

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- 316 / 15

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Dated, Bankura, the 12/02/2024

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

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

Sub :: Submission of estimate for CA land proposal.

Sir,

With reference to the above mentioned subject, enclosed please find herewith the estimate for Creation of CA planation (per Ha) 2023-24 for Mouza- Anandapur, JL No.-19, Area in acre – 8.98 & Mouza – Bankadaha, JL No.- 27, Area in acre – 9.20 under Bankura (North) Division.

This is for your kind perusal.

Enclosed : As stated above.

Divisional Forest Officer,
Bankura (North) Division.

Memo. No- _____ / 15

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Dated, Bankura, the / / 2024

Copy to :-

1. The Addl. Principal Chief Conservator of Forests & Nodal Officer, Forest Conservation Act.
2. The Chief Conservator of Forests, Forest Conservation Act.

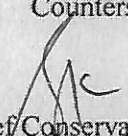
Sd/- UMAR IMAM, I.F.S.
Divisional Forest Officer,
Bankura (North) Division.

Estimate for Creation of CA Plantation (per Ha) 2023-24

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>						
Bel		<i>Aegle marmelos</i> Linn, Corrz						
Chalta		<i>Dillenia indica</i>						
Bat		<i>Ficus bengalensis</i> Linn						
Dumur		<i>Ficus hispida</i> L						
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>						
Tetul		<i>Tamarindus indica</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 (0.60m x 0.60m x 1m)	31(b)	1	Ha	25000	1	Ha	25000
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 in Hycopot/ root trainers per each time	12(ii)	1000	Nos	854	1210	Nos.	1033.34
8	Watering of seedlings in Hycopot 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	10000	1	Ha.	10000
11	Transplanting of Hycopot 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 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 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
19	Watering of Plantation indry season: Cost for watering during summer months and dry spell every 15days once per time	48(b)	Ha per time		2000	8	times	16000

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	Material: a) Farm Yard Manure- ii) Sal 8m ³	50(a)(ii)	1	Ha	9200	0.6	Ha.	5520
22	Material: c) Chemical Fertilisers	50(c)	1	MT	28750	0.08	MT.	2300
23	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1	Ha	690	1	Ha.	690
24	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
25	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
26	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
27	Maintenance Work for 10 yrs		Qty/MD		Year		Rate	Amount (Rs.)
i)	Vacancy infilling & inluding carriage		5		5		312	7800
ii)	1st time weeding cleaning & mulching		10		10		312	31200
iii)	2nd time weeding cleaning & mulching		8		8		312	19968
iii)	3rd time weeding cleaning & mulching		6		5		312	9360
iv)	Repair of fencing		2		10		312	6240
v)	Cutting of Fire line 3 mtr. Wide & revoing the debris material to prevent fire		5		10		312	15600
vi)	Watch & Ward		10		10		312	31200
vii)	Watering for 1st 3 years		1		3		16000	48000
A	Total							2,78,357.80
	Per Ha Cost							2,78,357.80
	Cost for 3.72 Ha(9.20 acre)							10,35,491.00
B	Fixed Cost							
i)	Cost of Signage (one for each 10Ha or part thereof)	49	1	Ha	300	1	Ha.	300
ii)	Energized Power fencing line over 1.6 Km	46(b)	1.6	Km	200000			320000
C	Total cost for 3.72 Ha(9.20 acre)							13,55,791.00
D	Add GST (18% on C)							2,44,042.38
E	Total (C+D)							15,99,833.39
F	Add Cess (1% on Cess)							15,998.33
G	Add Contingency (3% on E)							47,995.00
	Grand Total (E+F+G)							16,63,826.72


 Divisional Forest Officer,
 Bankura (North) Division.

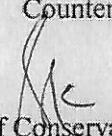
Countersign by

 Chief Conservator of Forests,
 Central Circle, Govt. of West Bengal.
 Chief Conservator of Forests
 Central Circle, West Bengal

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Bahera		<i>Terminalia belerica</i>						
Amla		<i>Emblica officinalis</i>						
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3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1	Ha	1483	1	Ha	1483
4	Pit cutting (0.60m x 0.60m x 1m)	31(b)	1	Ha	25000	1	Ha	25000
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22	Material: c) Chemical Fertilisers	50(c)	1	MT	28750	0.08	MT.	2300
23	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1	Ha	690	1	Ha.	690
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vi)	Watch & Ward		10		10		312	31200
vii)	Watering for 1st 3 years		1		3		16000	48000
A	Total							2,78,357.80
	Per Ha Cost							2,78,357.80
	Cost for 3.63 Ha(8.98 acre)							10,10,438.80
B	Fixed Cost							
i)	Cost of Signage (one for each 10Ha or part thereof)	49	1	Ha	300	1	Ha.	300
ii)	Energized Power fencing line over 1.6 Km	46(b)	1.6	Km	200000			320000
C	Total cost for 3.63 Ha(8.98 acre)							13,30,738.80
D	Add GST (18% on C)							2,39,532.98
E	Total (C+D)							15,70,271.79
F	Add Cess (1% on Cess)							15,702.72
G	Add Contingency (3% on E)							47,108.15
	Grand Total (E+F+G)							16,33,082.66


 Divisional Forest Officer,
 Bankura (North) Division.

Countersign by

 Chief Conservator of Forests,
 Central Circle, Govt. of West Bengal.
 Chief Conservator of Forests
 Central Circle, West Bengal

18/06/22
13.07.23



Important

Government of West Bengal
Directorate of Forests

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Memo. No- 1517 / 15

Dated, Bankura, the 12 / 06 / 2023

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 WBPDC.

Sir,

With reference to the above mentioned subject, enclosed please find herewith the estimate for Creation of CA planation (per Ha) 2023-24 under Bankura (North) Division.

This is for your kind perusal.

Enclosed : As stated above.

Divisional Forest Officer,
Bankura (North) Division.

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3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1	Ha	1483	1	Ha	1483
4	Pit cutting (0.60m x 0.60m x 1m)	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
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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 Hycopot 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 abiotic and biotic factors	40	100	Nos	427	110	Nos.	469.7
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	providing watch and ward in the form of man days to oversee the plantation and protect the plantation from damages arising out of biotic factors for the entire year	45	1	Ha	6830	1	Ha.	6830
	Material: a) Farm Yard Manure- ii) Sal 8m ³	50(a)(ii)	1	Ha	9200	0.6	Ha.	5520
	Material: c) Chemical Fertilisers	50(c)	1	MT	28750	0.08	MT.	2300
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26	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
27	Maintenance Work for 10 yrs			Qty/MD	Year	Rate		Amount (Rs.)
i)	Vacancy infilling & inluding carriage			5	5	294		7350
ii)	1st time weeding cleaning & mulching			10	10	294		29400
iii)	2nd time weeding cleaning & mulching			8	8	294		18816
iii)	3rd time weeding cleaning & mulching			6	5	294		8820
iv)	Repair of fencing			2	10	294		5880
v)	Cutting of Fire line 3 mtr. Wide & revoing the debris material to prevent fire			10	10	294		29400
vi)	Watch & Ward			20	10	294		58800
vii)	Watering for 1st 3 years			1	3	16000		48000
A	Total							3,07,772.80
	Per Ha Cost							3,07,772.80
	Cost for 81.94 Ha							2,52,18,902.99
B	Fixed Cost							
i)	Cost of Signage (one for each 10Ha or part thereof)	49	1	Ha	300	1	Ha.	300
ii)	Energized Power fencing line over 15 Km	46(b)	15	Km	200000			3000000
C	Total cost for 81.94 Ha							2,82,19,202.99
D	Add GST (18% on C)							50,79,456.54
E	Total (C+D)							3,32,98,659.52
F	Add Cess (1% on Cess)							3,32,986.60
G	Add Contingency (3% on E)							9,98,959.79
	Grand Total (E+F+G)							3,46,30,605.90

Divisional Forest Officer,
Bankura (North) Division.

Countersign by
Chief Conservator of Forests,
Central Circle, Govt. of West Bengal.

Estimate for Advance work of Tall Seeding for CA Plantation (per Ha) 2023-24
under Bankura (North) Division

Particulars of Work		Unit	Type	Rate (in Rs.)	Amount per hypocots/QPM/Seedling Rates of 2023-24
Advance Component					
1	Cost of making dry and sieved leaf compost inclusive of all costs	m ³	Material	3000	1.67
2	Cost of coarse Sand (Purchase/Collection, Carriage, Loading, unloading, drying & sieving all inclusive)	m ³	Material	900	0.50
3	Cost of Burnt Rice Husk/CDM/Vermicompost etc. (Purchase/Collection, Carriage, Loading, Unloading, drying & sieving all inclusive)	m ³	Material	1200	0.67
4	Preparation of potting mixture (mixing through hand driven Mixture Machine)	m ³	Labour	588	0.33
5	Disinfection of Root Trainers, Filling and keeping filled Root Trainers on Stands	For 1100 + 20% infilling = 1320 seedlings	Labour	588	0.33
6	Collection of quantity Seeds including collection and carriage		Material	380	0.21
7	Drying, shoring and Pre-treatment of seeds and showing in Hygro pits		Labour	294	0.16
8	Pricking out and transplanting of seedlings in Root Trainers		Labour	882	0.49
9	Supply of insecticides, fungicides, micronutrients, disinfectants etc.		Material	120	0.07
10	Supply of Sieving nets, water pipes/can etc.		Material	80	0.04
11	Watering for 90 days (January to March) including watering in Hygro pits and Spraying of insecticides		Labour	1176	0.65
12	Shoring-shifting, weeding-cleaning as and when required		Labour	588	0.33
13	Contingency				0.16
Cost of one seedlings/QPM (Departmental Rate in Rs.)					5.60
Cost of one seedlings/QPM (Tender Rate with 10% Contractor's profit)					6.16
GST (18%)					1.11
Labour Cess (1%)					0.07
Grand Total per QPM/Seedling (Tender Rate in Rs.)					7.33
SI No.	Particulars of Work	Unit	Physical Qnty.		
A	LABOUR COMPONENT (M.Days@ Rs.294/-)				
1	Sorting shifting weeding-Cleaning, forking, culling, watering and maintenance of seedlings in central nurseries for 12 months	MD	25		
2	Application of Bio-fertiliser, insecticides, Fungicides, Hormone, Micronutrients etc	MD	4		
3	Cost of Watch & Ward	MD	3		
	Total Mandays (Nos.)		32		
A1	Cost of Labour Component @ Rs.294/MD (Rs.)=	Rs.	9408		
B	MATERIAL COMPONENT (in Rs.)				
4	Cost of Oil Cake/ Biofertiliser, Compost for replenishment of hypocot seedlings/ Organic manure etc. (GST: NIL)	Rs.	1100		
5	Cost of insecticides, Fungicides, Micro-nutrients, Hormone etc.	Rs.	590		
B1	Total Material Cost	Rs.	1690		
C	Total (Labour+Materials) (A1+B1)		11098		
D	Add GST (18% on C)		1998		
E	Total Including GST (C+D)		13096		
F	Labour Welfare Cess (1% on C)		111		
G	Grand Total for maintenance of 1320 seedlings (Rs.)=		13207		
H	Cost of maintenance as per seedling=Rs. 13207/1320 seedlings=(Rs.)		10.005		
Or say					10.00

Divisional Forest Officer,
Bankura (North) Division.

Countersign by
Chief Conservator of Forests,
Central Circle, Govt. of West Bengal.



**GOVERNMENT OF WEST BENGAL
DIRECTORATE OF FORESTS
OFFICE OF THE DIVISIONAL FOREST OFFICER
BANKURA (SOUTH) DIVISION
PIN – 722101**



Phone No.:- 03242 – 250907, Fax No. :- 03242 – 252971, E-mail Address :- dfobans-wb@nic.in,
dfosouth.bks@gmail.com; Website :- www.bankuraforest.in

No. **785** / 2 – WBCAMPA

Dated, Bankura, the 08 / 06 / 2022

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

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

Sub : Submission of CA Land site suitability and CA plantation estimate in respect of Bankura (South) Division to diversion proposal of WBPDC.

Sir,

With reference to the subject mentioned above, I am sending herewith the detailed estimate for Creation work of High Intensity Wildlife Fodder Tree Plantation and CA Land Protection, undertaken in the following locations in respect of Bankura (South) Division for the diversion proposal No. of FP/WB/MIN/43000/2019 Barjora North Coal Mine of WBPDC for your kind information.

SL No.	Particulars of Work	Range	Beat	Mouza	Plot No.	Jl. No.	Area (in Ha)
01	Creation work of High Intensity Wildlife Fodder Tree Plantation and CA Land Protection	Khatra	Khatra-I	Kadambe ria	871	179	5.26

Encl: - As stated above.

Divisional Forest Officer
Bankura (South) Division

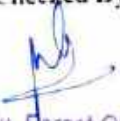
Estimate for Creation of High Intensity Wildlife Fodder Tree Plantation (per Ha) 2023-24

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 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

19	Watering of Wildlife Fodder Tree including Bamboo Plantation indry season: Cost for watering during summer months and dry spell every 3 days once per time for 4 month	48(b)	Ha per time	630	40 times	25200
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	Material: a) Farm Yard Manure- ii) Fodder Tree including Bamboo 8m ³	50(a)(ii)	1 Ha	9200	0.6 Ha.	5520
22	Material: c) Chemical Fertilisers	50(c)	1 MT	28750	0.08 MT.	2300
23	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	690	1 Ha.	690
24	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
25	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 5ft.			50	1210 Nos.	60500
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	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	Cost of Signage (one foe each 10Ha or part thereof)	49				200
A	Total					164378
B	Add GST (18% on A)					29588
C	A + B					193966
D	Add Cess (1% on Cess)					1940
E	Add Contingency (3% on C)					5819
F	Grand Total (C+D+E)					201724

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 CA LAND PROTECTION

Sl. No.	Particulars of Work	SoR Ref.	Unit	Rate	Quantity	Amount (Rs.)
1	Energized Power Fencing line over 2000 mtr.		1000 mtr	200	2000 mtr.	400000.00
A	Total including 18% GST					400000.00

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.)
	1st Year Maintenance					
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 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.	3414.00
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 7 days once per time for 4 month	48(b)	Ha per time	630	25 times	15750.00
12	Material: c) Chemical Fertilisers	50(c)	1 MT	28750	0.16 MT.	4600.00
13	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	690	1 Ha.	690.00
14	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 5ft.			50	110 Nos.	5500.00
15	Reparing of Energized Power Fencing					5000.00
A	Total					61605.00
B	Add GST (18% on A)					11089.00
C	A + B					72694.00
D	Add Cess (1% on Cess)					727.00
E	Add Contingency (3% on C)					2181.00
F	Grand Total (C+D+E)					75602.00

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.)
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 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 7 days once per time for 4 month	48(b)	Ha per time	630	25 times	15750.00
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
	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 5ft.			55	70 Nos.	3850.00
15	Reparing of Energized Power Fencing					5000.00
A	Total					63493.00
B	Add GST (18% on A)					11429.00
C	A + B					74922.00
D	Add Cess (1% on Cess)					749.00
E	Add Contingency (3% on C)					2248.00
F	Grand Total (C+D+E)					77919.00

Prepared By



 Range Officer
 Attached Forest Range
 Bankura (South) Division

Checked By

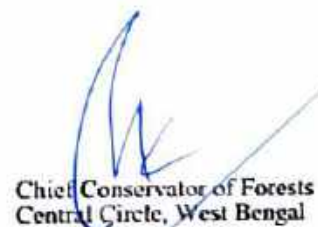


 Asst. Div. Forest Officer
 Bankura (S) Division

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.)
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 7 days once per time for 4 month	48(b)	Ha per time	630	25 times	15750.00
12	Material: c) Chemical Fertilisers	50(c)	1 MT	34788	0.16 MT.	5566.08
13	Material: b) Insecticides, fungicides (1ltr each/ha)	50(b)	1 Ha	835	1 Ha.	835.00
14	Purchase of 2 years old Fodder Tree species including Bamboo seedlings minimum of height 5ft.			58	50 Nos.	2900.00
15	Reparing of Energized Power Fencing					5000.00
A	Total					66433.00
B	Add GST (18% on A)					11958.00
C	A + B					78391.00
D	Add Cess (1% on Cess)					784.00
E	Add Contingency (3% on C)					2352.00
F	Grand Total (C+D+E)					81527.00

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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.)
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 scarroing, 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 Energized Power Fencing					5000.00
A	Total					23939.00
B	Add GST (18% on A)					4309.00
C	A + B					28248.00
D	Add Cess (1% on Cess)					282.00
E	Add Contingency (3% on C)					847.00
F	Grand Total (C+D+E)					29377.00

Prepared By

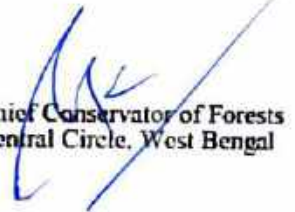
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Range Officer
Attached Forest Range
Bankura (South) Division


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.)
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 Energized Power Fencing					5000.00
A	Total					25835.00
B	Add GST (18% on A)					4650.00
C	A + B					30485.00
D	Add Cess (1% on Cess)					305.00
E	Add Contingency (3% on C)					915.00
F	Grand Total (C+D+E)					31705.00

Prepared By

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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.)
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 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 Energized Power Fencing					5000.00
A	Total					16003.00
B	Add GST (18% on A)					2881.00
C	A + B					18884.00
D	Add Cess (1% on Cess)					189.00
E	Add Contingency (3% on C)					567.00
F	Grand Total (C+D+E)					19640.00

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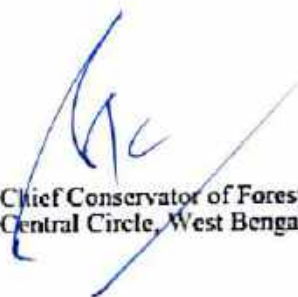
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Range Officer
Attached Forest Range
Bankura (South) Division


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.)
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 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 Energized Power Fencing					5000.00
A	Total					17102.00
B	Add GST (18% on A)					3078.00
C	A + B					20180.00
D	Add Cess (1% on Cess)					202.00
E	Add Contingency (3% on C)					605.00
F	Grand Total (C+D+E)					20987.00

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.)
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 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 Energized Power Fencing					5000.00
A	Total					18313.00
B	Add GST (18% on A)					3296.00
C	A + B					21609.00
D	Add Cess (1% on Cess)					216.00
E	Add Contingency (3% on C)					648.00
F	Grand Total (C+D+E)					22473.00

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.)
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 Energized Power Fencing					5000.00
A	Total					19645.00
B	Add GST (18% on A)					3536.00
C	A + B					23181.00
D	Add Cess (1% on Cess)					232.00
E	Add Contingency (3% on C)					695.00
F	Grand Total (C+D+E)					24108.00

Prepared By

 Range Officer
 Attached Forest Range
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 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.)
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 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 Energized Power Fencing					5000.00
A	Total					21109.00
B	Add GST (18% on A)					3800.00
C	A + B					24909.00
D	Add Cess (1% on Cess)					249.00
E	Add Contingency (3% on C)					747.00
F	Grand Total (C+D+E)					25905.00

ABSTRACT				
Sl No	Particulars of Work	Area (in Ha)	Rate	Amount (Rs)
1	Creation Work	5.26	201724	10,61,068
2	1st Year Maint Work	5.26	75602	3,97,667
3	2nd Year Maint Work	5.26	77919	4,09,854
4	3rd Year Maint Work	5.26	81527	4,28,832
5	4th Year Maint Work	5.26	29377	1,54,523
6	5th Year Maint Work	5.26	31705	1,66,768
7	6th Year Maint Work	5.26	19640	1,03,306
8	7th Year Maint Work	5.26	20987	1,10,392
9	8th Year Maint Work	5.26	22473	1,18,208
10	9th Year Maint Work	5.26	24108	1,26,808
11	10th Year Maint Work	5.26	25905	1,36,260
12	CA Land Protection			4,00,000
Total				36,13,686

(Rupees Thirty Six Lakh Thirteen Thousand Six Hundred Eighty Six) only

Prepared By

 Range Officer
 Attached Forest Range
 Bankura (South) Division

Checked By

 Asst. Divl 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

Checked By

Verified By

Range Officer
Attached Forest Range

Asst. Div. Forest Officer

Divisional Forest Officer

Chief Conservator of Forests
Central Circle, West Bengal



Government of West Bengal
Directorate of Forests

Office of the **Chief Conservator of Forests, Northern Circle**, West Bengal

Aranya Bhawan, 2nd Floor Collectorate Avenue, Jalpaiguri-735101

Tel : 03561-231563 / FAX : 03561-224582 e-mail : ccfnc-wb@nic.in & ccfncwb@gmail.com

Website: www.westbengalforest.gov.in

Memo No. 2212 / 2M-186

Dated, Jalpaiguri the 11th Jul 2023

To : The Addl. Principal Chief Conservator of Forests,
& Nodal Officer, FCA, 1980.

Sub : Approval of Vetted Estimates for CA Plantation for 161.11+8.32= 169.43 ha. in Purba Totgaon and Paschim Totgaon mouzas under Baikunthapur Division.

Ref : DFO/BKP Divn.'s letter No. 1645/8-2 dated 10-07-2023.

Enclosed kindly find herewith the copy of vetted estimates for CA Plantation for 161.11+8.32= 169.43 ha. in Purba Totgaon and Paschim Totgaon mouzas under Baikunthapur Division are recommended for approval from your end.

[S.K. Molloy, IFS]
Chief Conservator of Forests,
Northern Circle, West Bengal

Memo No. 2212 / 2M-186

Dated, Jalpaiguri the 11th Jul 2023

Copy forwarded for information to :-

1. The Divisional Forest Officer, Baikunthapur Division with reference to her letter no. cited above.
2. The Divisional Forest Officer, Bankura (North) Division.

Chief Conservator of Forests,
Northern Circle, West Bengal



GOVERNMENT OF WEST BENGAL
Directorate of Forests
Office of the Divisional Forest Officer
Baikunthapur Division

Forest Administrative Building (Block-B)
South Shanti Nagar, Dabgram-II, P.O. Dabgram, Dist: Jalpaiguri, Siliguri,
PHONE NO: 03561 796644, Email: dfobaik-wb@nic.in



No: - 1645 /8-2

Dated, Siliguri, the 10 / 07 /2023

From: The Divisional Forest Officer
Baikunthapur Division

To: The Chief Conservator of Forests,
Northern Circle, West Bengal

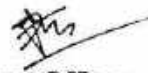
Sub: Submission of detailed estimate for CA plantations for 161.11+8.32= 169.43 ha. in Purba
Totgaon and Paschim Totgaon mouzas under Baikunthapur Division.

Ref: Letter No. 1584/15 dated: 21.06.2023 and Letter No. 1695/15 dated: 04.07.2023 from
DFO/ Bankura (North) Division.

Sir/Madam,

Enclosed please find herewith detailed estimate for CA land over 169.43 ha to be done in
Paschim and Purba Totgaon mouzas under Baikunthapur Division for an amount of Rs.
12,16,91,743.00 (Rupees Twelve crore Sixteen lakh Ninety One thousand Seven hundred and
Forty Three only) for taking necessary action from your kind end.

Enclosed: Estimate of CA 66 pages


Divisional Forest Officer
Baikunthapur Division

No: - 1645 /8-2

Dated, Siliguri, the 10 / 07 /2023

Copy to:-

1. The Addl. Principal Chief Conservator of Forests & Nodal Officer, FCA, 1980
2. The Divisional Forest Officer, Bankura (North) Division


Divisional Forest Officer
Baikunthapur Division

ABSTRACT		
S.L No	Particulars of Work	Amount
1	Advance work	27,97,748.85
2	Creation	1,94,70,049.81
3	Installation of Power fencing	2,30,67,535.00
4	Installation of Watch Tower(2 Nos)	59,66,546.00
5	Maitenance from 1st year to 10th year	7,03,89,862.93
	GRAND TOTAL	12,16,91,742.58
	Or, Say (Rupees- 12 Creore sixteen lakhs ninety one thousand seven hundrad forty three only)	12,16,91,743.00


Divisional Forest Officer
Baikunthapur Division

Copy forwarded

CCF / NO / WB

Estimate of Advance work over 169.43 ha plot no. 24,58,59,60,64,65,66,67,68 of JI. No. 2 & Plot No. 10,18,22,35,36,37,38,34 of JI. No. 1 under mouza Purba Totgaon in Targhera Range, Baikunthapur Division against diversion of 338.7 ha forest land for Burjhora Coal Mines in Birbhum Division.

