14 well pads, construction of approach road to the well pads including laying of pipeline within forest area for their CBM Gas Project and examined the factual details and feasibility of the proposals, verified the maps etc. and found that –

1. This proposal involves forest land of 10,3750 ha. [ Land Area of Well Pad (in ha)- 6,4200, Land Area of Pipeline(1m width) and Land Area of 5 M width Approach Road (in ha)- 3,9550 ] in 8 mouzas under Burdwan Division for drilling of 14 well pads, construction of approach road to the well pads including laying of pipeline. As the proposal involves surface use of forest land for laying of pipelines and approach road, the user agency should keep their well size to a minimum area and forest land involvement to minimise for approach road.
2. This revised proposal proposes felling of 4987 nos [In Shibpur Beat -778 nos, in Molandighi Beat – 1228 nos, in Gopalpur Beat - 2981 nos] of trees in forest area which includes Sal and associated species like mahua, pial, eucalyptus, sonajhuri etc. predominating sal.
3. All the proposed well sites are located inside forest land, the access to the well sites through forest approach roads/paths is unavoidable. The approach roads, have been planned using existing inspection paths and its branches. However widening of the existing inspection paths is required to allow the movement of heavy vehicles and machinery towards well pads. Three approach roads namely (EDE-307, EDE-127, EDN-132) have been proposed to approach well pads in Non-forest areas and no other alternate route is available to access these well pads.
4. During inspection it has been observed that mouza Bistupur, J.L. No. 44 is vulnerable to soil erosion and requires soil moisture conservation work. As maximum forest land proposed for diversion is within this mouza, the user agency should submit a concrete Soil Moisture Conservation Plan with a view to ensure efficient management of the habitat.
5. Endangered/Unique species of flora and fauna are present in the area proposed for diversion. The area proposed for diversion has the presence of faunal species viz. Grey Indian Wolf, Jackal, Civet Cat, Indian Fox, Hare, Pangolin, Porcupine, Pea-fowl, Indian Rock Python, Monitor Lizard and several species of snakes. The user agency should submit a concrete Wildlife Conservation Plan in order to ensure efficient management of the habitat.
6. No protected archaeological/heritage site, defence establishment or any other important monument is located in these areas.

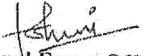
The undersigned also examined all alternatives in the field and found the forest land of 10,3750 ha. proposed for diversion for such Project is unavoidable scientifically and barest minimum of the requirement.

Hence, the proposal is recommended for acceptance subjected to review at higher level.

  
**Divisional Forest Officer  
Burdwan Division.**

NPV calculation as per chapter 3 (Net Present Value) Point No.3.4 (NPV Rates) of Forest (Conservation) Act, 1980 & Forest (Conservation) Rules, 2003 (Guidelines & Clarifications) of Ministry of Environment, Forest and Climate Change, Government of India, 2022.

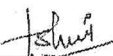
Forest Type	Land Area (ha.)	Classification	Rate per ha.	Total NPV
Dense Forest	10.3750	Dry deciduous forest, Eco- Class- II	Rs.15,95,790.00	Rs.1,65,56,321.25

  
Divisional Forest Officer  
Burdwan Division

**Recommendation Report of Divisional Forest Officer, Burdwan Division in respect of proposal for diversion of 10.3750 ha. of Forest Land in favour of Essar Oil and Gas Exploration and Production Limited, Durgapur.**

The proposal for diversion of forest land submitted by Essar Oil and Gas Exploration and Production Limited, Durgapur as detailed below is recommended for acceptance at this stage subject to review at higher level.

SL No	Pad Name	Mouza	Area Proposed for Diversion (Wellpad + Approach Road + Pipeline) (in Ha)
1	EDH-356		
2	EDN-360	Akandara	0.7735
3	EDN-361	Bandra	0.4200
4	EDE-326	Bandra	0.4350
5	EDE-330	Bistupur	0.4465
6	EDE-333	Bistupur	0.6000
7	EDI-338	Bistupur	0.7940
8	EDI-343	Bistupur	0.4260
9	EDN-348	Bistupur	1.4540
10	EDN-349	Keshabpur	0.8500
11	EDN-363	Keshabpur	0.7475
12	EDI-355	Keshabpur	0.4200
13		Malandighi	0.6875
	EDN-362	Rajkusum	0.4160
14	EDN-358	TilakChandrapur	0.1440
		TilakChandrapur	0.6800
15	EDN-132 & 360 (pipeline)	Bandra	0.856
16	EDE-307 Approach Road	Bistupur	0.1075
17	EDE-127 Approach Road	Bistupur	0.0705
		Saraswatiganj	0.0470
TOTAL AREA BURDWAN DIVISION			10.3750