No of Seedlings--508290 , Spacing --2mt x 2 mt, Area-169.43 Ha				
1	Cleaning and Levelling the nursery site	5	294	1470
2	Preparation of mother beds 1.20 m x 5m	8	294	2352
3	Sowing seeds in mother bed	5	294	1470
4	Filling of polythene tube with mixture of good earth and cow dung/FYM	35	294	10290
5	Pricking out of seedlings and dribbling of seeds in the tube	10	294	2940
6	Sorting, shifting of seedlings	15	294	4410
7	Weeding cleaning and forking and Application of bio fertiliger, insecticide	10	294	2940
8	Watering of seedling	30	294	8820
9	Purchase of water can, water pipe, Bucket etc			660
10	Purchase of seeds			2000
11	Purchase of cow dung			3000
12	Purchase of insecticide			1000
13	Collection of good earth			1000
14	Cost of Polypots			2500
A			Sub-Total Cost	44832
B			Add GST on s.I -A@ 18%	8073.36
C			Cost with GST	52925.36
D			LWC @ 1% on S.I-C	529.2536
E			Cost with LWC	53454.6136
F			Contingency @ 3% on S.I-C	1587.7608
			Costing per 10000 seedlings	55042.3744
			So, the cost of raising 508290 seedling	27,97,748.85

[Signature]
Principal Forest Officer
Baikunthapur Division

Countersigned

[Signature]
CCF

Estimate for Creation works over 169.43 ha plot no. 24,58,59,60,64,65,66,67,68 of JL No. 2 & Plot No. 10,18,22,35,36,37,38,34 of JL No. 1 under mouza Purba Totgaon in Targhera Range, Baikunthapur Division against diversion of 338.7 ha forest land for Burjhora Coal Mines in Birbhum Division.

Division against diversion of 336.7 ha forest land to agriculture

Area-169.43 ha, Spacing --2 mt x 2mt				
1	Survey and demarcation of the plantation area including GPS survey and making polygon in KML format for uploading in E-Green Watch Portal	5	294	1470
2	Burning, removing debris & Cleaning of plantation site & making inspection path	34	294	9996
3	Alignment of planting lines and stacking the pit position	6	294	1764
4	Cost of digging (50 x 45X 45)	35	294	10290
5	Alignment & cutting of contour trench of size 0.45 mt x 0.45mx 5mt, total 500 Mt long per ha= 101.25m3 in staggered manner 0.5mt away from another line for easy movement french ie to neX trench line distance 10 mtr	16	294	4704
6	Sorting- shifting, weeding- cleaning and watering seedlings in nursery (April-June)	6	294	1764
7	Making of inspection path	2	294	588
8	Making brushwood fencing around planting area	8	294	2352
9	Filling up of planting pits with dug of pulverised so, Organic manure, Fungicides Micro-Nutrients, etc	20	294	5880
10	Hoeing the scouring line along the boundary of the plantation	2	294	588
11	cost of carriage of seedlings from nursery to planting site	18	294	5292
12	transplanting of potted seedlings including carriage from field nursery to planting site & stacking	22	294	6468
13	application of insecticides to the planted seedlings	2	294	588
14	vacancy filling with potted seedlings	4	294	1176
15	cost of application of organic manure as per doses prescribed per pit	5	294	1470
16	1st time weeding, cleaning & mulching with application fertilizer and vacaey filing	25	294	7350
17	2nd time weeding, cleaning & mulching with application fertilizer and vacaey filing	14	294	4116
18	3rd time weeding, cleaning & mulching with application fertilizer and vacaey filing	10	294	2940
19	4th time weeding, cleaning & mulching with application fertilizer and vacaey filing	8	294	2352
20	5th time weeding, cleaning & mulching with application fertilizer and vacaey filing	6	294	1764
21	Making fire line 1.5 mtr wide all along the periphery and 1.2 mtr with inside plantation	4	294	1176
22	Watering to the planted seedling during the dry spell establishment	0	294	0
23	Cost of watch & word from September to March	18	294	5292
24	Fire line maintenance	10	294	2940
25	Repairing of fencing	6	294	1764
26	Watch and word	24	294	7056
27	Supply of Bio-fertilizer & vermicomposed	1	2500	2500
Sub-Total Cost				93640
A	Add GST on s.1 -A@ 18%			16855.2
B	Cost with GST			110495.2
C	LWC @ 1% on S.I.-C			1104.952
D	Cost with LWC			111600.152
E	Contingency@ 3% on S.I.-C			3314.856
F	GRAND TOTAL			114915.008
Hence the Cost of 169.43 Ha.				1,94,70,049.81

Divisional Forest Officer
Baikunthapur Division

**Estimate prepared for -Electrical Solar Power Fencing 0.94 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-24,58,59 under Baikunthapur Division**

Sr. No.	Particulars of work	Unit	Quantity	Rate	Amount
1	Estimate Technical Specification and Analysis 1. Energizer (KIB-1200) with stand by Energizer (INC). The energizer must have the following mentioned and Energizer Model No. Leadsiret SL no. ply voltage and type 110 indicator for Energizer and fence status which operate the Energizer	No		80000.00	0.00
2	Battery Maintenance free 150Ah, 12V Plate Analysis - a) 12 Vols, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V---(No. Model and/or Type No. 10 Watts, 12 Vols rated with 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC Should be 37W. Open circuit voltage at 37/10 watts should be 16.4V minimum O/C voltage under STC should be 21.0V. on the SPV module A strip containing the following details should be laminated as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the CL, 3ft below the CL.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	94	135.00	12690.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulation. Must be installed with proper earthing arrangement	No		5200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grade the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	15	2700.00	41200.00
9	DM3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1000 V increments from 60K to 12KV.	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No.Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. It could be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel material. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with double door	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.59 REX	Kg	395	150.00	59250.00



Sub Assistant Engineer (SAE)
Baikunthapur CCC
DCL

Divisional Forest Officer
Baikunthapur, Division

Countersigned

CCF / NO. 103

15	14/3 binding wire 11CK3 UTS 140.5N/mm ² . Break strength of 740kg. Approved make Of the surface area of the wire. High tensile wire 2.39mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq.m of the surface area Of wire. For binding of PP Reel insulator.	Kg	27	150.00	4050.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1Set	Nos	1130	21.00	23730.00
17	Super Strim insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15 KV voltage	No	510	82.00	41820.00
18	Wire Tightener- Made of non rusting Aluminium alloy for proper tightening and Tensioning of wires stand.	No	210	250.00	52500.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns.)	No	34	600.00	20400.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners. Galvanized to more than 60 microns. 2 feet length of the posts must be Blasted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	Set	12	7500.00	90000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners. Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	70	1300.00	91000.00
22	45 x 45 x 5mm Sft hot dipped Galvanized	No	40	650.00	26000.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns.	No	420	58.00	24360.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant(s) no. 13, 14) Clamps more than 25 microns.	No	2410	30.00	72300.00
25	Warning Sign Board- Must be virgin plastic material with statutory Colors and signs Yellow with black lettering 10cm language	No	26	125.00	3250.00
26	Vegetation clearing	MT	440	11.50	5060.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	21	5350.00	112350.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	5417	16.00	86672.00
				Basic Rate	768,632.00
				GST @ 18% on Basic Price	138,353.76
				Add GST	906,985.76
				LWC @ 1% on sl no.C	9,069.86
				Add LWC on S.I no. D	916,055.62
				GRAND TOTAL	916,056.00



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

9(1-1)

Estimate prepared for -Electrical Solar Powwer Fencing 0.99 km (MOUZA-PURBA TOTGAON, JL-2, PLOT NO-24,58,59 under Baikunthapur Division					
Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification etc Analysis 1. Energizer IG8-1200 with stand by Energizer INO. The energizer must have the following mentioned detail Energizer Model No. Energizer Sl. no. ply voltage and type LED indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V-INO. Monocrystalline or Type No. 120 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC Should be 37W. Operating voltage at 37/110 watts should be 16.4V minimum O/C voltage under STC should be 21.0V, on the SPV module A strip containing the following details should be laminated as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	99	135.00	13365.00
7	Lightening diverter kit must be capable of diverting of stray lightning . The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No		3200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grade must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	30	2700.00	81000.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1000 V increments, from 10K to 12KV	No		2300.00	0.00
11	Live light (Fence monitoring tools) INO Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. It could be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel material. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, co-erized with proper and firmly Netting by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDG	Kg	375	150.00	56250.00

Gram
07/07/23



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

[Signature]
Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HOG UTS 146.5 Kp/cm ² . Break strength of 740kgs. Approved make. Of the surface area of the wire. High tensile wire 2.5mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq.m of the surface area Of wire. For binding of PP Reel insulator.	Kg	18	150.00	2700.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1 Set	Nos	1170	21.00	24570.00
17	Super Strain insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15 KV voltage	No	460	82.00	37720.00
18	Wire Tightener— Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand.	No	186	250.00	46500.00
19	Tension spring—Made of spring steel and capable of taking compression loads. (Must be with HDG finish (Zinc coating more than 60 microns))	No	30	600.00	18000.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BlOuled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 50cm x 45cm x 45cm 2No.	Set	14	7500.00	105000.00
21	45 x 45 x 5mm T Section post 100 hot dipped Galvanized Galvanized to more than 60 microns. 0x1300mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	66	1300.00	85800.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	38	650.00	24700.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	436	58.00	25288.00
24	Elephant Teepee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant(s) (s/n no. 13, 14) Clamps more than 25 microns	No	2180	30.00	65400.00
25	Warning Sign Board— Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Local language)	No	24	125.00	3000.00
26	Vegetation clearing	MT	550	11.50	6325.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	23	5350.00	123050.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	7244	16.00	115904.00
A	Basic Rate				834,572.00
B	GST @ 18% on Basic Price				150,222.96
C	Add GST				984,794.96
D	LWC @ 1% on sl no. C				9,847.95
E	Add LWC on S.I no. D				994,642.91
	GRAND TOTAL				994,643.00



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

Vetted
Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

**Estimate prepared for -Electrical Solar Power Fencing 1.10 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-24,58,59 under Baikunthapur Division**

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
1	Estimate Technical Specification are Analysis. 1. Energizer IGS-1200 with stand by Energizer INO The energizer must have the following mentioned unit Energizer Model No. Energizer Sl. no. ply voltage and type 110 indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V (Data Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V—1No. Model/Type No. 110 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells. Minum Power output STC Should be 37W. openning voltage at 37/110 watts should be 16.4V minimum 0 C voltage under STC should be 21.0V, on the SPV module a strip containing the following details should be inserted as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3d below the GL.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	110	135.00	14850.00
7	Lightning diverter kit must be capable of diverting of any lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No		5200.00	0.00
8	Super Earth Kit must be 4 mm feet long with 10 mm dia stainless steel rod IS 304 grade the must contain earth mixture powder of 15 kg which is capable for retain moisture in all seasons	No	22	2700.00	59400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1,000 V increments from 10KV to 12KV	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading be made of tough and durable ABS plastic it should be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel metal. The enclos are must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door	No		19500.00	0.00
13	Franklin Gate Assy. 5 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDG	Kg	407	150.00	61050.00



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HOGT (HS 140 MKp/m2. Break strength of 710kg. Approved make. Of the surface men of the wire. High tensile wire 2.5mm dia galvanized steel wire with minimum of 250gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire. For binding of PP Reet inside bar.	Kg	24	150.00	3600.00
16	PP Reet insulator 1120Kv. Should be UV stabilized.	Nos	1240	21.00	26040.00
17	Super Strum insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of 60kg. With high quality zinc coating 160gms coating (Zn purity above 99% Y 84 m	No	460	82.00	37720.00
18	12 KV wire Wire Tighten-- Made of non rusting Aluminum alloy for proper tightening and	No	214	250.00	53500.00
19	Tensioning of wires stand Tension spring--Made of spring steel and capable of taking compression loads.	No	36	600.00	21600.00
20	Must be with HDG finish (Zinc coating more than 60 microns) 75mm x 300mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 300mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be B/Galed In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45cm 2No.	Set	14	7500.00	105000.00
21	45 x 45 x 8mm T Section post 100 hot dipped Galvanized. Galvanized to more than 60 microns. 6x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be galvanized In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45cm 2No.	No	60	1300.00	78000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	36	650.00	23400.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns.	No	450	58.00	26100.00
24	Elephant Toupce Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant (1 no. 13, 14) Clamps more than 25 microns.	No	2360	30.00	70800.00
25	Warning Sign Board-- Must be virgin plastic material with statutory Colors and signs Yellow with black lettering HDGal language	No	18	125.00	2250.00
26	Vegetation clearing	MT	450	11.50	5175.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (mini housing box) with the ratio of 2:3	Cum	25	5350.00	133750.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	7412	16.00	118592.00
A	GST @ 18% on Basic Price				151,348.86
B	Add GST				992,175.86
C	LWC @ 1% on SI no.C				9,921.76
D	Add LWC on SI no. D				1,002,097.62
E	GRAND TOTAL				1,002,098.00



Sub Assistant Engineer (SAE)
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Divisional Forest Officer
Baikunthapur, Division

Executive Engineer
Siliguri Jalpalguri Development Authority
Jalpalguri

Estimate prepared for -Electrical Solar Power Fencing 1.25 km with 2 Nos. Solar PV Panel (MOUZA-PURBA TOTGAON, JL-2, PLOT NO-24,58,59 under Baikunthapur Division

Sl. No.	Particulars of work	Unit	Quantity	Rate	Amount
1	Estimate Technical Specification Analysis 1. Energizer KGB-1200 with stand by Energizer 1NO. The Energizer must have the following mentioned data Energizer Model No. Energizer Sl. no. Supply voltage and type LED indicator for Energizer and Fence status which is visible from the Energizer.	No	2	86000.00	172000.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No	2	20000.00	40000.00
3	Solar PV Module 120W, 12V---1NO. Monocrystalline or Type No. 120 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC Should be 37W. Operating voltage at 37/110 watts should be 16.4V (minimum O/C voltage under STC should be 21.0V, on the SPV module A strip containing the following details should be laminated as so as to be clearly visible from the front side.	No	2	21000.00	42000.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL.		2	5800.00	11600.00
5	Charge Indicator 12 V 715 PVA		2	9800.00	19600.00
6	Double insulated to withstand upto 15k V voltage, inner core wire must be single core fully capable for under ground layout	MT	125	135.00	16875.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No	4	5200.00	20800.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	72	2700.00	194400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case	No	2	16000.00	32000.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1,000 V increments, from 10K to 12KV.	No	2	2300.00	4600.00
11	Live light (Fence monitoring tools) 1No.Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. 41mm dia	No	2	6820.00	13640.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door	No	2	19500.00	39000.00
13	Franklin Gate Assy 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulators and clamps.	Set	2	26000.00	52000.00
14	High Tensile Wire 2.59 RDG	Kg	1222	150.00	183300.00



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

Divisional Forest Officer
Baikunthapur, Division

15	14 G bonding wire HDG UTS 140.5Kg/cm ² Break strength of 740kgs. Approved make Of the surface area of the wire High tensile wire 2.59mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire For bonding of PP Reel insula tor	Kg	64	150.00	9600.00
16	PP Reel insulator 1120Kg Should be UV stabilized 15kv	Nos	3650	21.00	76650.00
17	Super Strain insulator Technical Analysis. Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage	No	1560	82.00	127920.00
18	Wire Tightline- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand	No	750	230.00	187500.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	114	600.00	68400.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mmx 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be Bl Dried In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 9 0cm x 45mm x 45mm 2No.	Set	40	7500.00	300000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mmx 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45mm 2No.	No	240	1300.00	312000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	140	650.00	91000.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	1520	58.00	88160.00
24	Elephant Tongue Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant's (no. 13, 14) Clamps more than 25 microns	No	6600	30.00	198000.00
25	Warning Sign Board- Must be virgin plastic material with stationary Colors and signs Yellow with black lettering (Local language)	No	80	125.00	10000.00
26	Vegetation clearing	MT	1730	11.50	19895.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (nut housing box) with the ratio off 2:3	Cum	90	5350.00	481500.00
28	Installation of Base unit	Job	2	45000.00	90000.00
29	Fence Installation charges	mt	27560	16.00	440960.00
A				Basic Rate	3,343,400.00
B				GST @ 18% on Basic Price	601,812.00
C				Add GST	3,945,212.00
D				LWC @ 1% on sl no C	39,452.12
E				Add LWC on sl no. D	3,984,664.12
				GRAND TOTAL	3,984,664.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Executive Engineer
Sagar Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkanthapur Division

**Estimate prepared for -Electrical Solar Power Fencing 1.06 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-67,68 under Baikunthapur Division**

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
1	Estimate Technical Specification and Analysis 1 Energizer IGR-1200 with stand by Energizer INO. The energizer must have the following mentioned unit Energizer Model No Energizer Size ply voltage and type LED indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V-1No. Model/Type No. 1.0 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells. Minimum Power output STC Should be 37W. Operating voltage at 37/110 watts should be 16.4V, minimum O/C voltage under STC should be 21.0V. on the SPV module a strip containing the following details should be laminated as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand - to mount the solar PV module 17 feet above the GL, 3ft below the GL.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	106	135.00	14310.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No		5200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grade the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	28	2700.00	75600.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1,000 V increments from 10K to 12KV	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No.Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. 41mm dia be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDC	Kg	380	150.00	57000.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HDG UTS 140.5Kp/cm ² . Break strength of 740kg. Approved make. Of the surface area of the wire. High tensile wire 2.59mm dia galvanized steel wire with minimum of 330gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire. For binding of PP Reel insulator.	Kg	17	150.00	2550.00
16	PP Reel insulator 11208g. Should be UV stabilized 15cl.	Nos	1190	21.00	24990.00
17	Super Strain insulator Technical Analysis: Encl Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage.	No	550	82.00	45100.00
18	Wire Tightener- Made of non rusting Aluminium alloy for proper tightening and Tensioning of wires stand.	No	196	250.00	49000.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	28	600.00	16800.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm. Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be fluted In 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	Set	12	7500.00	90000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	66	1300.00	85800.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	38	650.00	24700.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	440	58.00	25520.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant (5 no. 13, 14) Clamps more than 25 microns	No	2360	30.00	70800.00
25	Warning Sign Board- Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Hindi language)	No	16	125.00	2000.00
26	Vegetation clearing	MT	614	11.50	7061.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the rule of (1:2:3)	Cum	17	5350.00	90950.00
28	Installation of Base mat	Job		45000.00	0.00
29	Fence Installation charges	mt	8122	16.60	129952.00
A				Basic Rate	812,133.00
B				GST @ 18% on Basic Price	146,183.94
C				Add GST	958,316.94
D				LWC @ 1% on sl no C	9,583.17
E				Add LWC on sl no D	967,900.11
F				GRAND TOTAL	967,900.00



Sub Assistant Engineer (SAE)
Mitanpally CCC
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Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

**Estimate prepared for -Electrical Solar Powwer Fencing 1.04 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-67,68 under Baikunthapur Division**

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification and Analysis. 1. Energizer IG8-1200 with stand by Energizer 1HQ. The energizer must have the following mentioned unit: Energizer Model No. Energizer SL no. ply voltage and type LED indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V—1No. Model/Type No. 110 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC should be 37W. Operating voltage at 37/110 watts should be 16.4V, minimum O/C voltage under STC should be 21.0V, on the SPV module A strip containing the following details should be furnished as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core, fully capable for under ground lay out	MT	104	135.00	14040.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement.	No		5200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season.	No	18	2700.00	48600.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case.	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1000 V increments from 10K to 12KV.	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No.Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading, be made of tough and durable ABS plastic. It should be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel material. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing Box must be Lockable and double door. Gates with single door.	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulations and clamps.	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDG	Kg	452	130.00	57800.00



Pranab
07/07/23
Sub Assistant Engineer (SAE)
Milanpally CCC
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Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HCC UTS 140 5Kp/m ² Break strength of 740kgs. Approved make Of the surface area of the wire High tensile wire 2.5mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire For binding of PP Reel insula tor.	Kg	25	150.00	3750.00
16	PP Reel insulator 1120Kg Should be UV stabilized IS:1120	No	1150	21.00	24150.00
17	Super Strain insulator Technical Analysis: Each Kg of IET wire run up to 1000MT. 18 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage	No	420	82.00	34440.00
18	Wire Tightener- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires strand	No	220	250.00	55000.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	34	600.00	20400.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BiChaled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 9 0cm x 45mm x 45cm 2No.	Set	12	7500.00	90000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	68	1300.00	88400.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	36	650.00	23400.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	454	58.00	26332.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant (sl no. 13, 14) Clamps more than 25 microns	No	2470	30.00	74100.00
25	Warning Sign Board— Must be virgin plastic material with statutory Colors and signs Yellow with black lettering Bical language	No	22	125.00	2750.00
26	Vegetation clearing	MT	466	11.50	5359.00
27	Civil Work P.C.C. Grooving of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	28	5350.00	149800.00
28	Installation of Base unit	Inb		45000.00	0.00
29	Fence installation charges	mt	6249	16.00	99984.00
Basic Rate					828,305.00
GST @ 18% on Basic Price					149,094.90
Add GST					977,399.90
LWC @ 1 % on sl no.C					9,774.00
Add LWC on S.No. D					987,173.90
GRAND TOTAL					987,174.00



Sub Assistant Engineer (SAC)
Milanpally CCC
WBSEDCL

Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

Countersigned

Scanned with OKEN Scanner

**Estimate prepared for -Electrical Solar Powwer Fencing 1.15 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-67,68 under Baikunthapur Division**

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification Analysis 1 Energizer 10S-1200 with stand by Energizer 1NO The Energizer must have the following mentioned cost Energizer Model No. Energizer St. no. ply voltage and type HID indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V-1No. Modystat/ or Type No. 10 Warts, 12 Volts rated with 10 year 10 year warranty against Manufacturing performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC Should be 37W. open circuit voltage at 37/110 watts should be 16.4V minimum O.C voltage under STC should be 21.0V. on the SPV module A strip containing the following details should be inserted as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the G.L. 3ft below the G.L.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layon	MT	115	135.00	15525.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No		3200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	24	2700.00	64800.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1 000 V increments, from 10K to 12KV.	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No.Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. A) could be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door Gates with single door	No		19500.00	0.00
13	Franklin Gate Assy: 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Nuture by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDG	Kg	415	150.00	62250.00



02/04/23
Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

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Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HOC UTS 140.5Kgf/cm ² Break strength of 740kgs. Approved make. Of the surface area of the wire. High tensile wire 2.5mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq.m of the surface area Of wire. For binding of PP Reel insulator	Kg	21	150.00	3150.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1Set	Nos	1130	21.00	23730.00
17	Super Strain Insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15 KV voltage	No	480	62.00	39360.00
18	Wire Tightener-- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand	No	216	250.00	54000.00
19	Tension spring--Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	56	600.00	33600.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BiOuled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45cm 2No.	Set	10	7500.00	75000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 2x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45cm 2No.	No	62	1300.00	80600.00
22	45 x 45 x 5mm ST hot dipped Galvanized	No	38	650.00	24700.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	430	58.00	24940.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant(s) no. 13, 14) Clamps more than 25 microns	No	2240	30.00	67200.00
25	Warning Sign Board-- Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Osal language)	No	20	125.00	2500.00
26	Vegetation clearing	MT	520	11.50	5980.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the rule of 1:2:3	Cum	26	5350.00	139100.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	6755	16.60	108080.00
A.				Basic Rate	824,515.00
B.				GST @ 18% on Basic Price	148,412.70
C.				Add GST	972,927.70
D.				LWC @ 1 % on all no.C	9,729.28
E.				Add LWC on S.I no. D.	982,656.98
				GRAND TOTAL	982,657.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Executive Engineer
Sitiguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

Estimate prepared for -Electrical Solar Powwer Fencing 1.15 km with 2 Nos. Solar PV Pannel (MOUZA-PURBA TOTGAON, JL-2, PLOT NO-67,68 under Baikunthapur Division

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
1	Estimate Technical Specification late Analysis. 1. Energizer KIR-1200 with stand by Energizer INC. The Energizer must have the following mentioned detail Energizer Model No. Energizer SI, no. ply voltage and type LED indicator for Energizer and Fence status which operate the Energizer.	No	2	86000.00	172000.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No	2	20000.00	40000.00
3	Solar PV Module 120W, 12V--1No. Model/Type No. 120 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC should be 37W. Operating voltage at 37/10 watts should be 16.4V, minimum O/C voltage under STC should be 21.0V, on the SPV module A strip containing the following details should be laminated as so as to be clearly visible from the front side.	No	2	21000.00	42000.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL.		2	5800.00	11600.00
5	Charge Indicator 12 V 715 FVA		2	5800.00	11600.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	115	135.00	15525.00
7	Lightening diverter kit must be capable of diverting of array lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement.	No	4	5200.00	20800.00
8	Super Earth Kit must be 4 mtr feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all seasons	No	72	2700.00	194400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case.	No	2	16000.00	32000.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1,000 V increments from 10K to 12KV	No	2	2300.00	4600.00
11	Live light (Fence monitoring tools) 1No Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. It could be made	No	2	6820.00	13640.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door.	No	2	19500.00	39000.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, energized with proper and freely Nesting by using insulators and clamps.	Set	2	26000.00	52000.00
14	High Tensile Wire 2.59 RDG	Kg	1180	150.00	177000.00



**Sub Assistant Engineer (SAE)
Milanpally CCC
WBSMEDCL**

**Divisional Forest Officer
Baikunthapur, Division**

15	14 G binding wire HOG UTS 140.5 Kg/cm ² Break strength of 740kgs Approved make Of the surface area of the wire High tensile wire 2.59mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire For binding of PP Reel insulator	Kg	70	150.00	10500.00
16	PP Reel insulator 1120Kg Should be UV stabilized 1 Set	Nos	3710	21.00	77910.00
17	Super Strain insulator Technical Analysis Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage	No	1580	82.00	129560.00
18	Wire Tighter— Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand	No	810	250.00	202500.00
19	Tension spring—Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	110	600.00	66000.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BlOuled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	Set	44	7500.00	330000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	220	1300.00	286000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	132	650.00	85800.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (I.e. bare conductors) Zinc coating to more than 25 microns	No	1440	58.00	83520.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant(s) no. 13, 14) Clamps more than 25 microns	No	6580	30.00	197400.00
25	Warning Sign Board— Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Local language)	No	78	125.00	9750.00
26	Vegetation clearing	MT	1740	11.50	20010.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	85	5350.00	454750.00
28	Installation of Base unit	Job	2	45000.00	90000.00
29	Fence Installation charges	mt	24845	16.00	397516.00
A.				Basic Rate	3,275,401.00
B.				GST @ 18% on Basic Price	589,572.18
C.				Add GST	3,864,973.18
D.				LWC @ 1 % on sl no. C	38,649.73
E.				Add LWC on Sl no. D	3,903,622.91
				GRAND TOTAL	3,903,623.00



Sub Assistant Engineer (SAE)
Mulanpally CCC
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Executive Engineer
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Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

2(9-3)

Estimate prepared for -Electrical Solar Power Fencing 1.18 km (MOUZA-PURBA TOTGAON, JL-1, PLOT NO-10,18,22,35,36,37,38,34 under Baikunthapur Division

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
1	Estimate Technical Specifications and Analysis 1 Energizer IGB-1200 with stand by Energizer INC) The Energizer must have the following mentioned unit: Energizer Model No. Energizer SI no. ply voltage and type VDD indicator for Energizer and Fence status which generate the Energizer.	No		80000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (LIXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V---)No. Model/Type No. 120 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells. Minum Power output STC Should be 37W. operating voltage at 37/110 watts should be 16.4V minimum O/C voltage under STC should be 21.0V. on the SPV module. A strip containing the following details should be attached as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the G.L., 3ft below the G.L.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			5800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core, fully capable for under ground layout.	MT	118	135.00	15930.00
7	Lightening diverter kit must be capable of diverting of surgy lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement.	No		5200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 min dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season.	No	26	2700.00	70200.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case.	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1000 V increments from 10K to 12KV.	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No Fence monitoring tools. Must be with 5 Neon lights measuring the fence. For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. A lead be made.	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel material. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Cover with single door.	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, covered with proper and finally fitting by using iron chain and clasp.	Set		26000.00	0.00
14	High Tensile Wire 2.5/ RDC	Kg	367	150.00	55050.00



Bram
07/03/23
Sub Assistant Engineer (SAE)
Milanpally CCC
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[Signature]
Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire (HCC) UTS 140.5Kp/m ² Break strength of 740Kgs. Approved make. Of the surface area of the wire. High tensile wire 2.5mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire. For binding of (PP Reel) insulator.	Kg	20	150.00	3000.00
16	PP Reel insulator 1120Kp Should be UV stabilized. 1 Set	Nos	1210	21.00	25410.00
17	Super Strain insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1000MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage.	No	620	82.00	50840.00
18	Wire Tightline- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand.	No	230	250.00	57500.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	28	600.00	16800.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mmx 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BFOiled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 9 0cm x 45mm x 45cm 2No.	Set	16	7500.00	120000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 6x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mmx 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45cm 2No.	No	50	1360.00	68000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	40	650.00	26000.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	428	58.00	24824.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Ele plant(s) no. 13, 14) Clamps more than 25 microns	No	2230	30.00	66900.00
25	Warning Sign Board-- Must be virgin plastic material with sanitary Colors and signs Yellow with black lettering (Clear Laminate)	No	20	125.00	2500.00
26	Vegetation clearing	MT	530	11.50	5865.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 2:3	Cum	25	5350.00	133750.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	7750	16.00	124000.00
A.	Basic Rate				863,569.00
B.	GST @ 18% on Basic Price				155,442.42
C.	Add GST				1,019,011.42
D.	LWC @ 1% on S.I no C				10,190.11
E.	Add LWC on S.I no. D				1,029,201.53
	GRAND TOTAL				1,029,202.00



Sub Assistant Engineer (SAE)
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Baikunthapur, Division

P-41P-3)

Estimate prepared for -Electrical Solar Power Fencing 1.03 km (MOUZA-PURBA TOTGAON, JL-1, PLOT NO-10,18,22,35,36,37,38,34 under Balkunthapur Division

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification and Analysis. 1. Energizer IG8-1200 with stand by Energizer INO. The energizer must have the following mentioned unit Energizer Model No. Energizer Sl. no. Supply voltage and type LED indicator for Energizer and Fence status which operate the Energizer	No		86000.00	0.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V-INO. Model/ or Type No. 140 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC Should be 37W. Open circuit voltage at 37/110 watts should be 16.4V, minimum O/C voltage under STC should be 21.0V. on the SPV module A strip containing the following details should be laminated as so as to be clearly visible from the front side,	No		21000.00	0.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL.			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core, fully capable for under ground laying	MT	103	135.00	13905.00
7	Lightening diverter kit must be capable of diverting of stray lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No		5200.00	0.00
8	Super Earth Kit-must be 4 mtr feet long with 10 mm dia stainless steel rod IS 104 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	32	2700.00	86400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case.	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KCV and in 1.000 V increments, from 10K to 12KV	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No, Fence monitoring tools. Must be with 3 Neon lights measuring the fence For excellent, very good, good, poor and not working grading, be made of tough and durable ABS plastic. It must be made	No		6820.00	0.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door.	No		19500.00	0.00
13	Franklin Gate Assy- 8 feet high 7 feet wide Provision with lockable, energized with proper and finny Netting by using insulations and clamps	Set		26000.00	0.00
14	High Tensile Wire 2.50 RDG	Kg	366	150.00	54900.00



Sub Assistant Engineer (SAE)
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07/02/23

Divisional Forest Officer
Balkunthapur, Division

15	14 G binding wire HOG UTS 140.5Kg/m ² . Break strength of 740kg. Approved make. Of the surface area of the wire. High tensile wire 2.59mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire. For binding of PP Reel insulator.	Kg	15	150.00	2250.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1 Set	Nos	1150	21.00	24150.00
17	Super Strain insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1000MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq m 15 KV voltage	No	450	82.00	36900.00
18	Wire Tightener- Made of non rusting Aluminium alloy for proper rightening and Tensioning of wires stand	No	208	250.00	52000.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	30	600.00	18000.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45mm 2No.	Set	12	7500.00	90000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 0x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45mm x 45mm 2No.	No	52	1300.00	67600.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	42	650.00	27300.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	375	58.00	21600.00
24	Elephant Toupce Clamps 75mm galvanized plates 2No. of each Clamps included flanges with bolts & nuts For protection of posts and gates from Elephant (sl no. 13, 14) Clamps more than 25 microns	No	2250	30.00	67500.00
25	Warning Sign Board— Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Clear language)	No	22	125.00	2750.00
26	Vegetation clearing	MT	550	11.50	6325.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	27	5350.00	144450.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	mt	6157	16.00	98512.00
A				Basic Rate	814,960.00
B				GST @ 18% on Basic Price	146,692.80
C				Add GST	961,652.80
D				LWC @ 1% on S.I no. C	9,616.53
E				Add LWC on S.I no. D	971,269.33
				GRAND TOTAL	971,269.00



Sub Assistant Engineer (SAE)
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Vetted
Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

Estimate prepared for -Electrical Solar Powwer Fencing 1.17 km with 2 Nos. Solar PV Pannel (MOUZA-PURBA TOTGAON, JL-1, PLOT NO-10,18,22,35,36,37,38,34 under Baikunthapur Division

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification) ate Analysis. 1. Energizer IGS-1200 with stand ly Energizer INO. The energizer must have the following mentioned unit Energizer Model No. Energizer Sl. no. ply voltage and type 11D indicator for Energizer and Fence status which operate the Energizer	No	2	86000.00	172000.00
2	Battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No	2	20000.00	40000.00
3	Solar PV Module 110W, 12V--INA. Modytad/ or Type No. 110 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells Mini Power output STC Should be 37W pesaling voltage at 37/110 watts should be 16.4V, (minimum 0°C voltage under STC should be 21.0V. on the SPV module a strip containing the following details should be mounted as so as to be clearly visible from the front side.	No	2	21000.00	42000.00
4	Solar Stand, to mount the solar PV module 17 feet above the GL, 3ft below the GL		2	5800.00	11600.00
5	Charge Indicator 12 V 715 FVA		2	9800.00	19600.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core fully capable for under ground layout	MT	117	135.00	15795.00
7	Lightening diverter kit must be capable of diverting of stray lightning . The diverter assembly must be adjustable for spark gap . Must have good insulator . Must be installed with proper carting arrangement	No	4	5200.00	20800.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	72	2700.00	194400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case.	No	2	16000.00	32000.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1000 V increments, from 10K to 12KV.	No	2	2300.00	4600.00
11	Live light (Fence monitoring tools) 1 No. Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading, be made of tough and durable ABS plastic. It should be made	No	2	6820.00	13640.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door.	No	2	19500.00	39000.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, co-energized with proper and firmly Nesting by using insulations and clamps.	Set	2	26000.00	52000.00
14	High Tensile Wire 2.59 RDO	Kg	1240	150.00	186000.00

Gram
07/07/23



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

[Signature]
Divisional Forest Officer
Baikunthapur, Division

15	14 G bunding wire HDG UTS 140 5K gms. Break strength of 740Kgs. Approved make Of the surface area of the wire High tensile wire 2.5mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq m of the surface area Of wire. For bunding of PP Reel insulator.	Kg	66	150.00	9900.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1Set	No	3680	21.00	77280.00
17	Super Strain insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15.8KV voltage	No	1540	82.00	126280.00
18	Wire Tightline-- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand	No	780	250.00	195000.00
19	Tension spring--Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	108	600.00	64800.00
20	75mm x 1000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns 2 feet length of the posts must be BlOiled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 9 0cm x 45cm x 45cm 2No.	Set	42	7500.00	315000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 6x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	230	1300.00	299000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	140	650.00	91000.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	1480	58.00	85840.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Ele phant(s/1 no. 13, 14) Clamps more than 25 microns	No	6710	30.00	201300.00
25	Warning Sign Board-- Must be Virgin plastic material with statutory Colors and signs Yellow with black lettering 100cm language	No	84	125.00	10500.00
26	Vegetation clearing	MT	1820	11.50	20930.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	94	5350.00	502900.00
28	Installation of Base unit	Joh	2	45000.00	90000.00
29	Fence Installation charges	mt	25237	16.00	403792.00
				Basic Rate	3,336,957.00
A				GST @ 18% on Basic Price	600,632.26
B				Add GST	3,937,609.26
C				LWC @ 1 % on sl no C	39,376.09
D				Add LWC on sl no. D	3,976,985.35
E				GRAND TOTAL	3,976,985.00



Sub Assistant Engineer (SAE)
Milanpally CCC
WBSEDCL

Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

Estimate prepared for -Electrical Solar Power Fencing 1.07 km (MOUZA-PURBA
TOTGAON, JL-2, PLOT NO-60,64,65,66 under Baikunthapur Division

SL No.	Particulars of works	Unit	Quantity	Rate	Amount
A.					
1	Estimate Technical Specification etc Analysis 1. Energizer IG8-1200 with stand by Energizer (NO) The energizer must have the following mentioned unit Energizer Model No Energizer SL no. ply voltage and type 11D indicator for Energizer and Fence status w/leth to operate the Energizer	No		86000.00	0.00
2	battery Maintenance free 150Ah, 12V Bale Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (EXIDE HEAVY Duty)	No		20000.00	0.00
3	Solar PV Module 120W, 12V--(No. Model/Type No. 120 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing/ performance defects. The terminal should have a Provision of opening it for replacing the cable, if required. Module shall contain crystalline silicon solar cells. Main Power output STC Should be 37W. openning voltage at 37/110 watts should be 18.4V minimum O/C voltage under STC should be 21.0V on the SPV module a strip containing the following details should be laminated as so as to be clearly visible from the front side.	No		21000.00	0.00
4	Solar Stand , to mount the solar PV module 17 feet above the GL, 3A below the GL			5800.00	0.00
5	Charge Indicator 12 V 715 FVA			9800.00	0.00
6	Double insulated to withstand upto 15kV voltage, inner core wire must be single core, fully capable for underground layout	MT	107	135.00	14445.00
7	Lightening diverter kit must be capable of diverting of stray lightning . The diverter assembly must be adjustable for spark gap . Must have good insulator . Must be installed with proper earthing arrangement	No		5200.00	0.00
8	Super Earth Kit-must be 4 min feet long with 10 mm dia stainless steel rod IS 304 grad the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	22	2700.00	59400.00
9	DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with Impact resistant case.	No		16000.00	0.00
10	Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1 000 V increments from 10K to 12KV.	No		2300.00	0.00
11	Live light (Fence monitoring tools) 1No Fence monitoring tools. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. 4 could be made.	No		6520.00	0.00
12	Unit Housing Box with stand Made of steel metal. The enclosure must be provided paint Finish. The enclosure must have enough space to housed Energizer, Battery, maintenance materials. Housing box must be Lockable and double door. Gates with single door.	No		19500.00	0.00
13	Franklin Gate Assy. 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Netting by using insulations and clamps.	Set		26000.00	0.00
14	High Tensile Wire 2.59 RDG	Kg	416	150.00	62400.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Baikunthapur, Division

15	14 G binding wire HOG UTS 140.5Kg/m ² . Break strength of 740kgs. Approved make. Of the surface area of the wire High tensile wire 2.59mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq.m of the surface area Of wire. For binding of PP Reel insulator.	Kg	18	150.00	2700.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1Set	Nos	1320	21.00	27720.00
17	Super Strain insulator Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15 KV voltage	No	540	82.00	44280.00
18	Wire Tightener- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand	No	252	250.00	63000.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	28	600.00	16800.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mm x 3000mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BlOuded In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	Set	14	7500.00	105000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. 6x1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mm x 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be painted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm 2No.	No	56	1300.00	72800.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	44	650.00	28600.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (i.e. bare conductors) Zinc coating to more than 25 microns	No	390	58.00	22620.00
24	Elephant Toupee Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Elephant(s) (no. 13, 14) Clamps more than 25 microns	No	2160	30.00	64800.00
25	Warning Sign Board— Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Clear) language	No	28	125.00	3500.00
26	Vegetation clearing	MT	550	11.50	6325.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (unit housing box) with the ratio of 1:2:3	Cum	30	5350.00	160500.00
28	Installation of Base unit	Job		45000.00	0.00
29	Fence Installation charges	rest	7561	16.00	120976.00
A.				Basic Rate	875,866.00
B.				GST @ 18% on Basic Price	157,655.88
C.				Add GST	1,033,521.88
D.				LWC @ 1% on S.I no C	10,335.22
E.				Add LWC on S.I no. D	1,043,857.10
				GRAND TOTAL	1,043,857.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Vetted
Executive Engineer
Singuri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Balkunthapur, Division

Estimate prepared for -Electrical Solar Power Fencing 0.89 km with 1 No. Solar PV Panel (MOUZA-PURBA TOTGAON, JL-2, PLOT NO-60,64,65,66 under Balkunthapur Division

Sl. No.	Particulars of works	Unit	Quantity	Rate	Amount
1	1. Estimate Technical Specification and Analysis. 1. Energizer (48-1200 with stand by Energizer 180). The energizer must have the following mentioned unit Energizer Model No. Energizer SL no. ply voltage and type LED indicator for Energizer and Fence status which to operate the Energizer	No	1	80000.00	80000.00
2	2. Battery Maintenance free 150Ah, 12V Bolt Analysis - a) 12 Volts, 150Ah tubular plate, flooded electrolyte, low Maintenance battery with 3 year warranty (DIXIT HEAVY Duty)	No	1	20000.00	20000.00
3	3. Solar PV Module 120W, 12V---1No. Model/Type No. 100 Watts, 12 Volts rated with 10 year 10 year warranty against Manufacturing performance defects. The terminal should have a Provision of opening it for replacing the module, if required. Module shall contain crystalline silicon solar cells Minimum Power output STC should be 37W. open-circuit voltage at 37/110 watts should be 16.4V minimum O/C voltage under STC should be 21.0V. on the SPV module a strip containing the following details should be laminated as so as to be clearly visible from the front side.	No	1	21000.00	21000.00
4	4. Solar Stand, to mount the solar PV module 17 feet above the GL, 30 below the GL.		1	5800.00	5800.00
5	5. Charge Indicator 12 V 715 PVA		1	9800.00	9800.00
6	6. Double insulated to withstand upto 15KV voltage, inner core wire must be single core fully capable for under ground layout	MT	89	135.00	12015.00
7	7. Lightning diverter kit must be capable of diverting of any lightning. The diverter assembly must be adjustable for spark gap. Must have good insulator. Must be installed with proper earthing arrangement	No	2	5200.00	10400.00
8	8. Super Earth Kit-must be 4 to 6 feet long with 10 mm dia stainless steel rod. IS 304 and the must contain earth mixture powder of 15 kg which is capable for retain moisture in all season	No	36	2700.00	97200.00
9	9. DM 3 Fence monitoring tools display fence digitally up to 12 KV. Auto ON/OFF switch should activate when fence pulse is Detected. Body must be electric resistant, waterproof with impact resistant case	No	1	16000.00	16000.00
10	10. Neon Tester Must displays fence voltage in 100V increments under 10 KV and in 1,000 V increments from 10K to 12KV.	No	1	2300.00	2300.00
11	11. Live light (Fence monitoring tools) 1No. Fence monitoring kit. Must be with 5 Neon lights measuring the fence For excellent, very good, good, poor and not working grading. be made of tough and durable ABS plastic. 6 LEDs be made	No	1	6820.00	6820.00
12	12. Unit Housing Box with stand Made of steel metal. The enclos are must be provided paint Finish. The enclosure must have enough space to house Energizer, Battery, substation materials. Housing box must be Lockable and double door. Gates with single door	No	1	19500.00	19500.00
13	13. Franklin Gate Assy, 8 feet high 7 feet wide Provision with lockable, energized with proper and firmly Setting by using insulators and clamps	Set	1	26000.00	26000.00
14	14. High Tensile Wire 2.55 RMX	Kg	625	150.00	93750.00

**Divisional Forest Officer
Balkunthapur, Division**



**Sub Assistant Engineer (SAE)
Mithapally CCC
WBSEDCL**

**Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri**

15	14 G binding wire UTS 140.5Kps/m ² . Break strength of 740kgs. Approved make Of the surface area of the wire. High tensile wire 2.39mm dia galvanized steel wire with minimum of 230gms zinc coating (Zn purity above 99%) / sq.m of the surface area Of wire. For binding of PP Reet insula tor.	Kg	35	150.00	5250.00
16	PP Reel insulator 1120Kg. Should be UV stabilized. 1 Set	No.	1920	21.00	40320.00
17	Super Strain insulator: Technical Analysis: Each Kg of HT wire run up to 1000MT. 14 strands of fence for 1600MT. 60kg With high quality zinc coating 160gms coating (Zn purity above 99%) / sq.m 15 KV voltage.	No	882	82.00	72324.00
18	Wire Tighter-- Made of non rusting Aluminum alloy for proper tightening and Tensioning of wires stand.	No	460	250.00	115000.00
19	Tension spring-Made of spring steel and capable of taking compression loads. Must be with HDG finish (Zinc coating more than 60 microns)	No	64	600.00	38400.00
20	75mm x 3000mm Square post Assy. Hot Dipped Galvanized. Stay support post 2No. 45mmx 3000mm. Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be BlOuled In 90cm x 90cm x 90cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm	Set	24	7500.00	180000.00
21	45 x 45 x 5mm T Section post 10ft hot dipped Galvanized Galvanized to more than 60 microns. On 1500mm square Post Assy. Hot Dip Galvanized Stay support post 2No. 45mmx 1500mm Diameter hot dipped galvanized for each 75mm post with brackets HDG. Must be included fasteners Galvanized to more than 60 microns. 2 feet length of the posts must be grouted In 90cm x 90cm x 50cm size 1:2:3 cement sand and Stone ballast and support post 90cm x 45cm x 45cm	No	160	1300.00	208000.00
22	45 x 45 x 5mm 5ft hot dipped Galvanized	No	76	650.00	49400.00
23	Joining Clamps Positive locking mechanism with L type plate Fasteners with bolts Suitable to secure lock multiple fence strands (I.e. bare conductors) Zinc coating to more than 25 microns	No	920	58.00	53360.00
24	Elephant Toupie Clamps 25mm galvanized plates 2No. of each Clamps included fasteners with bolts & nuts For protection of posts and gates from Ele phant(s/l no. 13, 14) Clamps more than 25 microns	No	2150	30.00	64500.00
25	Warning Sign Board-- Must be virgin plastic material with statutory Colors and signs Yellow with black lettering (Open language)	No	52	125.00	6500.00
26	Vegetation clearing	MT	1260	11.50	14490.00
27	Civil Work P.C.C. Grouting of Corner Post Assy. With support post, including (nut housing box) with the ratio of 1:2:3	Cum	65	5350.00	347750.00
28	Installation of Base unit	Job	1	45000.00	45000.00
29	Fence Installation charges	mt	16490	16.00	263840.00
				Basic Rate	1,936,069.00
				GST @ 18% on Basic Price	348,492.42
				Add GST	2,284,561.42
				LWC @ 1 % on sl no.C	22,845.61
				Add LWC on S.I no. D	2,307,407.03
				GRAND TOTAL	2,307,407.00



Sub Assistant Engineer (SAE)
Milanpally CCC
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Siliguri Jalpaiguri Development Authority
Jalpaiguri

Divisional Forest Officer
Baikunthapur, Division

Estimate of Watch Tower (S.L -2) at Totgaon Mouza, Targhera Rango, Balkunthapur Division

Complete Rates are as per P.W.D. Blgs. / S&P Schedule w.e.f. 01/11/17 and 10th no. Corri. & addenda.