  
 Divisional Forest Officer  
 Burdwan Division



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



**Memo. No.** 1208/3A-1

**Dated:** 21/10/2022

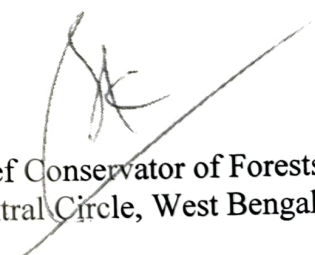
**To :** The Addl. Principal Chief Conservator of Forest & Nodal Officer,  
Forest Conservation Act, West Bengal.

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

**Ref :** Your good Office *memo. no.* 5806/L&LT/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 10<sup>th</sup> 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

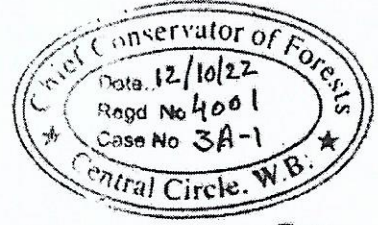
12.10.22



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](http://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 scarroing, 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 <sup>3</sup>	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		Qty/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,  
3<sup>rd</sup> Floor, (Phase- I), Webel IT Park,  
Gandhi More, Durgapur, West Bengal- 713208,  
E-mail: [ccfcc.f&wb@gov.in](mailto:ccfcc.f&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 .

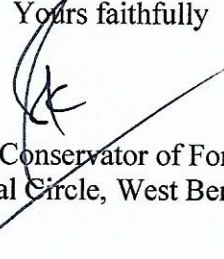
**Ref :** Your office memo No.5806/L&LT/2M-1081/2021 dated 12.09.2022.

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, 1<sup>st</sup> to 10<sup>th</sup> 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
7	Weeding and Cleaning of Seedlings per each time	12(ii)	1000 Nos	854	1210 Nos.	1033.34
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
18	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

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 <sup>3</sup>	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
<b>A</b>	<b>Total</b>					<b>202483</b>
<b>B</b>	<b>Add GST (12% on A)</b>					<b>24298</b>
<b>C</b>	<b>A + B</b>					<b>226780</b>
<b>D</b>	<b>Add Cess (1% on Cess)</b>					<b>2268</b>
<b>E</b>	<b>Add Contingency (3% on C)</b>					<b>6803</b>
<b>F</b>	<b>Grand Total (C+D+E)</b>					<b>235852</b>

Prepared By

Checked By

Verified By

TSZ.  
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. <b>According to PWD Schedule, 2017Page-1/lt. no-2(a)</b>	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. <b>According to PWD Schedule, 2017Page-24/lt. no-4 (a)(d)</b>								
	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.) <b>According to PWD Schedule, 2017Page-221/lt. no-6</b>	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. <b>According to PWD Schedule, 2017Page-223/lt. no-15</b>	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). <b>According to PWD Schedule, 2017Page-221/lt. no-6</b>								
	(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. <b>According to PWD Schedule, 2017Page-1/lt. no-2(a)</b> 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



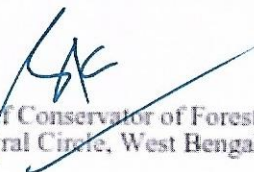
Asst. Div. Forest Officer  
Bankura (S) Division

Verified By



Divisional Forest Officer  
Bankura (South) Division

Chief Conservator of Forests  
Central Circle, West Bengal



[illegible]