Sl No	Ref	Description of Items	Quantity	Unit	Rate	Amount
1	PWD, Blgs, p-1, i-2	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. a) Depth of excavation not exceeding 1,500 mm.	94.21	m3	119.27	11236.19
2	PWD, Blgs, p-1, i-3	Earth work in filling in foundation trenches or plinth with good earth in layer not exceeding 150 cm including watering and rammers etc .layer by layer complete .a) With earth obtained from excavation of foundation trenches.	47.10	m3	77.54	3652.44
3	PWD, Blgs, p-2, i-4	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) B) Do - by fine sand	8.44	M3	633.27	5343.22
4	PWD Bldg. schedule (Rate Analysis)	Laying 150mm (approximate finished thickness) boulder soling including rough dressing, breaking necessary hand packing and ramming down small stone pieces in the interstices including rolling and repairing the bed of proper level camber with necessary cushionine over bed and ultimate filling of voids with moorum or sand or kiln rubbish including cost of all materials but excluding cost of boulders	36.00	M2	248.15	8933.40
5	p-24-i-4	Ordinary Cement concrete(mix 1:2:4) M-15 with graded stone chips (20 mm size) excluding shuttering and reinforcement,if any as per relevant IS code. NB variety	6.52	m3	4008.00	26119.12
6	p-26,i-10	Ordinary Cement concrete(mix 1:1.5:3) M-20 with graded stone chips (20 mm down) excluding shuttering and reinforcement,if any . In ground floor as per IS 456-2000. NB variety				
		Ground Floor	30.20	m3	4745.00	143308.49
		1st Floor	11.36	m3	4840.00	55001.76
		2nd Floor	11.36	m3	4935.00	56081.34
		3rd Floor	1.60	m3	5030.00	8048.00

[Signature]
Divisional Engineer
Balkunthapur Division

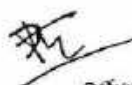
7	PWD, Bids p-42, i-36	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto Plinth) f) 25 mm to 30 mm shuttering without staging in foundation	34.64	m2	205.00	7101.20
		a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of the EIC Ground Floor	113.85	m2	328.00	37342.80
		1st Floor	86.35	m2	346.00	29877.10
		2nd Floor	86.35	m2	364.00	31431.40
		3rd Floor	16.00	m2	382.00	6112.00
8	PWD, Bids p-44, i-40	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.				
		Ground Floor	3.32	MT	60315.28	200198.47
		1st Floor	1.12	MT	60745.28	67736.61
		2nd Floor	1.12	MT	61175.28	68216.10
		3rd Floor	0.16	MT	61605.28	9672.03
9	PWD, Bids p-45, i-41	Brick work with 1st class bricks in cement mortar (1:4). (b) In superstructure, ground floor	6.33	m3	5395.00	34150.35
10	PWD, Bids p-16, i-16	125 mm thick work with 1st bricks in cement mortar. Ground Floor	8.55	m2	674.00	5762.70
		1st Floor	25.32	m2	715.00	18103.80
		2nd Floor	25.32	m2	756.00	19141.92
11	PWD, Bids p-189, i-1	Plaster with sand and cement mortar including rounded off or chamfering corner as directed and raking out joints including throatig, nosing and drip course, scaffolding/staging where necessary (ii) With 1:4 cement mortar				
		b) 15 mm thick (1:4) Ground Floor	68.93	m2	157	10821.23
		1st Floor	51.41	m2	161	8277.41
		2nd Floor	67.41	m2	165	11123.06
		b) 20 mm thick (1:4) Ground Floor	81.15	m2	181	14688.15
		1st Floor	69.15	m2	185	12792.75
		2nd Floor	69.15	m2	189	13069.35
12	PWD, Bids p-192, i-15	Neat cement punning about 1.5 mm, thick in wall, dado, Ground floor	12.00	m2	34.00	408.00

[Signature]
 Divisional Forest Officer
 Raichur Division

Countersigned

[Signature]
 CCF / NCH

13	P.W.D. Bids, p-195, I-7	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (b) Two Coats i) water based interior grade acrylic primer. Ground Floor	68.93	m2	44.20	3046.49
			51.41	m2	44.91	2308.94
		1st Floor	67.41	m2	45.62	3075.36
		2nd Floor				
14	P.W.D. Bids, p-196, I-8	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (b) Two coats Ground Floor	81.15	m2	45.10	3659.87
			69.15	m2	45.10	3118.67
		1st Floor	69.15	m2	45.10	3118.67
		2nd Floor				
15	P.W.D. Bids, p-198, I-5	Rendering the surface of wall and ceiling with white cement based wall putty of approved make and brand (1.5 mm thick). Ground Floor	150.08	m2	122.00	18309.15
			120.56	m2	194.00	23389.13
		1st Floor	136.56	m2	266.00	36325.63
		2nd Floor				
16	P.W.D. Bids, p-201, I-4	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) : (Two coats) ii) Luxury Quality	68.93	m2	70.00	4824.75
			69.15	m2	70.71	4889.60
		1st Floor	67.41	m2	71.42	4814.60
		2nd Floor				
17	P.W.D. B.S., P-197, I-17	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. In Ground floor (Two Coat) b) Premium 100% Acrylic Emulsion Ground Floor	81.15	m2	84.00	6816.60
			69.15	m2	84.00	5808.60
		1st Floor	69.15	m2	84.00	5808.60
		2nd Floor				


 Divisional Forest Officer
 Silviculture Division

Countersigned


 GCF / NO. 13

18	PWD Bids p-54 k-15 (a) 3rd no Cont.	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. (B) Wall With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. b) Area of each tile above 0.09 Sq.m (i) Coloured decorative	20.48	M2	1098.00	22481.55
19	PWD Bids p-54 k-20	Supplying, fitting and fixing 18 mm. to 22 mm. thick kota stone slab in wall, dado in 15 mm thick [avg] cement mortar (1:3) including making suitable arrangement to hold the stone properly by brass / copper hooks including pointing in cement mortar (1:2) (1 cement : 2 marble dust) with admixture of pigments matching the stone shade, including grinding and polishing all complete as per direction of Engineer-in-charge including cost of materials, labour, scaffolding, staging, curing complete. [Using cement slurry for bedding @4.4 kg/Sq.m and for jointing @1.8 kg/Sq.m]	13.25	M2	1150.00	15231.75
		Ground Floor	13.25	M2	1150.00	15231.75
		1st Floor	13.25	M2	1150.00	15231.75
		2nd Floor	13.25	M2	1150.00	15231.75

[Signature]
 Divisional Forest Officer
 Ballabhapur Division

Countersigned

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20	PWD.Bids.p-66,1-36	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor) (I) With application slurry @1.75 kg/ Sq.m, 20 mm sand cement mortar (1:4) & 2 mm thick cement slurry at back side of tiles, 0.2 kg/ Sq.m white cement for joint filling with pigment. (A) Deep Colour & White Ground Floor	7.39	M2	1688.00	12470.10
		1st Floor	35.35	M2	1688.00	59666.58
		2nd Floor	35.35	M2	1688.00	59666.58
21	PWD.Bids.p-105,1-22	Supplying, fitting and fixing Stainless Steel railing consist of 38mm dia and 900mm height vertical balustrade at every two alternative steps, 50mm dia top rail, 3 (three) nos 19mm dia horizontal Stainless steel pipe and base/cover plate with Strainless Steel GRADE 304 containing 7.5% nickle (Interior Grade) Brushed/Mat finish, complete as per direction of the Engineer-in-charge. Weight of Strainless Steel railing per metre 8.5 Kg (approx Ground Floor	7.90	m	9077.00	71708.30
		1st Floor	17.90	m	9077.00	162478.30
		2nd Floor	17.90	m	9077.00	162478.30
		3rd Floor	8.00	m	9077.00	72616.00
22	PWD.Bids.p-115,1-3	Supplying fitting and fixing fiber reinforced polymer composite door frame as per approved section with glass fibre technology of department of science and technology to satisfy IS 4020 door testing performance criteria in ground i) 66 mm x 90 mm	4.95	m	497.00	2460.15


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23	PWD, Bids, p-125, i-14	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. i) 25 mm thick	1.58	m2	2581.00	4055.08
24	PWD, Bids, p-114, i-1	wood work in door and windows frame and fixed complete including a protective coat of painting at the surface of the frame. excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals). c) sal : siliguri.	0.14	m3	81936.00	11798.78
		1st Floor	0.14	m3	82136.00	11827.58
		2nd Floor	0.14	m3	82336.00	11856.38
25	PWD, Bids, p-117, i-1	Panel shutter of door and window, as per design (each panel consisting of ground floor. ii) 35 mm thick shutter with 19 mm thick panel b) Sishu, Gamar, Champbadam, Bhola, Mogra, Halak	4.90	m2	2789.00	13666.10
		1st Floor	4.90	m2	2789.00	13666.10
		2nd Floor	4.90	m2	2789.00	13666.10
26	PWD, Bids, p-140, i-4	M.S. Clamp for fixing door and window frame made of flat bent bar, end bifurcated, fixed in cement concrete with stone chips (4:2:1) fitted and fixed complete as per direction. B) 40mm x 6mm, 200mm length	30	Each	25.00	750.00
27	PWD, Bid s, p-140, i-5	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. (vi) 100mm. X 50mm. X 1.25mm.	54	Each	43.00	2322.00
28	PWD, Bid s, p-141, i-10	i) Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting.	3	Each	166.00	498.00
29	PWD, Bid s, p-141, i-9	Iron skeleton bolt of approved quality fitted and fixed complete. (a) 375mm long x 10mm dia rod.	18	Each	92.00	1656.00
30	PWD, Bid s, p-141, i-8	Iron socket bolt of approved quality fitted and fixed complete. (c) 150mm long x 10mm dia bolt.	3	Each	63.00	189.00
31	PWD, Bid s, p-141, i-7	Iron catch hook of approved quality fitted and fixed to shutter and chowkat (b) 6mm dia x 225mm long.	6	Each	64.00	384.00
32	PWD, Bids p145, i-30	Anodized aluminium D type handle of approved quality (I.S 230/72) fitted and fixed complete. A) With continuous plate base (hexagonal / round rod) (ii) 100 mm grip x 10 mm dia rod.	12	Each	69.00	828.00

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33	PWD Bids, p-104, i-13	(a) M.S. or W.I. Ornamental grill of approved design joints continuously welded with M.S. W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. (Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. floor above 4th floor)(ii) Grill weighing above 16 Kg./sq.mtr and above Ground Floor	0.46	Qntl.	9827.00	4528.28
		1st Floor	0.46	Qntl.	9898.78	4561.36
		2nd Floor	0.46	Qntl.	9970.56	4594.43
34	PWD Bids, p-212, i-21	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (ii) 110 mm. Dia.	46.00	M	251.00	11546.00
		c) Bend 87.5 degree(ii) 110 mm. Dia.	10.00	Each	160.00	1600.00
		a) Plain Tee(ii) 110 mm. Dia.	10.00	Each	172.00	1720.00
35	PWD Bids, p-40, i-30	Supplying, fitting and fixing Fan Hook for ceiling with 1 metre long 16mm. dia rod complete including mending damages. Payment for damage and repair to be made separately.	10.00	Nos.	100.00	1000.00
36	PWD Bids, p-200, i-1	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	50.00	m2	29.00	1450.00
37	PWD Bids, p-200, i-1	(b) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	60.00	m2	38.00	2280.00
38	PWD Bids, p-200, i-2	(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 : (b) On steel or other metal surface : (iv) Two coats (with any shade except white) iv) Two coats (with any shade except white)	50.00	m2	77.00	3850.00
		(a) On timber or plastered surface : iv) Two coats (with any shade except white)	60.00	m2	81.00	4860.00
		Sanitary & Plumbing Work				


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	PWD, S&PS p-29, i-1	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007, with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbow, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder base clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. (a) For Exposed Work (i) CPVC Pipes Class-1, SDR-11 25 mm	20	M	208.00	4160.00
		40 mm	15.00	M	403.00	6045.00
		(b) For Concealed Work (i) CPVC Pipes Class-1, SDR-11 15 mm	10.00	M	140.00	1400.00
0	PWD, S&PS p-80, i-7	Supplying, fitting and fixing Squaring plate with integral flushing in white vitreous china ware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid separately). (i) 450 mm X 350 mm	1.00	Each	881.00	881.00
1	PWD, S&PS p-80, i-6	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete. (ii) 470 mm x 280 mm x 340 mm	1.00	Each	945.00	945.00
2	PWD, S&PS p-79, i-4	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing). (i) 580 mm x 440 mm	1.00	Each	1613.00	1613.00
3	PWD, S&PS p-41, i-1	Wash basin white vitreous china of approved make wood blocks and C.I. Brackets including two coats painting of C.I. bracket. (iii) 630 mm X 450 mm size 1st floor.	1.00	Each	2435.00	2435.00
4	PWD, S&PS p-41, i-3	Supplying fitting and fixing pedestal of approved make for washbasin. (white)	1.00	Each	1497.00	1497.00
5	PWD, S&PS p-43, i-9	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia. (ii) 450 mm long	2.00	Each	82.00	164.00


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46	PWD, S&P, p-36, i-2	Supplying fitting and fixing 10 ltr P.V.C low down cistern conforming to I.S. Specification with P.V.C fitting C.I brackets including two coats of painting to bracket etc. 1st floor.	1.00	Each	1015.00	1015.00
47	PWD, S&P, s.p-43, i-9	Supplying, fitting and fixing approved brand 32 mm dia. P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. (ii) 750 mm long	2.00	Each	59.00	118.00
48	PWD, S&P, p-6, i-7,	Supplying, fitting and fixing bib cock or stop cock. C)(ii) Chromium plated Bib Cock with wall flange (Equivalent to Code No. 5047 & Model - Florentine of Jaquar or similar brand).	4.00	Each	861.00	3444.00
		(b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar	4.00	Each	493.00	1972.00
49	PWD, S&P, p-5, i-5	Supplying, fitting, fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq cm (for water lines only)	2.00	Each	1590.00	3180.00
		(v) 40 mm dia	2.00	Each	778.00	1556.00
		(vii) 25 mm dia				
50	PWD, S&P, s.p-37, i-6	Supplying P.V.C. Water storage tank of approved quality with closed top wild (black) multiplier. (a) 500 litre capacity. 1st floor.	2.00	Each	2584.00	5168.00
51	PWD, S&P, p-30, i-2 (I)	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007(I) Tank connecting nipple 25 mm	2.00	Each	115.00	230.00
		40 mm	2.00	Each	190.00	380.00
52	PWD, S&P, p-65, i-14	Supplying, fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989/ 2009 and 1729/ 2002 including lead caulked joints and painting two coats to the exposed surface. A)	2.00	Each	948.00	1896.00
		'P' trap iii) 100 mm dia				
53	PWD, S&P, p-68, i-23	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992(b) 110 mm	10.00	M	292.00	2920.00
54	PWD, S&P, p-86, i-3 (7th Com)	Construction of Septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (4:1) including two 560 mm dia R.C.C. manhole cover of approved make supplied, fitted and fixed in the top fitting and fixing all necessary specials, fittings S.W. tees, C.I. foot rest etc. proofing compound @ 5% by weight of cement, complete in all respect as per direction of Engineer-in-charge. (ii) For 20 users B) With Bazree (N.B Varity) (SAIL/TATA/RINL)	1	Each	44747.00	44747.00


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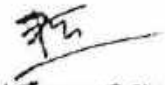
	PWD, S&ps, p-83, i-4 (7th Corri)	Construction of circular soak well 2.5 metre deep in all types of sandy soils with dry brick work upto 1.6 metre from the bottom having 150 mm intermediate cement brick work (6:1) band all round and cement brick work (6:1) upto 0.90 metre from top with 19 mm thick cement plastering (4:1) to inside face upto the depth of cement brick work, 12 mm thick cement plaster (4:1) on outer face from top of the well with brick metal (50 mm to 63 mm size) including R.C.C. cover slab of as per direction complete in all respect with all costs of labour and materials. a) With 250 mm thick dry brick work and 250 mm thick cement brick work (6:1) and 1.00 m inside dia.	1	Each	15584.00	15584.00
56	PWD, S&ps, p-88, i-23(B)	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992(B) Fittings(ii) Plain Tee (b) 110 mm	2	Each	85	170.00
		iii) Door Tee (b) 110 mm	2	Each	195	390.00
		xii) Door Bend (LH) & (RH)(b) 110 mm	2	Each	284	568.00
		x) Bend 87.5°(b) 110 mm	2	Each	120	240.00
		xvi) Pipe Clip	10	Each	21	210.00
		xxxi) Plain Floor Trap with Top tile & Strainer 75 mm	5	Each	144	720.00
57	PWD, S&ps, p-33, i-2(Q)	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007 (Q) Ball Valve 40 mm	4	Each	553	2212.00
		(P) Pipe Clip 25 mm	10	Each	5	50.00
		40 mm	5	Each	15	75.00
58	PWD, S&ps, p-67, i-18	Supplying fitting and fixing C.I. Round grating i) 100 mm dia	5.00	Each	62.00	310.00
59	PWD, S&ps, p-82, i-19	Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I. specifications supported on fibre glass frame of any colour, frame size 550 mm X 400 mm	3.00	Each	613.00	1839.00
60	PWD, S&ps, p-83, i-23	porcelain toilet paper holder of approved make with wooden spindle as necessary. Box type size ii) 175mm x 150 mm	1.00	Each	338.00	338.00
61	PWD, S&ps, p-83, i-24	Supplying, fitting and fixing porcelain soap tray approved make. Recessed soap tray of size 150x150 mm	1.00	Each	338.00	338.00
62	PWD, S&ps, p-82, i-18	Supplying, fitting and fixing soap holder. (a) PTMT (Prayag or equivalent)	1.00	Each	135.00	135.00


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63	PWD, S&P, P-74, I-24	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials. (B) Under ground (ii) 110 mm dia.	10.00	M	84.00	840.00
64	PWD, S&P, S.p-82, I-22	Supplying, fitting, fixing towel rail with two bracket a) CP over brass iii) 25 mm dia and 750mm long	2.00	Each	475.00	950.00
65	PWD, S&P, S.p-37, I-10	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity. (a) Upto 1st story from G.L.	10.00	Each	96.00	960.00
66	PWD, B&S, P-101, I-24	M.S. structural works with hollow sections (square or rectangular shape) conforming to IS: 806-1968 & IS: 1161-1998) connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & size, fabrication including metal arc welding conforming to IS: 816-1969 & IS: 9595 using electrodes of approved make and brand conforming to IS: 814-2004, haulage, hoisting and erection all complete. The rate includes the cost of all M.S. Hollow section, all consumables such as electrodes, gas and hire charges of all tools and plants and labour required for execution and all incidental charges (such as electricity, labour insurance) etc. complete. i) For roof truss works a) Span up to 12 Mtr	1.6	Mtr	74284.00	118854.40
67	PWD, B&S, P-82, I-14	Supplying, fitting & fixing Zn-Al alloy (55% Al & 45% Zn) coating of 150 grams per sq. metre (followed by colour coated on both side) steel sheet work having minimum yield strength of 550 Mpa of trapezoidal profile of approved make (excluding the supporting frame work) fitted and fixed with 55 mm & 25 mm self tapping screw, EPDM Washer 16 mm dia & 3 mm th. washer etc. complete with 150 mm end lap and one corrugation minimum side lap. (Payment to be made on area of finished work). (i) In Roof:- a) With 0.5 mm thick sheet	21.00	m ²	896.00	18816.00


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68	PWD, Bids, p-83, 10	Galvanised iron sheet ridging fitted with necessary bolts, screws, washers etc complete. (225mm end lapping) A) 300 mm lapping each way b) With 0.63 mm sheet	15.60 m	380.00	5928.00
69	PWD, Bids, p-251 1-1 (iii) (f) 3rd no Corrl.	Digging earth in any soil including mixed soil but excluding moorum, laterite sand stone or any other hard stone including spreading or stacking the spoils within a lead of 75 metres as directed bailing out water upto 1 metre depth, shoring etc., when and if required and back filling with fine sand (including cost of sand) on completion of steining works. ii) 1.5 metre diameter of digging for 1.2 metre internal diameter of well ring. f) Beyond 15 metre upto 18 metre below G.L.	18.00 M	1183.00	21294.00
70	PWD, Bids, p-256 1-2 (b) 3rd no Corrl.	R.C.C. well ring made with cement concrete 1:1.5:3 with stone chips and 0.80% reinforcement (including the cost of shuttering and reinforcement) cast at site fitted and fixed in position after proper curing true to plumb in the well including jointing with cement mortar 1:2 complete as per direction c) 75 mm thick and 1.5 metre internal dia. Cement for joint filling-8 Kg/m	18.00 M	2023.00	36414.00
71	Rate Analysis	Supplying Sign Board (1500mmx900mm) made of M.S angle frame (50x50x6) . Sheet (0.50 mm) fitting fixing such with digging holes of dia 450 mm and depth 750 mm in all sorts of soil and repacking and consolidation the gap around the post with cement concrete (1:3:6) including priming, two coat painting & lettering both side etc complete in all respect as per direction of the Engineer-in-charge. payment of concrete to be made separately.	1.00	Each	10277.41
Total			A	Gross Total	2177228.12
Add 18 % GST					391901.06
					2569129.18
Add Labour Welfare CESS 1%			B		25691.29
					2594820.47
Electrification 12 % on (C)			C		311378.46
				Rs.	2906198.92
Contingencies @ 3.00 % (on B)			D		77073.88
			E		2983272.80
Total			D+E		2983273.00
Say					

Vetted
[Signature]

Executive Engineer
Siliguri Jalpaiguri Development Authority
Jalpaiguri

[Signature]
Divisional Forest Officer
Baikunthapur Division

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Estimate of Watch Tower (S.L -1) at Totgaon Mouza, Targhera Range, Baikunthapur Division

Complete Rates are as per P.W.D. Bids. / S&P Schedule w.e.f. 01/11/17 and 10th no. Corri. & addenda.

SI No	Ref	Description of Items	Quantity	Unit	Rate	Amount
1	PWD, Bids, p-1, i-2	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 a) Depth of excavation not exceeding 1,500 mm.	94.21	m3	119.27	11236.19
2	PWD, Bids, p-1, i-3	Earth work in filling in foundation trenches or plinth with good earth in layer not exceeding 150 cm including watering and rammers etc. layer by layer complete .a) With earth obtained from excavation of foundation trenches.	47.10	m3	77.54	3652.44
3	PWD, Bids, p-2, i-4	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) B) Do - by fine sand	8.44	M3	633.27	5343.22
4	PWD Bldg. schedule (Rate Analysis)	Laying 150mm (approximate finished thickness) boulder soling including rough dressing, breaking necessary hand packing and ramming down small stone pieces in the interstices including rolling and repairing the bed of proper level camber with necessary cushioning over bed and ultimate filling of voids with moorum or sand or kiln rubbish including cost of all materials but excluding cost of boulders	36.00	M2	248.15	8933.40
5	p-24, i-4	Ordinary Cement concrete (mix 1:2:4) M-15 with graded stone chips (20 mm size) excluding shuttering and reinforcement, if any as per relevant IS code. NB variety	6.52	m3	4006.00	26119.12
6	p-26, i-10	Ordinary Cement concrete (mix 1:1.5:3) M-20 with graded stone chips (20 mm down) excluding shuttering and reinforcement, if any. In ground floor as per IS 456-2000. NB variety	30.20	m3	4745.00	143308.49
		Ground Floor	11.36	m3	4840.00	55001.76
		1st Floor	11.36	m3	4935.00	56081.34
		2nd Floor	1.60	m3	5030.00	8048.00
		3rd Floor				


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	PWD, Bids, p-42, j-36	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns lintels curved or straight including fitting, fixing and striking out after completion of works (upto Plinth) 25 mm to 30 mm shuttering without staging in foundation	34.64	m2	203.00	7101.20
		a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of the EIC Ground Floor	113.85	m2	328.00	37342.80
		1st Floor	86.35	m2	348.00	29877.10
		2nd Floor	86.35	m2	364.00	31431.40
		3rd Floor	16.00	m2	382.00	6112.00
8	PWD, Bids, p-44, j-40	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.				
		Ground Floor	3.32	MT	60315.28	200198.47
		1st Floor	1.12	MT	60745.28	67736.61
		2nd Floor	1.12	MT	61175.28	68216.10
		3rd Floor	0.16	MT	61605.28	9672.03
9	PWD, Bids, p-45, j-41	Brick work with 1st class bricks in cement mortar (1:4), (b) In superstructure, ground floor	6.33	m3	5395.00	34150.35
10	PWD, Bids, p-16, j-16	125 mm thick work with 1st bricks in cement mortar . Ground Floor	8.55	m2	674.00	5762.70
		1st Floor	25.32	m2	715.00	18103.80
		2nd Floor	25.32	m2	756.00	19141.92
11	PWD, Bids, p-188, j-1	Plaster with sand and cement mortar including rounded off or chamfering corner as directed and raking out joints including throatig, nosing and drip course, scaffolding/staging where necessary (ii) With 1:4 cement mortar				
		b) 15 mm thick (1 : 4) Ground Floor	68.93	m2	157	10821.23
		1st Floor	51.41	m2	161	8277.41
		2nd Floor	67.41	m2	165	11123.06
		b) 20 mm thick (1 : 4) Ground Floor	81.15	m2	181	14688.15
		1st Floor	69.15	m2	185	12792.75
		2nd Floor	69.15	m2	189	13069.35
12	P-192, j-15	Neat cement punning about 1.5 mm, thick in wall, dado, Ground floor	12.00	m2	34.00	408.00

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13	PWD, Bids, p-195, i-7	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (b) Two Coats i) water based interior grade acrylic primer. Ground Floor	68.93	m2	44.20	3046.49
			51.41	m2	44.91	2308.94
		1st Floor	67.41	m2	45.62	3075.36
		2nd Floor				
14	PWD, Bids, p-196, i-8	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (b) Two coats Ground Floor	81.15	m2	45.10	3659.87
			69.15	m2	45.10	3118.67
		1st Floor	69.15	m2	45.10	3118.67
		2nd Floor				
15	PWD, Bids, p-198, i-5	Rendering the surface of wall and ceiling with white cement based wall putty of approved make and brand (1.5 mm thick). Ground Floor	150.08	m2	122.00	18309.15
			120.56	m2	194.00	23389.13
		1st Floor	136.56	m2	266.00	36325.63
		2nd Floor				
16	PWD, Bids, p-201, i-4	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) : (Two coats) ii) Luxury Quality	68.93	m2	70.00	4824.75
			69.15	m2	70.71	4889.60
		1st Floor	67.41	m2	71.42	4814.60
		2nd Floor				
17	PWD B S, P-197, i-17	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. In Ground floor (Two Coat) b) Premium 100% Acrylic Emulsion Ground Floor	81.15	m2	84.00	6816.60
			69.15	m2	84.00	5808.60
		1st Floor	69.15	m2	84.00	5808.60
		2nd Floor				

Signature
 Additional Forest Officer
 Baikunthapur Division

Countersigned

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18	PWD Bids, p-34, i-35 (a) 3rd no Corri.	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. (B) Wall With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. b) Area of each tile above 0.09 Sq.m (i) Coloured decorative	20.48	M2	1098.00	22481.55
19	PWD Bids, p-54, i-20	Supplying, fitting and fixing 18 mm. to 22 mm. thick kota stone slab in wall, dado in 15 mm thick [avg] cement mortar (1:3) including making suitable arrangement to hold the stone properly by brass / copper hooks including pointing in cement mortar (1:2) (1 cement : 2 marble dust) with admixture of pigments matching the stone shade, including grinding and polishing all complete as per direction of Engineer-in-charge including cost of materials, labour, scaffolding, staging, curing complete. [Using cement slurry for bedding @4.4 kg/Sq.m and for jointing @1.8 kg/Sq.m]	13.25	M2	1150.00	15231.75
		Ground Floor	13.25	M2	1150.00	15231.75
		1st Floor	13.25	M2	1150.00	15231.75
		2nd Floor	13.25	M2	1150.00	15231.75


 Divisional Forest Officer
 Baikunthapur Division

Counter

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Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc, set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor) (I) With application slurry @ 1.75 kg/ Sq.m, 20 mm sand cement mortar (1:4) & 2 mm thick cement slurry at back side of tiles, 0.2 kg/ Sq.m white cement for joint filling with pigment. (A) Deep Colour & White Ground Floor

P.W.D. Bids, p-66, i-36

7.39 M2 1688.00 12470.10

35.35 M2 1688.00 59666.58

35.35 M2 1688.00 59666.58

1st Floor

2nd Floor

21

P.W.D. Bids, p-109, i-22

Supplying, fitting and fixing Stainless Steel railing consist of 38mm dia and 900mm height vertical balustrade at every two alternative steps, 50mm dia top rail, 3 (three) nos 19mm dia horizontal Stainless steel pipe and base/cover plate with Stainless Steel GRADE 304 containing 7.5% nickel (Interior Grade) Brushed/Mat finish, complete as per direction of the Engineer-in-charge. Weight of Stainless Steel railing per metre 6.5 Kg (approx Ground Floor

7.90 m 9077.00 71708.30

17.90 m 9077.00 162478.30

17.90 m 9077.00 162478.30

8.00 m 9077.00 72616.00

1st Floor

2nd Floor

3rd Floor

22

P.W.D. Bids, p-115, i-3

Supplying fitting and fixing fiber reinforced polymer composite door frame as per approved section with glass fibre technology of department of science and technology to satisfy IS 4020 door testing performance criteria in ground i) 66 mm x 90 mm

4.95 m 497.00 2460.15

Divisional Forest Officer
Balkunthapur Division

Countersigned

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23	PWD Bids, p-125, i-14	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. i) 25 mm thick	1.58	m ²	2581.00	4065.08
24	PWD Bids, p-114, i-1	wood work in door and windows frame and fixed complete including a protective coat of painting at the surface of the frame, excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals). c) sal : siliguri.	0.14	m ³	81938.00	11798.78
		1st Floor	0.14	m ³	82136.00	11827.58
		2nd Floor	0.14	m ³	82336.00	11856.38
25	PWD Bids, p-117, i-1	Panel shutter of door and window, as per design (each panel consisting of ground floor. iii) 35 mm thick shutter with 19 mm thick panel b) Sishu, Gamar, Champbadam, Bhola, Mogra, Halak	4.00	m ²	2788.00	13608.10
		1st Floor	4.00	m ²	2788.00	13608.10
		2nd Floor	4.00	m ²	2788.00	13608.10
26	PWD Bids, p-140, i-4	M.S. Clamp for fixing door and window frame made of flat bent bar, end bifurcated, fixed in cement concrete with stone chips (4:2:1) fitted and fixed complete as per direction. B) 40mm x 6mm, 200mm length	30	Each	26.00	750.00
27	PWD Bid s, p-140, i-5	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. (vi) 100mm. X 50mm. X 1.25mm.	54	Each	43.00	2322.00
28	PWD, Bid s, p-141, i-10	i) Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting.	3	Each	166.00	498.00
29	PWD, Bid s, p-141, i-9	Iron skeleton bolt of approved quality fitted and fixed complete. (a) 375mm long x 10mm dia rod.	18	Each	92.00	1656.00
30	PWD, Bids, p-141, i-8	Iron socket bolt of approved quality fitted and fixed complete. (c) 150mm long x 10mm dia bolt.	3	Each	63.00	189.00
31	PWD, Bid s, p-141, i-7	Iron catch hook of approved quality fitted and fixed to shutter and chowkat. (b) 6mm dia x 225mm long.	6	Each	64.00	384.00
32	PWD, Bids, p-145, i-30	Anodized aluminium D type handle of approved quality (I.S 230/72) fitted and fixed complete. A) With continuous plate base (hexagonal / round rod) (ii) 100 mm grip x 10 mm dia rod.	12	Each	69.00	828.00

[Signature]
 Dy. Principal Foreman Officer
 Belkumbhagar Division

Countersigned

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 CCF / NO / WB

33	PWD Bids p-104 i-13	(a) M.S. or W.I. Ornamental grill of approved design joints continuously welded with M.S. W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. (Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% mfor each addl. floor above 4th floor)(ii) Grill weighing above 16 Kg./sq.mtr and above Ground Floor	0.48	Qntl.	9827.00	4528.28
			0.48	Qntl.	9898.78	4581.36
		1st Floor	0.48	Qntl.	9970.56	4594.43
		2nd Floor				
34	PWD Bids p-212 i-21	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (ii) 110 mm. Dia.	46.00	M	251.00	11546.00
			10.00	Each	160.00	1600.00
		c) Bend 87.5 degree(ii) 110 mm. Dia.	10.00	Each	172.00	1720.00
		a) Plain Tee(ii) 110 mm. Dia.				
35	PWD Bids p-40 i-30	Supplying, fitting and fixing Fan Hook for ceiling with 1 metre long 16mm. dia rod complete including mending damages. Payment for damage and repair to be made separately.	10.00	Nos.	100.00	1000.00
36	PWD Bids p-200 i-1	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	50.00	m2	29.00	1450.00
37	PWD Bids p-200 i-1	(b) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	60.00	m2	38.00	2280.00
38	PWD Bids p-200 i-2	(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 : (b) On steel or other metal surface : (iv) Two coats (with any shade except white) (v) Two coats (with any shade except white)	50.00	m2	77.00	3850.00
		(a) On timber or plastered surface : (iv) Two coats (with any shade except white)	60.00	m2	81.00	4860.00
		Sanitary & Plumbing Work				

[Signature]
Divisional Forest Officer
Balkunthapur Division

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	PWD, S&ps, p-29, i-1	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. (a) For Exposed Work (i) CPVC Pipes Class-1, SDR-11 25 mm	20	M	208.00	4160.00
			15.00	M	403.00	6045.00
		40 mm				
		(b) For Concealed Work (i) CPVC Pipes Class-1, SDR-11 15 mm	10.00	M	140.00	1400.00
40	PWD, S&ps, p-80, i-7	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous china ware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid separately). (i) 450 mm X 350 mm	1.00	Each	881.00	881.00
41	PWD, S&ps, p-80, i-6	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete . ii) 470 mm x 280 mm x 340 mm	1.00	Each	945.00	945.00
42	PWD, S&ps, p-79, i-4	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing). i) 580 mm x 440 mm	1.00	Each	1613.00	1613.00
43	PWD, S&ps, p-41, i-1	Wash basin white vitreous china of approved make wood blocks and C.I. Brackets including two coats painting of C.I bracket . (iii) 630 mm X 450 mm size 1st floor.	1.00	Each	2435.00	2435.00
44	PWD, S&ps, p-41, i-3	Supplying fitting and fixing pedestal of approved make for washbasin. (white)	1.00	Each	1497.00	1497.00
45	PWD, S&ps, p-43, i-9	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia. (ii) 450 mm long	2.00	Each	82.00	164.00


 Divisional Forest Officer
 Balakrishna Division

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46	PWD, S&ps, p-36, i-2	Supplying fitting and fixing 10 ltr P.V.C low down cistern conforming to I.S. Specification with P.V.C fitting C.I brackets including two coats of painting to bracket etc. 1st floor.	1.00	Each	1015.00	1015.00
47	PWD, S&ps, p-43, i-9	Supplying, fitting and fixing approved brand 32 mm dia. P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. (ii) 750 mm long	2.00	Each	59.00	118.00
48	PWD, S&ps, p-6, i-7.	Supplying, fitting and fixing bib cock or stop cock. C)(ii) Chromium plated Bib Cock with wall flange (Equivalent to Code No. 5047 & Model - Florentine of Jaquar or similar brand).	4.00	Each	861.00	3444.00
		(b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar	4.00	Each	493.00	1972.00
49	PWD, S&ps, p-5, i-5	Supplying, fitting, fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq cm (for water lines only)	2.00	Each	1590.00	3180.00
		(v) 40 mm dia	2.00	Each	778.00	1556.00
50	PWD, S&ps, p-37, i-8	(vii) 25 mm dia				
		Supplying P.V.C. Water storage tank of approved quality with closed top wild (black) multiplier (a) 500 litre capacity. 1st floor.	2.00	Each	2584.00	5168.00
51	PWD, S&ps, p-30, i-2(ii)	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007(I) Tank connecting nipple 25 mm	2.00	Each	115.00	230.00
		40 mm	2.00	Each	190.00	380.00
52	PWD, S&ps, p-65, i-14	Supplying, fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989/ 2009 and 1729/ 2002 including lead caulked joints and painting two coats to the exposed surface. A) 'P' trap iii) 100 mm dia	2.00	Each	948.00	1896.00
53	PWD, S&ps, p-68, i-23	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992(b) 110 mm	10.00	M	292.00	2920.00
54	PWD, S&ps, p-88, i-3 (7th Com)	Construction of Septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (4:1) including two 560 mm dia R.C.C. manhole cover of approved make supplied, fitted and fixed in the top fitting and fixing all necessary specials, fittings S.W. tees, C.I. foot rest etc. proofing compound @ 5% by weight of cement, complete in all respect as per direction of Engineer-in-charge. (ii) For 20 users B) With Bazree (N.B Varity) (SAIL/TATA/RINL)	1	Each	44747.00	44747.00


Divisional Forest Officer
 Malkunthapur Division

55	PWD, S&ps, p-83, i-4 (7th Corri)	Construction of circular soak well 2.5 metre deep in all types of sandy soils with dry brick work upto 1.6 metre from the bottom having 150 mm intermediate cement brick work (6:1) band all round and cement brick work (6:1) upto 0.90 metre from top with 19 mm thick cement plastering (4:1) to inside face upto the depth of cement brick work, 12 mm thick cement plaster (4:1) on outer face from top of the well with brick metal (50 mm to 63 mm size) including R.C.C. cover slab of as per direction complete in all respect with all costs of labour and materials. a) With 250 mm thick dry brick work and 250 mm thick cement brick work (6:1) and 1.00 m inside dia.	1	Each	15584.00	15584.00
56	PWD, S&ps, p-88, i-23(B)	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992(B) Fittings(ii) Plain Tee (b) 110 mm	2	Each	85	170.00
		iii) Door Tee (b) 110 mm	2	Each	195	390.00
		xii) Door Bend (LH) & (RH)(b) 110 mm	2	Each	284	568.00
		x) Bend 87.5°(b) 110 mm	2	Each	120	240.00
		xvi) Pipe Clip	10	Each	21	210.00
		xxxi) Plain Floor Trap with Top tile & Strainer 75 mm	5	Each	144	720.00
57	PWD, S&ps, p-33, i-2(Q)	Supply of Chlorinated Polyvinyl Chloride (CPVC) pipes & fittings conforming to IS-15778: 2007 (Q) Ball Valve 40 mm	4	Each	553	2212.00
		(P) Pipe Clip 25 mm	10	Each	5	50.00
		40 mm	5	Each	15	75.00
58	PWD, S&ps, p-57, i-18	Supplying fitting and fixing C.I. Round grating i) 100 mm dia	5.00	Each	62.00	310.00
59	PWD, S&ps, p-82, i-19	Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I. specifications supported on fibre glass frame of any colour, frame size 550 mm X 400 mm	3.00	Each	613.00	1839.00
60	PWD, S&ps, p-83, i-23	porcelain toilet paper holder of approved make with wooden spindle as necessary. Box type size ii) 175mm x 150 mm	1.00	Each	338.00	338.00
61	PWD, S&ps, p-83, i-24	Supplying, fitting and fixing porcelain soap tray approved make. Recessed soap tray of size 150x150 mm	1.00	Each	338.00	338.00
62	PWD, S&ps, p-82, i-18	Supplying, fitting and fixing soap holder. (a) PTMT (Prayag or equivalent)	1.00	Each	135.00	135.00

[Signature]
 Divisional Forest Officer
 Ballunthapur Division

Countersigned

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63	PWD, S&P, p-74, i-24	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials. cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials.(B) Under ground(ii) 110 mm dia.	10.00	M	84.00	840.00
64	PWD, S&P, p-82, i-22	Supplying, fitting, fixing towel rail with two bracket a) CP over brass iii) 25 mm dia and 750mm long	2.00	Each	475.00	950.00
65	PWD, S&P, p-37, i-10	Labour for hoisting plastic water storage tank.(i) Upto 1500 litre capacity. (a) Upto 1st story from G.L.	10.00	Each	96.00	960.00
66	PWD, Bids, p-101, i-2A	M.S. structural works with hollow sections (square or rectangular shape) conforming to IS: 806-1968 & IS:1161-1998) connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & size, fabrication including metal arc welding conforming to IS: 816-1969 & IS: 9595 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of all M.S. Hollow section, all consumables such as electrodes, gas and hire charges of all tools and plants and labour required for execution and all incidental charges (such as electricity, labour insurance) etc. complete. i) For roof truss works a) Span up to 12 Mtr	1.6	MT	74284.00	118854.40
67	PWD, Bids, p-82, i-14	Supplying, fitting & fixing Zn-Al alloy (55% Al & 45% Zn) coating of 150 grams per sq. metre (followed by colour coated on both side) steel sheet work having minimum yield strength of 550 Mpa of trapizoidal profile of approved make (excluding the supporting frame work) fitted and fixed with 55 mm & 25 mm self tapping screw, EPDM Washer 16 mm dia & 3 mm th. washer etc. complete with 150 mm end lap and one corrugation minimum side lap. (Payment to be made on area of finished work).(i) In Roof:- a) With 0.5 mm thick sheet	21.00	m2	896.00	18816.00


Divisional Forest Officer
Balkumbhapur Division

Counter signed

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68	PWD, Bids, p-81, 10	Galvanised iron sheet ridging fitted with necessary bolts, screws, washers etc complete. (225mm end lapping) A) 300 mm lapping each way b) With 0.63 mm sheet	15.60 m		380.00	5928.00
69	PWD, Bids, p-251 I-1 (ii)(f) 3rd no Corri.	Digging earth in any soil including mixed soil but excluding moorum, laterite sand stone or any other hard stone including spreading or stacking the spoils within a lead of 75 metres as directed bailing out water upto 1 metre depth, shoring etc., when and if required and back filling with fine sand (including cost of sand) on completion of steining works. ii) 1.5 metre diameter of digging for 1.2 metre internal diameter of well ring. f) Beyond 15 metre upto 18 metre below G.L.	18.00 M		1183.00	21294.00
70	PWD, Bids, p-256 I-2(b) 3rd no Corri.	R.C.C. well ring made with cement concrete 1:1.5:3 with stone chips and 0.80% reinforcement (including the cost of shuttering and reinforcement) cast at site fitted and fixed in position after proper curing true to plumb in the well including jointing with cement mortar 1:2 complete as per direction. c) 75 mm thick and 1.5 metre internal dia Cement for joint filling-8 Kg/m	18.00 M		2023.00	36414.00
71	Rate Analysis	Supplying Sign Board (1500mmx900mm) made of M.S angle frame (50x50x6), Sheet (0.50 mm) fitting fixing such with digging holes of dia 450 mm and depth 750 mm in all sorts of soil and repacking and consolidation the gap around the post with cement concrete (1:3:6) including priming, two coat painting & lettering both side etc complete in all respect as per direction of the Engineer-in-charge. payment of concrete to be made separately.	1.00	Each	10277.41	10277.41
Total			A	Gross Total		2177228.12
Add 18 % GST						391901.06
			B			2569129.18
Add Labour Welfare CESS 1%						25691.29
			C			2594820.47
Electrification 12 % on (C)				Rs.		311378.46
			D			2906198.92
Contingencies @ 3.00 % (on B)			E			77073.88
Total			D+E			2983272.80
Say						2983273.00

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Executive Engineer
 Siliguri Jalpaiguri Development Authority
 Jalpaiguri


 Divisional Forest Officer
 Jalpaiguri Division

Countersigned

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SL. NO. DESCRIPTION OF ITEM

NO	L	B	H	QUANTITY	UNIT
1	6.40	6.40	2.30	94.21	M3
2	50% of Excavated Earth		94.21	94.21	M3
3	3.75	3.75	0.60	47.10	M3
4	6.00	6.00		8.44	M3
5	6.00	6.00		36.00	M2
6	3.20	0.25	0.150	36.00	M2
7	3.20	0.25	0.350	5.40	M3
8	3.20	0.25	0.350	1.12	M3
9	3.20	0.25	0.350	6.52	M3
10	5.80	5.80	0.40	13.46	M3
11	0.60	0.60	1.20	1.73	M3
12	3.20	0.25	0.400	1.28	M3
13	0.40	0.40	0.350	0.22	M3
14	3.20	0.250	0.400	1.28	M3
15	0.40	0.400	3.000	1.92	M3
16	5.60	0.250	0.450	2.52	M3
17	4.00	4.000	0.150	2.40	M3
18	14.10	1.200	0.150	2.54	M3
19	1.20	1.200	0.150	0.43	M3
20	1.20	0.150	0.250	0.41	M3
21	1.70	1.200	0.150	0.31	M3
22	1.50	1.200	0.150	0.27	M3
23	1.25	1.200	0.150	0.23	M3
24	3.20	0.250	0.150	0.48	M3
25	1.20	0.450	0.100	0.11	M3
26	3.00	0.600	0.100	0.18	M3
27	0.60	0.250	1.000	0.45	M3
28				30.20	M3
29	0.40	0.400	3.000	1.92	M3
30	5.60	0.250	0.450	2.52	M3
31	4.00	4.000	0.150	2.40	M3
32	14.10	1.200	0.150	2.54	M3
33	1.20	1.200	0.150	0.43	M3
34	1.20	0.150	0.250	0.41	M3
35	1.70	1.200	0.150	0.31	M3
36	1.50	1.200	0.150	0.27	M3
37	1.25	1.200	0.150	0.23	M3

Divisional Forest Officer
Baikunthapur Division

Countersigned

CCF / NO. 3

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Lintle	4	3.20	0.125	0.150	0.24	M3
Chajja	2	1.20	0.450	0.100	0.11	M3
					<u>11.36</u>	M3
2nd Floor						
Column	4	0.40	0.400	3.000	1.92	M3
Roof Beam	4	5.60	0.250	0.450	2.52	M3
Roof	1	4.00	4.000	0.150	2.40	M3
Balcony	1	14.10	1.200	0.150	2.54	M3
Landing	2	1.20	1.200	0.150	0.43	M3
Stair	9	1.20	0.150	0.250	0.41	M3
Waist Slab	1	1.70	1.200	0.150	0.31	M3
	1	1.50	1.200	0.150	0.27	M3
	1	1.25	1.200	0.150	0.23	M3
Lintle	4	3.20	0.125	0.150	0.24	M3
Chajja	2	1.20	0.450	0.100	0.11	M3
					<u>11.36</u>	M3
3rd Floor						
Column	4	0.40	0.400	2.500	1.60	M3
					<u>1.60</u>	M3

7 Shuttring

Ground Floor

(f) 25 mm to 30 mm shuttering without staging in foundation

Foundation PCC	1	24.00		0.150	3.60	M2
Foundation						
Bed	1	23.20		0.40	9.28	M2
Padestal	4	2.40		1.20	11.52	M2
Tie Beam	8	3.20		0.400	10.24	M2
					<u>34.64</u>	M2

Top of GL

Column up to Plinth Beam	4	1.60		0.350	2.24	M2
Plinth Wall	8	3.20		0.350	6.96	M2
Plinth Beam	8	3.20		0.400	10.24	M2
Column	4	1.60		3.000	19.20	M2
Roof Beam	8	5.60		0.300	13.44	M2
Roof	1	4.00		4.000	16.00	M2
Balcony	1	14.10		1.350	19.04	M2
Landing	2	1.20		1.350	3.24	M2
Stair	20	1.20		0.150	3.60	M2
Waist Slab	1	1.70		1.200	2.04	M2
	1	1.50		1.200	1.80	M2
	1	1.25		1.200	1.50	M2
	1	4.45		0.300	1.34	M2
Lintle	8	3.20		0.150	3.84	M2
Chajja	2	1.40		0.550	1.54	M2
Self	1	3.20		0.700	2.24	M2
	6	0.60		1.000	3.60	M2
					<u>113.85</u>	M2

1st Floor

Column	4	1.60		3.000	19.20	M2
Roof Beam	8	5.60		0.300	13.44	M2
Roof	1	4.00		4.000	16.00	M2
Balcony	1	14.10		1.350	19.04	M2
Landing	2	1.20		1.350	3.24	M2
Stair	20	1.20		0.150	3.60	M2
Waist Slab	1	1.70		1.200	2.04	M2


Divisional Forest Officer
Bailkumbhapur Division

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DIVISIONAL FOREST OFFICER
 BALKANTHAPUR DIVISION
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	1	1.50		1.200	1.50	M2
	1	1.25		0.300	1.34	M2
	1	4.45		0.125	3.20	M2
	8	3.20		0.700	1.96	M2
Lintle	2	1.40			86.35	M2
Chajja						
2nd Floor				3.000	19.20	M2
Column	4	1.60		0.300	13.44	M2
Roof Beam	8	5.60		4.000	16.00	M2
Roof	1	4.00		1.350	19.04	M2
Balcony	1	14.10		1.350	3.24	M2
Landing	2	1.20		0.150	3.60	M2
Stair	20	1.20		1.200	2.04	M2
Waist Slab	1	1.70		1.200	1.80	M2
	1	1.50		1.200	1.50	M2
	1	1.25		0.300	1.34	M2
	1	4.45		0.125	3.20	M2
	8	3.20		0.700	1.96	M2
Lintle	2	1.40			86.35	M2
Chajja						
3rd Floor				2.500	16.00	M2
Column	4	1.60			16.00	M2
8 Reinforcement						
Ground Floor	1.40%	30.20	0.42	3319.20	3.32	MT
1st Floor	1.25%	11.36	0.14	1115.09	1.12	MT
2nd Floor	1.25%	11.36	0.14	1115.09	1.12	MT
3rd Floor	1.25%	1.60	0.02	157.00	0.18	MT
9 250 mm Thick Brick Work						
Ground Floor Outer Wall	1	12.80	0.25	2.55	8.16	M3
Less Door 1	1	1.20	0.25	2.10	-0.63	M3
Less Window	2	1.20	0.25	1.20	-0.72	M3
Less Lintle	1	12.80	0.25	0.15	-0.48	M3
					6.33	M3
10 125 mm Thick Brick Work						
Ground Floor inner Wall	1	3.75		2.85	10.69	M2
Less Door 2	1	0.75		2.10	-1.58	M2
Less Lintle	1	3.75		0.15	-0.56	M2
					8.55	M2
1st Floor	1	12.80		2.55	32.64	M2
Less Door 1	1	1.20		2.10	-2.52	M2
Less Lintle	1	12.80		0.15	-1.92	M2
Less Window	2	1.20		1.20	-2.88	M2
					25.32	M2
2nd Floor	1	12.80		2.55	32.64	M2
Less Door 1	1	1.20		2.10	-2.52	M2
Less Lintle	1	12.80		0.15	-1.92	M2
Less Window	2	1.20		1.20	-2.88	M2
					25.32	M2
11 Plaster						
Ground Floor						
Out side	1	16.00		0.75	12.00	M2
Plinth Wall	1	16.00		2.85	45.60	M2
Wall						