20188.23

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 $12.00 \times 0.25 \times 0.90 = 2.700 \text{ Cum}$ $= 2.700 \text{ Cum}$	2.700	Cum	4728.00	12765.60
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- $4 \times (1.5 \times 4.00 \times 0.30) = 7.200 \text{ Sqm}$ Tie Beam at GL $1 \times 2 \times 12.00 \times 0.375 = 9.000 \text{ Sqm}$ Tie Beam Bottom $1 \times 12 \times 0.375 = 4.500 \text{ Sqm}$ Wall Beam $1 \times 2 \times 12.00 \times 0.30 = 7.200 \text{ Sqm}$ Roof Slab $1 \times 3.000 \times 3.000 = 9.000 \text{ Sqm}$  Total = 36.900 Sqm	36.900	Sqm	321.00	11844.90
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- $4 \times 1.50 \times 1.50 \times 0.20 = 1.800 \text{ Cum.}$ $4 \times (((1.5 \times 1.5) + (.250 \times .250) + (.250 \times .250 \times (1.5 \times 1.5) \times .25 / 3)) = 0.980 \text{ Cum.}$ Column $4 \times 0.375 \times 0.375 \times 4.50 = 2.530 \text{ Cum.}$ Above 4.5 m column $4 \times 0.375 \times 0.375 \times 0.90 = 0.510 \text{ Cum.}$ Tie Beam at GL $2 \times 12.00 \times 0.375 \times 0.375 = 3.380 \text{ Cum.}$ Wall beam $1 \times 12.00 \times 0.375 \times 0.30 = 1.350 \text{ Cum.}$ Roof Slab $3.000 \times 3.000 \times 0.15 = 1.350 \text{ Cum.}$  Total = 11.900 Cum.	11.900	Cum	4888.00	58167.20
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 $1.800 \text{ Cum} \times 1.2\% = 0.0216 \text{ Cum.}$ Column $3.040 \text{ Cum} \times 1.0\% = 0.0304 \text{ Cum.}$ Tie beam GL $3.380 \text{ Cum} \times 1.8\% = 0.0608 \text{ Cum.}$ Wall beam $1 \times 1.350 \text{ Cum} \times 1.8\% = 0.0243 \text{ Cum.}$ Slab $1 \times 1.350 \text{ Cum} \times 1.00\% = 0.0135 \text{ Cum.}$ Total = 0.1506 Cum @ 7.85 MT per Cum = 1.182 MT	1.1822	M.T.	60003.00	70935.55
			Total		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, SI. No-1]  <div> <div>Ceiling</div> <div>2 X</div> <div>2.500 X</div> <div>2.50 =</div> <div>12.500 Sqm</div> </div> <div> <div>Beam</div> <div>2 X</div> <div>10.000 X</div> <div>1.25 =</div> <div>25.000 Sqm</div> </div> <div> <div>Column</div> <div>4 X</div> <div>1.000 X</div> <div>7.00 =</div> <div>28.000 Sqm</div> </div> <div> <div>Parapet</div> <div>2 X</div> <div>10.00 X</div> <div>0.60 =</div> <div>12.000 Cum</div> </div> <div> <div>stair case slab</div> <div>4 x</div> <div>2.70 x</div> <div>1.05 =</div> <div>11.340 Sqm</div> </div> <div> <div>mid landing</div> <div>4 x</div> <div>2.70 x</div> <div>1.50 =</div> <div>16.200 Sqm</div> </div> <div> <div>Trade &amp; Riser</div> <div>20 x</div> <div>1.05 x</div> <div>0.15 =</div> <div>3.150 Sqm</div> </div> <div> <div>canliver beam</div> <div>4 x</div> <div>2 x</div> <div>1.05 x</div> <div>0.375 =</div> <div>3.150 Sqm</div> </div>				
	<b>Total = 111.340 Sqm</b>	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]  <div> <div>column</div> <div>4 X</div> <div>1.00 X</div> <div>0.75 =</div> <div>3.000 Sqm</div> </div> <div> <div>plinth</div> <div></div> <div>2.50 X</div> <div>2.50 =</div> <div>6.250 Sqm</div> </div> <div> <div>Trade &amp; Riser</div> <div>20 x</div> <div>1.05 x</div> <div>0.15</div> <div>3.150 Sqm</div> </div>				
	<b>Total = 12.400 Sqm</b>	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 ]  <div> <div>From item no =</div> <div>111.340 Sqm</div> </div>	111.340	Sqm	49.00	5455.66
	<b>Total</b>				<b>201560.82</b>
12	Display board over wall with scheme photo	1.00	L.S	1500.00	1500.00
	<b>Total=</b>				<b>Rs. 203060.82</b>
	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
	<b>TOTAL COST =( E)+(F)=(G)</b>				<b>Rs. 249196.00</b>