Divisional Forest Officer
 Balkanthapur Division

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Projection
Less Door
Less Window
Stair
Waist Slab

1 14.10
1 1.20
2 1.20

1 1.70
1 1.50
1 1.25
1 4.45
2 1.20

1.35 19.04 M2
2.10 -2.52 M2
1.20 -2.88 M2

1.200 2.04 M2
1.200 1.80 M2
1.200 1.50 M2
0.300 1.34 M2
1.35 3.24 M2

81.15 M2

Landing

Inner Side
Kitchen wall
Less Door 1
Less Door 2
Less Window
Toilet
Less Door 2
Slab

1 11.75
1 1.20
1 0.75
2 1.20
1 10.50
1 0.75
1 3.75

2.85 33.49 M2
2.10 -2.52 M2
2.10 -1.58 M2
1.20 -2.88 M2
2.85 29.93 M2
2.10 -1.58 M2
3.75 14.06 M2

68.93 M2

1st Floor

Out side
Wall
Projection
Less Door
Less Window
Stair
Waist Slab

1 16.00
1 14.10
1 1.20
2 1.20

1 1.70
1 1.50
1 1.25
1 4.45
2 1.20

2.85 45.60 M2
1.35 19.04 M2
2.10 -2.52 M2
1.20 -2.88 M2

1.200 2.04 M2
1.200 1.80 M2
1.200 1.50 M2
0.300 1.34 M2
1.35 3.24 M2

69.15 M2

Landing

Inner Side
wall
Less Door 1
Less Window
Slab

1 15.00
1 1.20
2 1.20
1 3.75

2.85 42.75 M2
2.10 -2.52 M2
1.20 -2.88 M2
3.75 14.06 M2

51.41 M2

2nd Floor

Out side
Wall
Projection
Less Door
Less Window
Stair
Waist Slab

1 16.00
1 14.10
1 1.20
2 1.20

1 1.70
1 1.50
1 1.25
1 4.45
2 1.20

2.85 45.60 M2
1.35 19.04 M2
2.10 -2.52 M2
1.20 -2.88 M2

1.200 2.04 M2
1.200 1.80 M2
1.200 1.50 M2
0.300 1.34 M2
1.35 3.24 M2

69.15 M2

Landing

Inner Side
wall
Less Door 1

1 15.00
1 1.20

2.85 42.75 M2
2.10 -2.52 M2

Divisional Forest Officer
Baikunthapur Division

Countersigned

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Less Window	2	1.20	1.20	-2.88	M2
Slab	1	3.75	3.75	14.06	M2
Column	4	1.60	2.50	16.00	M2
				<u>87.41</u>	M2
12 Net Cement Punning Plinth Wall	1	16.00	0.75	12.00	M2
13 Primer					
Outer					
Ground Floor		Plaster Area		81.15	M2
1st Floor		Plaster Area		69.15	M2
2nd Floor		Plaster Area		69.15	M2
Inner					
Ground Floor		Plaster Area		68.93	M2
1st Floor		Plaster Area		51.41	M2
2nd Floor		Plaster Area		67.41	M2
14 Putty					
Ground Floor		Plaster Area Inner & Outer		150.08	M2
1st Floor		Plaster Area Inner & Outer		120.56	M2
2nd Floor		Plaster Area Inner & Outer		136.56	M2
15 Paint					
Outer					
Ground Floor		Plaster Area		81.15	M2
1st Floor		Plaster Area		69.15	M2
2nd Floor		Plaster Area		69.15	M2
Inner					
Ground Floor		Plaster Area		68.93	M2
1st Floor		Plaster Area		51.41	M2
2nd Floor		Plaster Area		67.41	M2
16 Ceramic tiles					
Toilet Wall	1	10.50	2.10	22.05	M2
Less Door	1	0.75	2.10	-1.58	M2
				<u>20.48</u>	M2
17 Kota stone					
Ground Floor					
Stair					
Trade	18	1.20	0.25	5.40	M2
Riser	20	1.20	0.15	3.60	M2
Landing	2	1.20	1.20	2.88	M2
Side	1	6.85	0.15	1.03	M2
	9	0.15	0.25	0.34	M2
				<u>13.25</u>	M2
1st Floor					
Stair					
Trade	18	1.20	0.25	5.40	M2
Riser	20	1.20	0.15	3.60	M2
Landing	2	1.20	1.20	2.88	M2
Side	1	6.85	0.15	1.03	M2
	9	0.15	0.25	0.34	M2
				<u>13.25</u>	M2
2nd Floor					
Stair					

[Signature]
Divisional Forest Officer
Baikunthapur Divistod

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Trade
Stair
Landing
side

18 1.25
20 1.25
2 1.25
1 6.85
9 6.15

0.15
1.20
0.15
0.25
3.55
2.88
1.03
0.34
13.25
M2
M2
M2
M2

18 Vitrified tiles
Ground Floor
Kitchen

1 3.75
1 11.75
1 3.75

2.13
0.15
1.50
7.97
1.76
5.83
7.39
M2
M2
M2
M2

Total

1st Floor
Room

1 3.75
1 15.00
1 14.10
1 14.10

3.75
0.15
1.20
0.15
14.06
2.25
16.92
2.12
35.35
M2
M2
M2
M2
M2

Balcony

2nd Floor
Room

1 3.75
1 15.00
1 14.10
1 14.10

3.75
0.15
1.20
0.15
14.06
2.25
16.92
2.12
35.35
M2
M2
M2
M2
M2

Balcony

16 Stainless Steel railing
Ground Floor

1 7.90
1 7.90
1 10.00

7.90 M

Stair
1st Floor
Stair
Balcony

7.90 M
10.00 M
17.90 M

2nd Floor
Stair
Balcony

1 7.90
1 10.00

7.90 M
10.00 M
17.90 M

3rd Floor
Balcony

1 8.00

8.00 M

20 FRP Door Frame
Ground Floor

1 4.95

4.95 M

21 FRP Door Shutter
Ground Floor

1 2.10

0.75 1.58 M2

22 Wood Work
Ground Floor
Door 1 Frame
Window 1

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$
2 $(2 \times (1.2 + 1.2)) \times (0.1 \times 0.075)$

0.05
0.09
0.14 M3

1st Floor
Door 1 Frame
Window 1

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$
2 $(2 \times (1.2 + 1.2)) \times (0.1 \times 0.075)$

0.05
0.09
0.14 M3

2nd Floor
Door 1 Frame

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$

0.05

Divisional Forest Officer
Balkunthapur Division

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Counters: J. K.

CCF / N. M. S.



Trade
Riser
Landing
Side

18 1.20
20 1.20
2 1.20
1 6.85
9 0.15

0.15 3.00 M2
1.20 2.88 M2
0.15 1.03 M2
0.25 0.34 M2
13.25

18 Vitrified tiles
Ground Floor
Kitchen

1 3.75
1 11.75
1 3.75

2.13 7.97 M2
0.15 1.76 M2
1.50 5.63 M2
7.39

Toilet

1st Floor
Room

1 3.75
1 15.00
1 14.10
1 14.10

3.75 14.06 M2
0.15 2.25 M2
1.20 16.92 M2
0.15 2.12 M2
35.35

Balcony

2nd Floor
Room

1 3.75
1 15.00
1 14.10
1 14.10

3.75 14.06 M2
0.15 2.25 M2
1.20 16.92 M2
0.15 2.12 M2
35.35

Balcony

19 Stainless Steel railing
Ground Floor

1 7.90

7.90 M

Stair
1st Floor
Stair
Balcony

1 7.90
1 10.00

7.90 M
10.00 M
17.90

2nd Floor
Stair
Balcony

1 7.90
1 10.00

7.90 M
10.00 M
17.90

3rd Floor
Balcony

1 8.00

8.00 M

20 FRP Door Frame
Ground Floor
21 FRP Door Shutter
Ground Floor

1 4.95
1 2.10

4.95 M
1.58 M2
0.75

22 Wood Work
Ground Floor
Door 1 Frame
Window 1

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$
2 $(2 \times (1.2 + 1.2)) \times (0.1 \times 0.075)$

0.05
0.09
0.14 M3

1st Floor
Door 1 Frame
Window 1

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$
2 $(2 \times (1.2 + 1.2)) \times (0.1 \times 0.075)$

0.05
0.09
0.14 M3

2nd Floor
Door 1 Frame

1 $(2 \times (2.1 + 1.2)) \times (0.1 \times 0.075)$

0.05

Divisional Forest Office
Baikunthapur Division

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23 Panel Shutter

Ground Floor

Door 1

Window 1

1 1.1
2 1.152.05
1.152.25
2.85
4.90 M2

1st Floor

Door 1

Window 1

1 1.1
2 1.152.05
1.152.25
2.85
4.90 M2

2nd Floor

Door 1

Window 1

1 1.1
2 1.152.05
1.152.25
2.85
4.90 M2

24

M.S. Clamp(b) 40 mm X 6 mm, 200 mm
length For Door , Window & Ventilator

Door

Window

3
62
46
24
30 Nos.Iron Budd hinge(vi) 100 mm X 50 mm X
1.25 mm

25

Door

Window

3
66
613
36
54 Nos.
Nos.

26 Iron Hasp bolt (c) 300 mm long Ground Floor

27 Iron skeleton bolt 375 mm long

Door

Window

3
62
26
12
18 Nos.
No.28 Iron socket bolt (c) 150 mm long X 10
mm dia bolt

Iron Catch hook (b) 6 mm dia X 225 mm

29 long

Aluminium D-type handel (II) 100 mm

30 grip X 10 mm dia Road Ground Floor
Window

6

2

12 Nos.

31 Ornamental grill
Ground Floor

2 1.2

16 1.2
Kg/M22.88 M2
46.08 Kg.
0.46 Qntl.

1st Floor

2 1.2

16 1.2
Kg/M22.88 M2
46.08 Kg.
0.46 Qntl.

2nd Floor

2 1.2

16 1.2
Kg/M22.88 M2
46.08 Kg.

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Divisional Forest Officer
Balkunthapur Division

32 Rain Water Pipe (110 dia PVC)
 110 mm dia PVC fittings
 Bend
 Door T
 33 Fan Hook
 34 Priming one coat on steel
 35 Priming one coat on timber
 36 synthetic enamel paint on Steel
 37 synthetic enamel paint on Timber

4 11.5

0.46 Qntl.
 46 m

10 Nos.
 10 Nos.
 10.00 Nos.
 50.00 M2
 60.00 M2
 50.00 M2
 60.00 M2

38 M.S Main Structure

39 Sheet

40 Iron sheet ridging

41 Digging earth

42 R.C.C. well ring

0.6 4.00
 4 3.90

7.00

L.S 1.50

1.6 MT

21.00 M2
 15.60 M
 18.00 M
 18.00 M

43 Sign Board

1.00 Nos.


 Divisional Forest Officer
 Balakanthapur Division


 Executive Engineer
 Siliguri Jalpaiguri Development Authority
 Jalpaiguri

Countersigned


 CCF / NC / WB

under mouza Purba Totgaon in Targhera Range, Baikunthapur Division against diversion of 338.7 ha forest land for Burjhora Coal Mines in Birbhum Division.

1st YEAR MAINT. WORKS		Wage rate - 294		Amount
Sl. No.	Particulars	Qty/MD	Rate	
TENDING WORKS				
1	Infilling by taller seedlings	12		
2	1st time weeding cleaning with fertilizer	15		
3	2nd time weeding cleaning with fertilizer	8		
4	3rd time weeding cleaning with fertilizer	15		
5	Fire protection	10		
6	Fire line maintenance	11		
7	Repair of fencing	8		
8	Watch & Ward	9		
9	Irrigation facility	10		
		98	294.00	28812.00
10	Supply of insecticides, fertilizer & pesticides etc	LS	5000	5000.00
Total Amount				33812.00
So the total amount for 169.43 ha				5728767.16
2nd YEAR MAINT. WORKS		Wage rate - 324		Amount
Sl. No.	Particulars	Qty/MD	Rate	
TENDING WORKS				
1	Infilling by taller seedlings	11		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	8		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	10		
6	Fire line maintenance	12		
7	Repair of fencing	8		
8	Watch & Ward	9		
9	Irrigation facility	10		
		88	324.00	28512.00
10	Supply of insecticides, fertilizer & pesticides etc	LS	5000	5000.00
Total Amount				33512.00
So the total amount for 169.43 ha				5677938.16
3rd YEAR MAINT. WORKS		Wage rate - 357		Amount
Sl. No.	Particulars	Qty/MD	Rate	
TENDING WORKS				
1	Infilling by taller seedlings	11		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	8		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	10		
6	Fire line maintenance	8		
7	Repair of fencing	8		
8	Watch & Ward	9		
9	Irrigation facility	10		
		84	357.00	29988.00
10	Supply of insecticides, fertilizer & pesticides etc	LS	5000	5000.00
Total Amount				34988.00
So the total amount for 169.43 ha				5928016.84

Divisional Forest Officer
Baikunthapur Division

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TENDING WORKS			
1	Infilling by taller seedlings	5	
2	1st time weeding cleaning with fertilizer	10	
3	2nd time weeding cleaning with fertilizer	8	
4	3rd time weeding cleaning with fertilizer	10	
5	Fire protection	6	
6	Fire line maintenance	8	
7	Repair of fencing	8	
8	Watch & Ward	9	
9	Irrigation facility	10	
		74	393.00
		LS	5000
	Supply of insecticides, fertilizer & pesticides etc		29082.00
			50000.00
			79082.00
			Total Amount
			13398863.26
			So the total amount for 169.43 ha
5th YEAR MAINT. WORKS			
		Wage rate - 432	
Sl. No.	Particulars	Qty/MID	Rate
TENDING WORKS			
1	Infilling by taller seedlings	4	
2	1st time weeding cleaning with fertilizer	8	
3	2nd time weeding cleaning with fertilizer	8	
4	3rd time weeding cleaning with fertilizer	8	
5	Fire protection	6	
6	Fire line maintenance	8	
7	Repair of fencing	8	
8	Watch & Ward	8	
9	Irrigation facility	8	
		66	432.00
		LS	5000
	Supply of insecticides, fertilizer & pesticides etc		28512.00
			5000.00
			33512.00
			Total Amount
			5677938.16
			So the total amount for 169.43 ha


 Divisional Forest Officer
 Baikunthapur Division

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1	Infilling by taller seedlings	10		
2	1st time weeding cleaning with fertilizer	4		
3	2nd time weeding cleaning with fertilizer	10		
4	3rd time weeding cleaning with fertilizer	5		
5	Fire protection	6		
6	Fire line maintenance	8		
7	Repair of fencing	8		
8	Watch & Ward	63	475.00	29925.00
9	Irrigation facility	LS	5000	5000.00
				34925.00
10	Supply of insecticides, fertilizer & pesticides etc		Total Amount	5917342.75
			So the cost for 169.43 ha	

7th YEAR MAINT. WORKS		Wage rate - 523		Amount
Sl. No.	Particulars	Qty/MD	Rate	
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	6		
7	Repair of fencing	6		
8	Watch & Ward	8		
9	Irrigation facility	8		
		60	523.00	31380.00
		LS	5000	5000.00
			Total Amount	36380.00
10	Supply of insecticides, fertilizer & pesticides etc			6163863.4
So the cost for 169.43 ha				
		Wage rate - 575		

8th YEAR MAINT. WORKS		Wage rate - 575		
Sl. No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	6		
7	Repair of fencing	6		
8	Watch & Ward	8		
9	Irrigation facility	8		
		60	575.00	34500.00
		LS	5000	5000.00
			Total Amount	39500.00
10	Supply of insecticides, fertilizer & pesticides etc			6692485.00
So the total amount for 169.43 ha				

Divisional Forest Officer
Baikunthapur Division

Countersigned

CCF / NO. 10

Scanned with OKEN Scanner

Sl. No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	7		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	5		
6	Fire line maintenance	6		
7	Repair of fencing	8		
8	Watch & Ward	8		
9	Irrigation facility	60	633.00	37980.00
		LS	5000	5000.00
10	Supply of insecticides, fertilizer & pesticides etc		Total Amount	42980.00
So the total amount for 169.43 ha				7282101.40

DIVISIONAL FOREST OFFICER
 BAIKUNTHAPUR DIVISION
 17/11/2016

10th YEAR MAINT. WORKS		Wage rate - 696		
Sl. No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	6		
7	Repair of fencing	6		
8	Watch & Ward	8		
9	Irrigation facility	8		
		60	696.00	41760.00
		LS	5000	5000.00
10	Supply of insecticides, fertilizer & pesticides etc		Total Amount	46760.00
So the total amount for 169.43 ha				7922546.8

ABSTRACT		Amount
Sl. No.	Particulars	Amount
	Total Amount of 1st year maintenance	5728767.16
1	Total Amount of 2nd year maintenance	5677938.16
2	Total Amount of 3rd year maintenance	5928016.84
3	Total Amount of 4th year maintenance	13398863.26
4	Total Amount of 5th year maintenance	5677938.16
5	Total Amount of 6th year maintenance	5917342.75
6	Total Amount of 7th year maintenance	6163863.40
7	Total Amount of 8th year maintenance	6692485.00
8	Total Amount of 9th year maintenance	7282101.40
9	Total Amount of 10th year maintenance	7922546.80
GRAND TOTAL 169.43		7,03,89,862.93


 Divisional Forest Officer
 Baikunthapur Division

Counter

 CCF / ...



Government of West Bengal
Directorate of Forests
Office of the Divisional Forest Officer
Medinipur Division
M. M. Nagar, Midnapore, Paschim Medinipur – 721101
Ph. No. & Fax No. 03222-275869, Mail – dfomid-wb@nic.in



Memo No.....2274/8 - Dated Paschim Medinipur, the dt. 24/07/2023 .

From :: The Divisional Forest Officer
Medinipur Division

To :: The Divisional Forest Officer
Bankura(North) Division

Sub :: Plantation estimate for Compensatory Afforestation amounting Rs 1,34,66,819.00 in connection with proposal of diversion of 338.74 acre of Forest Land for Barjora (North) Coal Mine of WBPDC.

Ref :: Memo No-1455 / 15 Dated , Bankura, the dt. 08/ 06 / 2023

With reference to the above mentioned subject mentioned , Kindly find enclosed herewith the details of plantation estimate for Compensatory Afforestation on the above mentioned subject against 15.17ha of alternate Compensatory Afforestation land in Medinipur Division amounting **Rs. 1,34,66,819.00(Rupees One crore thity four lakhs sixty six thousand eight hundred nineteen only)** You are requested to take necessary steps for payment of above mentioned amount as details below in compliance to stage –I clearance

1. Estimate of Boundary demarcation, felling logging etc over for the land proposed for diversion over 15.17 ha.- **Rs.22,18,924.00**
2. Estimate for advance nursery work over 15.17 ha- **Rs.1,91,142.00**
3. Estimate of Compensatory Afforestation of the land in lieu of the diversion over 15.17 ha- **Rs. 78,73,002.00**
4. Estimate for digging Elephant Proof trench around CA are over 15.17 ha.- **Rs.-12,15,500.00**

Total-Rs.-Rs.1,14,98,568.00

Addition 25% for S.M.C work i.e Rs. 19,68,251.00

Grand Total Rs. 1,34,66,819.00(Rupees One crore thity four lakhs sixty six thousand eight hundred nineteen only)

This is for your kind information and taking further necessary action.

Enclode: As stated above


Divisional Forest Officer
Medinipur Division

Memo No..... / 8 Dated Paschim Medinipur, the dt. / / 2023

Copy forwarded for information and necessary action to:

1. The Chief Conservator of Forests, Western Circle

Divisional Forest Officer
Medinipur Division

Detailed Estimate of CA (Advance)works in Non-Forest Land for the F.Y-2023-24
Unit-Ha.,Spacing-2mtx2mt, No of Seedling-2750(including 10% extra) at Kotalkuli ouza, under Godapiasal R:

Sl.	Item of Works	Unit	Type	Quantity	Rate (In Rs.)	Amount(Rs.)
1	Cleaning of Nursery site, preparation of soil/preparation of bed /mother bed site with bamboo & others	Ha.	Labour	2	294.00	588.00
2	Preparation of potting mixture over (mixing through hand driven mixture machine)	Ha.	Labour	2	294.00	588.00
3	Filling of polypots	Ha.	Labour	5.00	294.00	1470.00
4	cost of making mother bed/hygropit	Ha.	Labour	2	294.00	588.00
5	Drying,sorting, and pretreatment of seed,Sowing seeds in Hygropit /mother bed.	Ha.	Labour	2	294.00	588.00
6	Pricking out and transplanting of seedlings in root trainers.	Ha.	Labour	3	294.00	882.00
7	Watering hygropits and spraying insecticides and wtch and ward	Ha.	Labour	8	294.00	2352.00
8	Sorting & Shifting of seedlingWeeding and cleaning s	Ha.	Labour	5	294.00	1470.00
	Materials					
9	cost of cow dung manure (purchase, carriage, loading, unloading, drying & seiving all include)	m3	material	0.25	1500.00	375.00
10	Cost of coarse sand(purchase, carriage, loading, unloading, drying & seiving all include)	m3	material	0.25	800.00	200.00
11	Cost of goodearth (purchase, carriage, loading, unloading, drying & seiving all include)	m3	material	1.25	300.00	375.00
12	Collection of quality seed including collection and carriage	kg.	material	1.15	300.00	345.00
13	supply oinsecticides, fughtisides micronutrients, disinfectans etc.	Ls	material	1.15	100.00	115.00
14	Supply of seiving net and water bpipe can	Ls	material	1.15	100.00	115.00
12	Cost of ploypot shed materials implements etc	Ha.	material	Ls	216.00	216.00
A	Total					10267.00
B	GST(18%)					1848.06
C	A+B					12115.06
D	Add Cess on (1%) on C					121.1506
E	Add Contingency on (3%) on C					363.4518
F	Grand Total					12599.6624
G	or say					12600.00

Total Cost for 1.0 ha= Rs. 12,600.00 (Rupees Twelve thousand six hundred only)

Total cost for 15.17 ha. = Rs. 1,91,142.00.00(Rupees One lakh ninety one thousand one hundred fourty two onl


Divisional Forest Officer
Medinipur Division

Estimate for Advance works of Compensatory Afforestation

**At Mouza -Kotalkuli JL.No.-326 ; P.S-Salbani ;Block- Salbani ; Plot No.- 3,6,7,8,9,10 &11 (L.R.)
Area - 37.32Acre (15.17 Ha.)**

Estimate for Creation works of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	Survey demarcation with GPS	1		
2	Cleaning, burning and removal of debris and making Inspection path	25		
3	Alignment staking of planting pit	8		
4	Digging planting pit of size 90 + 60/2 X 60 X 60, Spcing 2.50 m X 2.50 m (stony area)	30		
5	Alignment and cutting of contour trench of size 0.45 m X 0.45 m X 5 m, total 500 m/ha. throughout the plantation area along the contour line at a regular interval in a staggerd manner	20		
6	Sorting, shifting, weeding, cleaning, and watering of seedlings in nursery (from April-July)	4		
7	Filling up planting pits including application of farm yard manure etc.	20		
8	Hoeing surrounding the boundary line including sowing of Akashmoni & Babla Seed	2		
9	Transplanting of seedlings including carriage upto pit	20		
10	Application of insecticides to the planted seedlings	4		
11	Vacancy in filling with seedlings	8		
12	Cost of application of organic manure and neem cake	6		
13	1st time weeding cleaning & mulching with fertilizer	25		
14	2nd time weeding cleaning & mulching	20		
15	3rd time weeding cleaning & mulching	15		
16	Making fire line 1.50 mtr wide all along the periphery and 1.20 mtr instde plantationprotection	4		
17	Watch and Ward	18		
18	Watering in dry spell	20		
19	Making inspection path	2		
	Total	252	294.00	74,088.00
Material				
21	Cost of fertilizer(NPK- 10:26:26) 50 gm per seedlings and insecticides including carriage(50gm/pit)=1.25 quint.	1.25	2,875.00	3,593.75
22	Insecticides/Hormone (1 lit/Hac)	1	690.00	690.00
23	Organic manure 4m3/ha	4	4,600.00	4,600.00
24	Neem cake (50gm/pit)=1.0 quint	1.25	5,500.00	6,875.00
22	Carriage of Seedlings upto plantation site etc. (up tom5kmt to 10km over 1000 nos of seedlings)	2500	3283	8,207.50
A	Total			23,966.25
B	Total cost per Ha.			98,054.25
C	Add GST(18% on B)			17,649.77
D	B+C			1,15,704.02
E	Add Cess(1% on D)			1,157.04
F	Total(D+E)			1,16,861.06

G	Add Contingency (3% on B)			2,941.63
H	Total(F+G)			1,19,802.68
I	Escalation cost (10%on H)			11,980.27
	G.Total cost per Ha.			1,31,782.95
	Or Say			1,31,783.00


 Divisional Forest Officer
 Medinipur Division

Estimate for 1st Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	Vacancy infilling with natural seedling	5		
2	1st mulching, weeding, cleaning and application of fertilizer 50 gm/pit	14		
3	2nd mulching, weeding, cleaning	12		
4	3rd mulching, weeding, cleaning	10		
5	Repair of Fencing	2		
6	Maintenance of firelines 3.0 m wide	5		
7	Watch and Ward	10		
8	Application of insecticides and fertilizer	2		
	Total	60	294.00	17,640.00
Material				
9	Supply of Misc. tall seedlings including carriage 10%	200	125.00	25,000.00
10	Cost of fertilizer(NPK- 10:26:26) 50 gm per seedlings and insecticides including carriage(50gm/pit)=1.250 quint.	1.25	2,875.00	3,593.75
11	Insecticides/Hormone (1 lit/Hac)	1	690.00	690.00
13	Fencing Materials (Barbed Wire & Post)			5,000.00
A	Total			34,283.75
B	Total cost per Ha.			51,923.75
C	Add GST(18% on B)			9,346.28
D	B+C			61,270.03
E	Add Cess(1% on D)			612.70
F	Total(D+E)			61,882.73
G	Add Contingency (3% on B)			1,557.71
H	Total(F+G)			63,440.44
i	Escalation cost (10%on H)			6,344.04
J	G.Total cost per Ha.			69,784.48
K	Or Say			69,784.00


 Divisional Forest Officer
 Medinipur Division

Estimate for 2nd Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	vacancy infilling with natural seeding	5		
2	1st mulching, weeding, cleaning and application of fertilizer 50 gm/pit	14		
3	2nd mulching, weeding, cleaning	12		
4	3rd mulching, weeding, cleaning	10		
5	Repair of Fencing	2		
6	Maintenance of firelines 3.0 m wide	5		
7	Watch and Ward	10		
	Total	58	294.00	17,052.00
Material				
8	Supply of Misc. tall seedlings including carriage 10%	100	125.00	12,500.00
9	Cost of fertilizer(NPK- 10:26:26) 50 gm per seedlings and insecticides including carriage(50gm/pit)=1.25 quint.	1.25	2,875.00	3,593.75
10	Insecticides/Hormone (1 lit/Hac)	1	690.00	690.00
12	Fencing Materials			5,000.00
A	Total			21,783.75
B	Total cost per Ha.			38,835.75
C	Add GST(18% on B)			6,990.44
D	B+C			45,826.19
E	Add Cess(1% on D)			458.26
F	Total(D+E)			46,284.45
G	Add Contingency (3% on B)			1,165.07
H	Total(F+G)			47,449.52
i	Escalation cost (10%on H)			4,744.95
J	G.Total cost per Ha.			52,194.47
K	Or Say			52,194.00


Divisional Forest Officer
Medinipur Division

Estimate for 3rd Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	14		
2	2nd time weeding cleaning & mulching	12		
3	Total	26	294.00	7,644.00
4	Supply of Misc. tall seedlings including carriage 10%	100	125.00	12,500.00
5	Cost of fertilizer(NPK- 10:26:26) 50 gm per seedlings and insecticides including carriage(50gm/pit)=1.25 quint.	1.25	2,875.00	3,593.75
6	Cost of fencing materials			4,500.00
A	Total			20,593.75
B	Total cost per Ha.			28,237.75
C	Add GST(18% on B)			5,082.80
D	B+C			33,320.55
E	Add Cess(1% on D)			333.21
F	Total(D+E)			33,653.75
G	Add Contingency (3% on B)			847.13
H	Total(F+G)			34,500.88
i	Escalation cost (10%on H)			3,450.09
J	G.Total cost per Ha.			37,950.97
K	Or Say			37951.00


Divisional Forest Officer
Medinipur Division

Estimate for 4th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	14		
2	2nd time weeding cleaning & mulching	12		
A	Total	26	294.00	7,644.00
B	Add GST(18% on)			1,375.92
C	A+B			9,019.92
D	Add Cess(1% on C)			90.20
E	Total(C+D)			9,110.12
F	Add Contingency (3% on A)			229.32
G	Total(E+F)			9,339.44
H	Escalation cost (10%on G)			933.94
I	G.Total cost per Ha.			10,273.38
J	Or Say			10273.00


Divisional Forest Officer
Medinipur Division

Estimate for 5th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
A	Total	22	294.00	6,468.00
B	Add GST(18% on)			1,164.24
C	A+B			7,632.24
D	Add Cess(1% on C)			76.32
E	Total(C+D)			7,708.56
F	Add Contingency (3% on A)			194.04
G	Total(E+F)			7,902.60
H	Escalation cost (10%on G)			790.26
I	G.Total cost per Ha.			8,692.86
J	Or Say			8693.00


Divisional Forest Officer
Medinipur Division

Estimate for 6 th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
A	Total	22	294.00	6,468.00
B	Add GST(18% on)			1,164.24
C	A+B			7,632.24
D	Add Cess(1% on C)			76.32
E	Total(C+D)			7,708.56
F	Add Contingency (3% on A)			194.04
G	Total(E+F)			7,902.60
H	Escalation cost (10%on G)			790.26
I	G.Total cost per Ha.			8,692.86
J	Or Say			8693.00


Divisional Forest Officer
Medinipur Division

Estimate for 7th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
3	Maintainence of berbed wire fencing(straighting and fixing the wire)	10		
	Total	32	294.00	9,408.00
4	Normal acrylic emultion on the pillar(170nosx0.1mx1.65m)	28.05	67.00/per sq.m	1,879.35
A				11,287.35
B	Add GST(18% on)			2,031.72
C	A+B			13,319.07
D	Add Cess(1% on C)			133.19
E	Total(C+D)			13,452.26
F	Add Contingency (3% on A)			338.62
G	Total(E+F)			13,790.88
H	Escalation cost (10%on G)			1,379.09
I	G.Total cost per Ha.			15,169.97
J	Or Say			15170.00


Divisional Forest Officer
Medinipur Division

Estimate for 8 th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
	Total	22	294.00	6,468.00
1	Surface dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed(1.2x1.8x100)	216sq.m	10.00	2,160.00
2	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixture soil but excluding laterite and sandstone) including removing, spreading stacking the soil within lead of 75 m as directed. The item includes necessary trimming of the side of the trenches, levelling, dressing and ramming the bottom, bailing out water as required complete, depth of excavation not exceeding 1500 mm(1.2x1.8x1.5x1700)	324cu.M	119.27	38,643.48
3	Depth of excavation for additional depth beyond 1500 mm upto 3000 mm	108 cu.M	192.38	20,777.04
A				68,048.52
B	Add GST(18% on)			12,248.73
C	A+B			1,48,345.77
D	Add Cess(1% on C)			1,483.46
E	Total(C+D)			1,49,829.23
F	Add Contingency (3% on A)			2,041.46
G	Total(E+F)			1,51,870.69
H	Escalation cost (10%on G)			15,187.07
I	G.Total cost per Ha.			1,67,057.76
J	Or Say			167058.00


Divisional Forest Officer
Medinipur Division

Estimate for 9 th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
A	Total	22	294.00	6,468.00
B	Add GST(18% on)			1,164.24
C	A+B			7,632.24
D	Add Cess(1% on C)			76.32
E	Total(C+D)			7,708.56
F	Add Contingency (3% on A)			194.04
G	Total(E+F)			7,902.60
H	Escalation cost (10%on G)			790.26
I	G.Total cost per Ha.			8,692.86
J	Or Say			8693.00


Divisional Forest Officer
Medinipur Division

Estimate for 10 th Year Maint. of Compensatory Afforestation

Unit 1 Ha.

Sl.No.	Particulars	Qty/MD	Rate	Amount
1	1st time weeding cleaning & mulching with fertilizer 50 gm per pit	12		
2	2nd time weeding cleaning & mulching	10		
A	Total	22	294.00	6,468.00
B	Add GST(18% on)			1,164.24
C	A+B			7,632.24
D	Add Cess(1% on C)			76.32
E	Total(C+D)			7,708.56
F	Add Contingency (3% on A)			194.04
G	Total(E+F)			7,902.60
H	Escalation cost (10%on G)			790.26
I	G.Total cost per Ha.			8,692.86
J	Or Say			8693.00


Divisional Forest Officer
Medinipur Division

ABSTRACT

Sl.No.	Particulars	Area in Ha	Rate	Amount
1	Creation works of Compensatory Afforestation	1	1,31,783.00	1,31,783.00
2	1st Year Maint. of Compensatory Afforestation	1	68,784.00	69,784.00
3	2nd Year Maint. of Compensatory Afforestation	1	52,194.00	52,194.00
4	3rd Year Maint. of Compensatory Afforestation	1	37951.00	37951.00
5	4 thYear Maint. of Compensatory Afforestation	1	10273.00	10273.00
6	5th Year Maint. of Compensatory Afforestation	1	8693.00	8693.00
7	6th Year Maint. of Compensatory Afforestation		8693.00	8693.00
8	7th Year Maint. of Compensatory Afforestation		15170.00	15170.00
9	8th Year Maint. of Compensatory Afforestation		167058.00	167058.00
10	9th Year Maint. of Compensatory Afforestation		8693.00	8693.00
11	10th Year Maint. of Compensatory Afforestation		8693.00	8693.00
	Total Cost for 1.0 Ha			5,18,985.00

Total cost for 1.0 Ha == Rs. 5,18,985.00

Total cost for 15.17 Ha == Rs.78,73,002.45 or say Rs.78,73,002.00

[Rupees Seventy eight lakhs seventy three thousand two only]


Divisional Forest Officer
Medinipur Division

**Estimate for digging of elephant proof trench around the CA area
(Cost estimate on 1.0 km) at Kotalkuli Mouza, under Godapiasal Range**

Sl. No.	Item	Unit	Rate	Amount	Total
1	Cost of doing the following works in connection digging of elephant proof trench at vulnerable location to prevent straying of wild elephant & protection of farmers crop, land protection etc. Of Medinipur Division. Cost of digging Elephant proof trnch of size 2.mt.*2.0 mt,*1000.0mt.= 5000.0m3 (Dug up soil should be stored 3.0 mt away from the trench)	m3	143.00	7,15,000.00	7,15,000.00
A	Total			7,15,000.00	7,15,000.00
B	Add 18% GST on A				1,28,700.00
C	A+B				8,43,700.00
D	Add 1% Cess on C				8,437.00
E	Add 3% contingency on C				25,311.00
F	C+D+E				8,77,448.00
G	Ad 10% escalation on F				87,744.80
H	Total				9,65,192.80
I	G.Total				965193.00

Rs.9,65,193.00x1.7 km =12,15,500.00

G.Total =12,15,500.00(Rupees Twelve Lakhs Fifteen thousand five hundred only)


Divisional Forest officer
Medinipur Division

**Estimate for Survey ,demarcation and making berbed fencing around the boundary
(including cleaning)in non-forest area**

At Mouza -Kotalkuli JL.No.-326 ; P.S-Salbani ;Block- Salbani ; Plot No.- 3,6,7,8,9,10 &11 (L.R.) Area - Acre
37.32 (15.17 Ha.)

Sl. No.	Particulars	Qty/MD	Rate	Amount
1	Survey and demarcation over 15.17 ha	15.17	2000.00	30,340.00
2	Supply & fitting-fixation of boundary pillar 10 m apart	170	5,000.00	8,50,000.00
3	Cost of Barbed Wire fencing including supply of pillar, barbed wire etc.(100 R.M X1700 MT) including escavation work	1700	32,449.00	5,54,633.00
4	Up rooting Eucalyptus old stump, bush cleaning etc			
	a) Uprooting eucalyptus old stump over 20000 numbers by using JCP machine	15.17	10200.00	1,54,734.00
	b) Special Cleaning of bush etc, by JCP machine	15.17	3000.00	45,510.00
A	Total Cost			16,35,217.00
B	Add GST(18% on A)			2,94,339.06
C	A+B			19,29,556.06
D	Add Cess(1% on C)			19,295.56
E	C+D			19,48,851.62
F	Contingency(3% on A)			49,056.51
G	Total Cost			20,17,203.69
H	Escalation cost(10% on G)			2,01,720.37
I	G.Total Cost			22,18,924.06
J	or say			22,18,924.00

Total Rs. 22,18,924.00 (Rupees Twenty two lakhs eighteen thousand nine hundred twenty four only)


Divisional Forest Officer
Medinipur Division

Abstract			
Sl.No.	Particulars	Area in Ha	Amount
1	Advance creation work	15.17	1,91,142.00
2	Estimate for Advance works, Creation works and up to five years maintenance works of Compensatory Afforestation	15.17	7873002.00
3	Estimate for digging of elephant proof trench around the CA area	15.17	1215500.00
4	Estimate for Survey ,demarcation and making berbed fencing around the boundary (including cleaning)in non-forest area	15.17	2218924.00
5	S.M.C work	15.17	1968251.00
	Total Cost for 15.17Ha		13466819.00

Total cost for 15.17 Ha == Rs.1,34,66,819.00

[Rupees One crore thirty four lakhs sixty six thousand eight hundred nineteen only]


Divisional Forest Officer
Medinipur Division



**Government of West Bengal
Directorate of Forests,
Office of the Divisional Forest Officer,
Purulia Division.**

Phone No. : 03252 - 222329 & FAX No. : 03252 - 228323

Email: dfopfd@gmail.com & dfopur-wb@nic.in

No. **1830** /8-WBPDCL

Dated, Purulia, the **23** / 06 / 2023.

From : The Divisional Forest Officer,
Purulia Division,

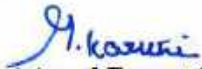
To : The Chief Conservator of Forests,
South-West Circle, West Bengal.

Sub. : Submission of CA plantation estimate for vetting in respect of diversion proposal of Barjora
(North) Coal Mine (WBPDCL) under Purulia Division.

Ref. : Your office memo no. 1584/15, dated 21/06/2023.

With reference to the subject mentioned above, the undersigned is submitting herewith the detail estimates for Advance work, Creation work & 10 years Maintenance documents for CA plantation over 12.686 ha at Mouza- Hinjuri (4.997 ha) & Singhagara (7.689 ha) under Joypur Range of Purulia Division against land diversion proposal of Barjora (North) Coal Mine (WBPDCL) in Bankura (North) Division.

This is for your kind information and taking necessary action.


Divisional Forest Officer,
Purulia Division.

No. /8-WBPDCL

Dated, Purulia, the /06 / 2023.

Copy forwarded for information to:

1. The Addl. Principal Chief Conservator of Forests, Forest Conservation of Forests, 1980.
2. The Chief Conservator of Forests, Forest Conservation Act. West Bengal.
1. The Divisional Forest Officer, Bankura(North) Division

Sd/- Karthikeyan.M
IFS
Divisional Forest Officer,
Purulia Division.

Scheme for Compensatory Afforestation under Purulia Division, over 12.68 Ha Area.

Detailed Scheme of Compensatory Afforestation over 12.68 ha. under Joypur Range, Purulia Division.

1.	Details degraded Forest Land:		
	(1) District:	Purulia	
	Name of Forest Division:	Purulia Division	
	Block/ Compartment/ Survey No./ Mouza	Range-Joypur, Mouza- Singhghagra, JL No.45, Plot No. 773, Area- 19 Acre & Mouza- Hinjori, JL No. 47, Plot No. 543, Area- 12.35 Acre.	
	Village	Singhghagra & Hinjori.	
	Area to be Afforested	12.68 ha.	
2.	Description of the Area		
	Soil Type	Lateritic	
	Topography	More or less plain	
	Whether the area bearing any rock stock	Unwanted weeds	
3.	Name of the Plantation Programme	Plantation of Miscellaneous species with 1600 nos. seedlings per ha.	
4.	Schedule of Plantation Programme	The Compensatory Afforestation on degraded forest land would be started by the Divisional Forest Officer as early as possible after the proposal is formally approved.	
5.	Details of year-wise break up of requirement of fund is as under wage rate Rs. 294.00 which may be increased as per existing labour rate.	Advance work,	Rs. 1,68,476.00
		Creation	Rs.21,24,369.00
		1 st Year Maint.	Rs.9,02,128.00
		2 nd Year Maint.	Rs.8,35,354.00
		3 rd Year Maint.	Rs.7,54,959.00
		4 th to 10 th Year Maint.	Rs.22,38,202.00
		SMC works in CA Site	Rs.17,55,872.00
		Total for 12.68 ha	Rs. 87,79,360.00
	Rupees Eighty Seven Lakh Seventy Nine Thousand Three Hundred Sixty only.		
6.	Technical details	Technical details of compensatory afforestation are as follows	
	a) General Detail:	Miscellaneous seedlings 1600/Ha	
	b) Spacing :	2.5x2.5 mt.	
	c) Species:	Jam, Arjun, Sirish, Kusum, Amlaki, Mahul, Neem Piasal, Karam, Karanj, Chalta , Sissoo, Gamar etc.	
	d) Nursery technique:	Seedlings raised in 300 cc hycopot	
	e) Size	Pit size .60x.60+.60/2x.60 m3.	
	f) Planting method:	All Miscellaneous seedlings of one year Old to be raised	
	g) SMC work:	Water absorption trench and Box trench in staggered method.	
	h) Protection:	Barbed wire fencing.	
	i) Silvicultural Operation	As per existing working plan prescription.	
	j) Maintenance:	As per existing working plan prescription.	
	k) Subsequent silvicultural operation proposed:	As per existing working plan prescription.	

Date: 23 /06/2023

Place: Purulia.


 Divisional Forest Officer,
 Purulia Division.

Abstract of Compensatory Afforestation Cost & SMC Works

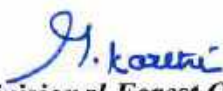
Sl. No.		Work Details	Cost
1	Compensatory Afforestation (CA Cost)	Raising seedlings or Nursery during 2023-24	168476.00
		Miscellaneous Species Plantation Creation during 2024-25	2124369.00
		1st Year Maintenance during 2025-26	902128.00
		2nd Year Maintenance during 2026-27	835354.00
		3rd Year Maintenance during 2027-28	754959.00
		4th Year Maintenance during 2028-29	547277.00
		5th Year Maintenance during 2029-30	501948.00
		6th Year Maintenance during 2030-31	344736.00
		7th Year Maintenance during 2031-32	234378.00
		8th Year Maintenance during 2032-33	219409.00
		9th Year Maintenance during 2033-34	201482.00
		10th Year Maintenance during 2034-35	188972.00
Total =			7023488.00
2	Associated SMC Works: 25% of CA amount	SMC work in CA Plantation site	1755872.00
Grand Total: CA cost			87,79,360.00


Divisional Forest Officer,
Purulia Division.

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

FY 2023-24

Sl.	Particular of Work	Unit	Type	Rate (In Rs.)
Advance Component				
1	Cost of making dry and sieved leaf Compost inclusive of all costs	m3	Material	3,000.00
2	Cost of coarse Sand (Purchase/Collection, Carriage, Loading, Unloading, drying & sieving all inclusive)	m3	Material	990.00
3	Cost of Burnt Rice Husk/CDM/Vermicompost etc. (Purchase/Collection, Carriage, Loading, Unloading, drying & sieving all inclusive)	m3	Material	1,200.00
4	Preparation of potting mixture (Mixing through hand driven Mixture Machine)	m3	Labour	588.00
5	Disinfection of Root Trainer, Filling and keeping filled Root Trainers on stands	for 2000 Seedlings	Labour	588.00
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	294.00
8	Pricking out and transplanting of seedlings in Root Trainers	for 2000 Seedlings	Labour	882.00
9	Supply of insecticides, fungicides, micronutrients, disinfectants, etc.	for 2000 Seedlings	Material	120.00
10	Supply of Sieving 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	1,176.00
12	Sorting-shifting, weeding-cleaning as and when required	for 2000 Seedlings	Labour	588.00
13	Contingency	for 2000 Seedlings		249.00
Cost of 2000 seedlings /QPM(Department Rate in Rs				10,135.00
A. Cost of 2000 seedlings/QPM(Tender Rate with 10% Contractor's profit)				11,148.50
B. GST (18% of A;				2,006.73
C.Total Cost of Work(A+B)				13,155.23
D.Labour Cess (1% of C)				131.55
Grand Total (C+D) per 2000 QPM/Seedling (Tender Rate in Rs.) per Ha				13,286.78
Grand Total for 12.68 Ha				1,68,476.00


Divisional Forest Officer,
Purulia Division.