**( 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.)
<b>1st Year Maintenance</b>						
1	Vacancy infilling of pits with new seedling wherever there is mortality due to abiotic and biotic factors	40	100 Nos	427	110 Nos.	469.70
2	1st Cleaning	38(a)	1 Ha	3984	1 Ha.	3984.00
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
7	Mulching	39(b)	1000 Nos	3415	1100 Nos.	3756.50
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
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	3415	1 Ha.	3415.00
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	<b>Total</b>					<b>64655.00</b>
B	<b>Add GST (12% on A)</b>					<b>7759.00</b>
C	<b>A + B</b>					<b>72414.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>724.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>2172.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>75310.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>2nd Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>70523.00</b>
B	<b>Add GST (12% on A)</b>					<b>8463.00</b>
C	<b>A + B</b>					<b>78986.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>790.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>2370.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>82146.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>3rd Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>76453.00</b>
B	<b>Add GST (12% on A)</b>					<b>9174.00</b>
C	<b>A + B</b>					<b>85627.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>856.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>2569.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>89052.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>4th Year Maintenance</b>						
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	<b>Total</b>					<b>38939.00</b>
B	<b>Add GST (12% on A)</b>					<b>4673.00</b>
C	<b>A + B</b>					<b>43612.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>436.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1308.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>45356.00</b>

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

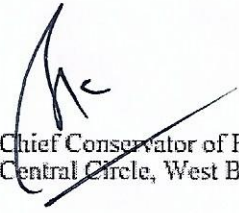
  
 Chief Conservator of Forests  
 Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>5th Year Maintenance</b>						
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	<b>Total</b>					<b>40835.00</b>
B	<b>Add GST (12% on A)</b>					<b>4900.00</b>
C	<b>A + B</b>					<b>45735.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>457.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1372.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>47564.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>6th Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>31003.00</b>
B	<b>Add GST (12% on A)</b>					<b>3720.00</b>
C	<b>A + B</b>					<b>34723.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>347.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1042.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>36112.00</b>


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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>7th Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>32102.00</b>
B	<b>Add GST (12% on A)</b>					<b>3852.00</b>
C	<b>A + B</b>					<b>35954.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>360.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1079.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>37393.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>8th Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>33313.00</b>
B	<b>Add GST (12% on A)</b>					<b>3998.00</b>
C	<b>A + B</b>					<b>37311.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>373.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1119.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>38803.00</b>

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

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>9th Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>34645.00</b>
B	<b>Add GST (12% on A)</b>					<b>4157.00</b>
C	<b>A + B</b>					<b>38802.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>388.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1164.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>40354.00</b>

Prepared By   
Range Officer  
Attached Forest Range  
Bankura (South) Division

Checked By   
Asst. Div. Forest Officer  
Bankura (S) Division

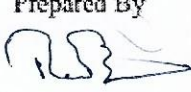


Verified By   
Divisional Forest Officer  
Bankura (South) Division

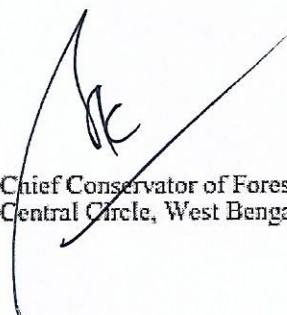
  
Chief Conservator of Forests  
Central Circle, West Bengal

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
<b>10th Year Maintenance</b>						
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 scarroing, 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	<b>Total</b>					<b>36109.00</b>
B	<b>Add GST (12% on A)</b>					<b>4333.00</b>
C	<b>A + B</b>					<b>40442.00</b>
D	<b>Add Cess (1% on Cess)</b>					<b>404.00</b>
E	<b>Add Contingency (3% on C)</b>					<b>1213.00</b>
F	<b>Grand Total (C+D+E)</b>					<b>42059.00</b>

<b>ABSTRACT</b>				
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
<b>Total</b>				<b>1,27,32,242</b>

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

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

  
 Chief Conservator of Forests  
 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>

Prepared By  Range Officer  
 Attached Forest Range  
 (South) Division

Checked By  Asst. Div. Forest Officer  
 (South) Division

Verified By  Divisional Forest Officer  
 (South) Division

 Chief Conservator of Forests  
 Central Circle, West Bengal