Estimate for Creation of Miscellaneous Species Plantation (per Ha) - 2023-24						
Type of Plantation		MISCELLANEOUS SPECIES				
No. of seedlings per ha		1600				
Spacing per ha		2.5m x 2.5m				
Pit Size		60cm x 45cm. X 45cm.				
Sl No.	Particulars of Work	SoR. Ref.	Unit	Rate	Qty (mds/no)	Amount (Rs.)
1	Survey and demarcation of the plantation site including preparation of Regeneration Map and GPS Survey map	29	1 Ha	294	2	588.00
2	Clearance of undervrowth in thick forest areas : Clear felling, burning, heaping and re-burning in moderate density areas of undergrowth and bushes	27@	1 Ha	294	12	3,528.00
3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1 Ha	294	5	1,470.00
4	Pit cutting : a) Miscellaneous species -60 x 45 x 45cm	31(a)	1 Ha	294	42	12,348.00
5	Soil moisture Conservation-Digging of box trench over a length of 500 mt of size 5 m x 0.45m x 0.45m.	32	1 Ha	294	36	10,584.00
6	Digging of water absorption trench as additional SMC measure 1600 nos of size 60cm x 45cm x45 cm		1 Ha	294	60	17,640.00
7	Sorting and shifting of seedlings per each time	11(i)	1000 Nos.	569	1760 Nos.	1,001.44
8	Weeding and cleaning of seedlings in Hycopots/root trainers per each time	12(i)	1000 Nos.	569	1760 Nos.	1,001.44
9	Watering of seedlings in Hycopots two times per day	13(i)	10000 Nos.	285	1760 Nos.	50.16
10	Creation of inspection path by removing weeds, scraping and by providing proper drain alongkffe diagonal of the plantation site, of 3 mt wide	42	100 mtr	1423	50 mtr	711.50
11	Pit filling and application of Farm yard Manure : i) Miscellaneous Species	33(i)	1 Ha	4838	1 Ha	4,838.00
12	Transplanting of Hycopots seedlings into pits including man carriage from the unloading point.	36(i)	1000 Nos.	3557	1760 Nos.	6,260.32
13	Application of insecticides and other chemicals whenever necessary	41	1000 Nos.	569	1600 Nos.	910.40
14	Vacancy infilling of pits with new seedling wherever there mortality due abiotic and biotic factors	40	100 Nos.	427	160 Nos.	683.20
15	1st cleaning	38(a)	1 Ha	3984	1 Ha	3,984.00
16	1 st Mulching	39(a)	1000 Nos.	3984	1600 Nos.	6,374.40
17	2nd cleaning	38(b)	1 Ha	3415	1 Ha	3,415.00
18	2nd Mulching	39(a)	1000 Nos.	3984	1600 Nos.	6,374.40
19	3rd cleaning	38@	1 Ha	2846	1 Ha	2,846.00
20	Creation of fireline to protect plantation from Fire, by making 3mt wide fireline inside plantation and along boundary, by removing weeds and vegetation and scarpping, cutting of all existing weed growth to a width of 3 in. Heaping, burning and re-burning in younger plantations	44	100 mtr	1138	200 mtr	2,276.00
21	Providing watch and ward in the form of man days to oversee the plantation and protect the plantation from damages aia lag out of biotic factors for the entire year	45	1 Ha	3415	1 Ha	3,415.00
22	Sub Total (labour)					90,299.26
23	Material : a) Farm Yard Manure: 4m3	50 (a)(i)	1 Ha	4600	0.4 Ha	1,840.00
24	Material : c) Chemical Fertilizers-	50@	1 MT	28750	0.08 MT	2,300.00
25	Material : b) Insecticides, fungicides(1 ltr each/ha)	50(b)	1 Ha	690	1 Ha	690.00
26	Purchase of ingredients for different materials required for Forestry Operation including carriage upto 5km : k) Organic manure (50 gins/plants)	3(k)	1 MT	23000	0.08 MT	1,840.00
27	Transportation of Hycopots seedling from nursery to Plantation site including loading & unloading: d) lead distance >20km & upto 30km : 300CC Hycopots	34(d)	1000 Nos.	2118	1760 Nos.	3,727.68
28	Collection of Hycopots after plantation & transporting back to central nursery after careful packing etc. : d) lead distance >20km & upto 30km : 300CC Hycopots	43(d)	1000 Nos.	368	1760 Nos.	647.68
29	Barbed Wire fencing with 4 stand, using wooden post of 41-45 cm girth and 6' inch girth at 2.5 mt apart. Fixing the fence posts after digging pits of 30 cm x 40 cm depth and consolidation ensuring firm fixture. Unrolling and fixing barbed wire with "U" nails in four rows, ensuring proper fixture.	46(b)	1 Ha	1098	1 Ha	18,000.00
30	Digging of Cattle proof trench		1 Ha		1 Ha	5,000.00

Sl No.	Particulars of Work	SoR. Ref.	Unit	Rate	Qty (mds/no)	Amount (Rs.)
31	Cost of signage (one for each 10 Ha or part thereof)	49				200
	Sub Total (Materials)					34,245.36
A	Total (labour + materials)					1,24,544.62
B	Add GST (18% on A)					22,418.03
C	Total (A + B)					1,46,962.65
D	Add Cess (1% on C)					1,469.63
E	Add Contingency (3% on C)					4,408.88
F	Add 10% Contractor profit for tender works on C					14,696.27
G	Grand Total (C + D + E+F)					1,67,537.00
	Grand Total for 12.68 ha					21,24,369.00

Rs. Twenty lakh thirty nine thousand and eighty three only


 J. Khatun
 Divisional Forest Officer,
 Purulia Division.

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

Type of plantation		
		MISCELLANEOUS SPECIES
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	6
2	1st weeding, cleaning, mulching, with application of fertilizer	20
3	2nd weeding, cleaning, mulching	18
4	3rd weeding, cleaning	6
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	30
7	Application of insecticide and Organic Manure	8
8	Repairing of CPT, Water absorption Trench and Box Trench & fencing	35
9	Raising of seedlings for infilling	12
10	Watering to seedlings during dry spell	5
Total Mandays (Nos.).		152
X.	Cost of Labour Component @ Rs.312/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	47424.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		8536.32
Cost of labour Component for tender work with GST Ms.).		55960.32
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer/water tanker (GST: 18%)	3540.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	6230.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	55960.32
Z.	Total Cost (X + Y) =	62190.32
4	Contingency 3%	1865.71
5	Labour Cess 1%	621.90
Total =		64,678
Add 10% Contractors profit for tender work (Rs.) =		6,468
GRAND TOTAL for TENDER WORK with GST (Rs.) =		71,146
Total for 12.68 Ha. Plantation		9,02,128


 Divisional Forest Officer,
 Purulia Division.

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

Type of plantation

		MISCELLANEOUS SPECIES
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	6
2	1st weeding, cleaning, mulching, with application of fertilizer	18
3	2nd weeding, cleaning, mulching	16
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	30
7	Application of insecticide and Organic Manure	6
8	Repairing of CPT, Water absorption Trench and Box Trench & fencing	30
9	Raising of seedlings for infilling	10
10	Watering to seedlings during dry spell	5
	Total Mandays (Nos.).	133
X.	Cost of Labour Component @ Rs.331/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	44023.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).	7924.14
	Cost of labour Component for tender work with GST Ms.).	51947.14
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer /water tanker (GST: 18%)	2950.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	5640.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	51947.14
Z.	Total Cost (X + Y) =	57587.14
4	Contingency 3%	1727.61
5	Labour Cess 1%	575.87
	Total =	59,891
	Add 10% Contractors profit for tender work (Rs.) =	5,989
	GRAND TOTAL for TENDER WORK with GST (Rs.) =	65,880
	Total for 12.68 Ha. Plantation	8,35,354


Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 3RD YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)		
Type of plantation		
		MISCELLANEOUS SPECIES
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	4
2	1st weeding, cleaning, mulching, with application of fertilizer	16
3	2nd weeding, cleaning, mulching	14
4	Cutting of Firelines (3m wide)	12
5	Watch & Ward	30
6	Application of insecticide	3
7	Repairing of CPT, Water absorption Trench and Box Trench & fencing	25
8	Raising of seedlings for infilling	8
9	Watering to seedlings during dry spell	4
Total Mandays (Nos.).		116
X.	Cost of Labour Component @ Rs.351/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	40716.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		7328.88
Cost of labour Component for tender work with GST Ms.).		48044.88
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer /water tanker (GST: 18%)	2360.00
2	Cost of fertilizer (GST: 5%)	1050.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	4000.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	48044.88
Z.	Total Cost (X + Y) =	52044.88
4	Contingency 3%	1561.35
5	Labour Cess 1%	520.45
Total =		54,127
Add 10% Contractors profit for tender work (Rs.) =		5,413
GRAND TOTAL for TENDER WORK with GST (Rs.) =		59,539
Total for 12.68 Ha. Plantation		7,54,959


 J. Karati
 Divisional Forest Officer,
 Purulia Division.

SCHEDULE FOR 3RD 4 TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)		
Type of plantation		
		MISCELLANEOUS SPECIES
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 with potted seedlings	3
2	1st weeding, cleaning, mulching, with application of fertilizer	14
3	2nd weeding, cleaning	10
4	Watch & Ward	20
5	Repairing of CPT, Water absorption Trench and Box Trench & fencing	22
6	Cutting of Firelines (3m wide)	10
Total Mandays (Nos.).		79
X.	Cost of Labour Component @ Rs.372/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	29388.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).		5289.84
Cost of labour Component for tender work with GST Ms.).		34677.84
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer /water tanker (GST: 18%)	2000.00
2	Cost of fertilizer (GST: 5%)	1050.00
Y.	Total Material Cost without Labour Cess (Rs.) =	3050.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	34677.84
Z.	Total Cost (X + Y) =	37727.84
4	Contingency 3%	1131.84
5	Labour Cess 1%	377.28
Total =		39,236.95
Add 10% Contactors profit for tender work (Rs.) =		3,923.70
GRAND TOTAL for TENDER WORK with GST (Rs.) =		43,161
Total for 12.68 Ha. Plantation		5,47,277


 Divisional Forest Officer,
 Purulia Division.

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

Type of plantation		
		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	12.00
2	2nd weeding, cleaning	10.00
3	Mulching	10.00
4	Watch & Ward	20.00
5	Repairing of CPT, Water absorption Trench and Box Trench & fencing	20.00
6	Cutting of Firelines (3m wide)	10.00
Total Mandays (Nos.).		82.00
X.	Cost of Labour Component @ Rs.394/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	32,308.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		5,815.44
Cost of labour Component for tender work with GST Ms.).		38,123.44
1	Contingency 3%	1,143.70
2	Labour Cess 1%	381.23
GRAND TOTAL for TENDER WORK with GST (Rs.)=		39,648.38
Total for 12.68 Ha. Plantation		5,01,948.46
Orsay,		5,01,948.00

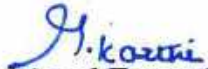

Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 6TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)		
Type of plantation		
		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	10.00
2	2nd weeding, cleaning	8.00
3	Watch & Ward	20.00
4	Repairing of CPT, Water absorption Trench and Box Trench & fencing	15.00
Total Mandays (Nos.).		53.00
X.	Cost of Labour Component @ Rs.418/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	22,154.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		3,987.72
Cost of labour Component for tender work with GST Ms.).		26,141.72
1	Contingency 3%	784.25
2	Labour Cess 1%	261.42
GRAND TOTAL for TENDER WORK with GST (Rs.)=		27,187.39
Total for 12.68 Ha. Plantation		3,44,736.09
Orsay,		3,44,736.00


 J. K. Karki
 Divisional Forest Officer,
 Purulia Division.

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

Type of plantation		
		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	8.00
2	2nd weeding, cleaning	6.00
3	Watch & Ward	20.00
Total Mandays (Nos.).		34.00
X.	Cost of Labour Component @ Rs.443/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	15,062.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2,711.16
Cost of labour Component for tender work with GST Ms.).		17,773.16
1	Contingency 3%	533.19
2	Labour Cess 1%	177.73
GRAND TOTAL for TENDER WORK with GST (Rs.)=		18,484.09
Total for 12.68 Ha. Plantation		2,34,378.22
Orsay,		2,34,378.00


 Divisional Forest Officer,
 Purulia Division.

SCHEDULE FOR 8TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)		
Type of plantation		
		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	7.00
2	2nd weeding, cleaning	5.00
3	Watch & Ward	18.00
Total Mandays (Nos.).		30.00
X.	Cost of Labour Component @ Rs.470/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	14,100.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2,538.00
Cost of labour Component for tender work with GST Ms.).		16,638.00
1	Contingency 3%	499.14
2	Labour Cess 1%	166.38
GRAND TOTAL for TENDER WORK with GST (Rs.)=		17,303.52
Total for 12.68 Ha. Plantation		2,19,408.63
Orsay,		2,19,409.00


Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 9TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

Type of plantation		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6.00
2	2nd weeding, cleaning	4.00
3	Watch & Ward	16.00
Total Mandays (Nos.).		26.00
X.	Cost of Labour Component @ Rs.498/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	12,948.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2,330.64
Cost of labour Component for tender work with GST Ms.).		15,278.64
1	Contingency 3%	458.36
2	Labour Cess 1%	152.79
GRAND TOTAL for TENDER WORK with GST (Rs.)=		15,889.79
Total for 12.68 Ha. Plantation		2,01,482.48
Orsay,		2,01,482.00


Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 10TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

Type of plantation		MISCELLANEOUS SPECIES
No of seedlings per ha		1,600.00
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	5.00
2	2nd weeding, cleaning	4.00
3	Watch & Ward	14.00
Total Mandays (Nos.).		23.00
X.	Cost of Labour Component @ Rs.528/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	12,144.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2,185.92
Cost of labour Component for tender work with GST Ms.).		14,329.92
1	Contingency 3%	429.90
2	Labour Cess 1%	143.30
GRAND TOTAL for TENDER WORK with GST (Rs.)=		14,903.12
Total for 12.68 Ha. Plantation		1,88,971.52
Orsay,		1,88,972.00


Divisional Forest Officer,
Purulia Division.



Government of West Bengal
Directorate of Forests
Office of the Divisional Forest Officer
Kangsabati North Division

Raghabpur More, P.O. & Dist. – Purulia, Pin - 723101

(Ph.)-03252-222231,(Fax)-227468 & E-Mail: dfokn-wb@nic.in / dfoknd@gmail.com

No.: 1273 /8-21

dated, Purulia, the 06 / 07 /2023.

From :: Divisional Forest Officer,
Kangsabati North Division,
Purulia.

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

Sub :: **Submission of CA land site suitability and CA Plantation estimate with respect of Barjora North Coal Mines Project by WBPDC.**
(Proposal No. FP/WB/MIN/43000/2019).

Ref :: Your Office memo No. 1455/15, dt. 08.06.2023

On the above mentioned subject & reference the undersigned is sending herewith the Site suitability report, CA Scheme details & estimate for CA Plantation under Kangsabati North Division in connection with Barjora North Coal Mines Project by WBPDC at mouza Palanja, JL No-6 & Uluberian JL No. 87.

This is for your kind information & taking necessary action.

Encl: As stated above.


Divisional Forest Officer
Kangsabati North Division
Purulia

No.: 1273 /8-21

dated, Purulia, the 06 / 07 /2023.

Copy forwarded for information to:

- 1) The Addl. Principal Chief Conservator of Forests & Nodal Officer, FCA, W.B.
- 2) The Chief Conservator of Forests, South-West Circle, West Bengal.
- 3) The Director, (Mining), WBPDC, Sector-III, Salt Lake, Kolkata.


Divisional Forest Officer
Kangsabati North Division
Purulia

Scheme for Compensatory Afforestation Under Kangsabati North Division, over 36.56 Ha (90.37 Acre) Area.

Detailed Scheme of Compensatory Afforestation over 36.56 Ha (90.37 acre) area under Kangsabati North Division to be carried out in lieu of the proposal of Diversion of forest land (338.74 ha) for Barjora (North) Coal Mine Project in favour of West Bengal Power Development Corporation of India. Project Proposal No. FP/WB/MIN/43000/2019.

1.	Details degraded Forest Land:	::																																																	
	(i) District :	::	Purulia																																																
	Name of Forest Division:	::	Kangsabati North Division																																																
	Block/ Compartment/ Survey No./ Mouza	::	<table><tr><th>Range</th><th>Beat</th><th>Mouza</th><th>Plot No</th><th>Area in Ha</th><th>Area in Acre</th></tr><tr><td>Kashipur</td><td>Gourangdi</td><td>Uhuberia-87</td><td>3</td><td>24.36</td><td>60.22</td></tr><tr><td>Kashipur</td><td>Gourangdi</td><td>Uhuberia-87</td><td>4</td><td>4.05</td><td>10</td></tr><tr><td colspan="4">Total</td><td>28.41</td><td>70.22</td></tr><tr><td>Purulia Para</td><td>Purulia-II</td><td>Palanja-06</td><td>2433</td><td>8.15</td><td>20.15</td></tr><tr><td colspan="4">Total</td><td>8.15</td><td>20.15</td></tr><tr><td colspan="4">Total Land for CA =</td><td>36.56</td><td>90.37</td></tr></table>							Range	Beat	Mouza	Plot No	Area in Ha	Area in Acre	Kashipur	Gourangdi	Uhuberia-87	3	24.36	60.22	Kashipur	Gourangdi	Uhuberia-87	4	4.05	10	Total				28.41	70.22	Purulia Para	Purulia-II	Palanja-06	2433	8.15	20.15	Total				8.15	20.15	Total Land for CA =				36.56	90.37
Range	Beat	Mouza	Plot No	Area in Ha	Area in Acre																																														
Kashipur	Gourangdi	Uhuberia-87	3	24.36	60.22																																														
Kashipur	Gourangdi	Uhuberia-87	4	4.05	10																																														
Total				28.41	70.22																																														
Purulia Para	Purulia-II	Palanja-06	2433	8.15	20.15																																														
Total				8.15	20.15																																														
Total Land for CA =				36.56	90.37																																														
	Area to be Afforested	::	36.56 Ha. (90.37 Acre)																																																
2	Description of the Area	::																																																	
	Soil Type	::	Lateritic																																																
	Topography	::	Undulated highly																																																
	Whether the area bearing any rock stock	::	Scattered																																																
3.	Name of the Plantation Programme	::	Plantation of Misc. Quick Growing Species with 1600 nos. seedlings per ha.																																																
4.	Schedule of Plantation Programme	::	The Compensatory Afforestation on degraded forest land would be started by the Divisional Forest Officer as early as possible after the proposal is formally approved.																																																
5.	Details of year-wise break up of requirement of fund is as under wage rate is as under wage rate Rs. 294.00 which may be increased as per existing labour rate.	::	Advance work,			Rs. 534353.00																																													
			Creation			Rs. 7199175.00																																													
			1 st Year Maint.			Rs. 2796131.00																																													
			2 nd Year Maint.			Rs. 2651428.00																																													
			3 rd Year Maint.			Rs. 2479688.00																																													
			4 th to 10 th Year Maint.			Rs. 5235799.00																																													
			SMC works in CA Site			Rs. 1608915.00																																													
			Earthen Dam			Rs. 631861.00																																													
			Total for 36.56 ha			Rs. 23137349.00																																													
			Rupees Two crore thirty one lakh thirty seven thousand three hundred forty nine only.																																																
6.	Technical details	::	Technical details of compensatory afforestation are as follows																																																
	a) General Detail:	::	Misc. Quick Growing seedlings 1600/Ha																																																
	b) Spacing :	::	2.5x2.5 mtr.																																																
	c) Species:	::	Indigenous Quick Growing Misc.																																																
	d) Nursery technique:	::	Seedlings raised in 300 cc hycopot																																																
	e) Site	::	Pit size .60x.60+.60/2x.60 m3.																																																
	f) Planting method:	::	All Misc. seedlings of one year Old.																																																
	g) SMC work:	::	Contour trench in staggered method.																																																
	h) Protection:	::	Barbed wire fencing.																																																
	i) Silvicultural Operation	::	As per existing working plan prescription.																																																
	j) Maintenance:	::	As per existing working plan prescription.																																																
	k) Subsequent silvicultural operation proposed:	::	As per existing working plan prescription.																																																

Date:
Place: Purulia.


 Divisional Forest Officer
 Kangsabati North Division
 Purulia



Government of West Bengal
Directorate of Forests
Office of the Divisional Forest Officer
Kangsabati North Division

Raghabpur More, P.O. & Dist. – Purulia, Pin - 723101
(Ph. No.- 03252-222231, Fax No. - 03252-227468 & E-Mail: dfoknd@gmail.com)

CERTIFICATE FOR SUITABILITY OF THE
COMPENSATORY AFFORESTATION AREA.

The selected compensatory afforestation area at Mouza-Uluberia, JL No. 87, Plot No. 3, Area- 24.36 Ha (60.22 acre), Plot No. 4, Area- 4.05 ha (10 acre) Total Area in ha- 28.41 (70.22 Acre) under Kashipur Range and Mouza-Palanja, JL No. 06, Plot No. 2433, Area 8.15 ha (20.15) Acre under Purulia Para Range Total area 36.56 ha (90.37 Acre) under Kangsabati North Division, Purulia, West Bengal is a non forest land, degraded barren, highly undulating land. Soil is lateritic acidic in nature, Mouza Uluberia is consisted with highly obnoxious weed grasses. But these patch of lands are in a single compact with single stretch plotwise. So it is suitable for proposed compensatory afforestation scheme as Misc. quick growing species.


Divisional Forest Officer,
Kangsabati North Division.
Purulia

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

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 & seviving all inclusive)	m3	Material	990.00
3	Cost of Burnt Rice Husk/CDM/Vernnicompost etc. (Purchase/Collection, Carrsige, Loading, Unloading,drying & seviving all inclusive)	m3	Material	1200.00
4	Preparation of potting mixture (Mixing through hand driven Mixture Machine)	m3	Labour	588.00
5	Disinfection of Root Trainer, Filling and keeping filled Root Trainers on stands	for 2000 Seedlings	Labour	588.00
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	294.00
8	Pricking out and transplanting of seedlings in Root Trainers	for 2000 Seedlings	Labour	882.00
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	1176.00
12	Sorting-shifting, weeding-cleaning as and when required	for 2000 Seedlings	Labour	588.00
13	Contingency	for 2000 Seedlings	Material	249.00
Cost of 2000 seedlings /QPM(Department Rate in Rs				10135.00
A. Cost of 2000 seedlings/QPM(Tender Rate with 10% Contractor's profit)				11148.50
B. GST (18% of A;				2006.73
C.Total Cost of Work(A+B)				13155.23
D.Labour Cess (1% of C)				131.55
Grand Total (C+D) per 2000 QPM/Seedling (Tender Rate in Rs.) per Ha				13286.78
Add 10% Contactors profit for tender work (Rs.) =				1329.00
Grand Total for Tender works with GST (Rs.) =				14615.78
Grand Total for 36.56 Ha				534353.00

(Rupees five lakh thirty four thousand three hundred fifty three) only


Divisional Forest Officer
Kangsabati North Division
Purulia

SCHEDULE OF MISC. QUICK GROWING SPECIES CREATION OF PLANTATION (COMPENSATORY AFFORESTATION)

Type of Plantation		Misc Quick Growing
Area of CA Land: 36.56 Ha	No. of seedling per Ha	1600
Spacing per ha		2.5m x 2.5m
Pit Size		60cm. x 45cm. x 45cm
SL.	Particulars of Work	
A.	Labour Component	No. of Mandays
1	Survey and demarcation of the plantation area including GPS Survey by technical Person.	2
2	Burning, removing debris & cleaning of the Pit site and making inspection path and Alignment of planting lines and staking the pit positions.	32
3	Digging pits (Pit Size = .060 m x .45 m x .45 m)	40
4	Alignment and cutting of contour trench of size 0.45m x 0.45m x 5 mt. total 500 m long per ha = 101.25 in 3 in staggered manner 0.5 mt away from another line for easy movement, Trench km: to next trench line distance 10 mt.	20
5	Making of Inspection Path	2
6	Cutting of Box trench of size 0.60m x 0.60m x 0.45 mt. total 1200 nos per ha	40
7	Digging Cattle proof Trench (50 mt x 1.35 mt x 1.20 mt)	40
8	Filling up of planting pits with dug up pulverized soil, Organic manure, Fungicides, Micro-Nutrients etc and planting	18
9	Half moon trench (0.60 x 0.15 cm x 0.15 cm)	30
10	Carriage of seedlings from Stacking site to planting pits	14
11	Transplanting of potted seedlings including carriage from field nursery to planting site and staking	18
12	1st time weeding cleaning & mulching with application of fertilizer & vacancy filling	18
13	2nd time weeding cleaning & mulching with application of fertilizer & vacancy filling	14
14	3rd time weeding cleaning & mulching without application of fertilizer & vacancy filling	8
15	4th time weeding cleaning & mulching without application of fertilizer & vacancy filling	6
16	Making- fire lines 1.501 . wide all ong the periphery and 1.20 mt. with inside pltn.	12
17	Watch Ward from Sep to March	60
18	Sorting, Shifting , Weeding, cleaning and watering of seedlings in nursery (April-June)	15
19	Application of insecticide / Organic manure to the planted seedlings	4
20	Vacancy filling with potted seedlings	6
21	Application organic manure as per doses prescriber per pit	5
22	Sowing of Arhar seeds as nurse crop on the ridges of dug up soil along the continuous trenches	2
23	Watering to seedlings during dry spell	6
Total Mandays (Nos.)=		412
X.	Cost of Labour Component @ Rs.294/MD for Departmental Work Rs.) =	121128
Add GST.18% (SAC Code: 998519) for Tender Work (Rs.) =		21803
Cost of Labour Component for tender work with GST (Rs.) =		142931
B.	Material Cost (Rs.)	
1	Signages (GST :18%)	590
2	Barbed wire fencing (GST : 18%)	22000
3	Chemical Fertilizer @ 50 gm DAP/Plant (GST : 5%)	2625
4	Insecticides / Hormones (GST : 18%)	590
5	Organic manure (GST : 0%)	2200
6	Carriage of Seedlings and fertilizer by Truck / vehicle etc.(GST : 18%) upto Stacking site	2950
7	Cost of Arhar seeds (GST : 0%)	1000
Y.	Total Material Cost without Labour Cess (Rs.) =	30365
X.	Cost of Labour Component for tender work with GST (Rs.) =	142931
Z.	Total Cost (X + Y) =	173296
Contingencies 3 %		4288
Labour Cess 1%		1429
Total =		179013
Add 10% Contractors profit (Rs.) =		17901
GRAND TOTAL for TENDER WORK with GST (Rs.).		196914
Total for 36.56 Ha. Plantation		7199175

(Rupees Seventy one lakh ninty nine thousand one hundred seventy five) only

Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 1ST YEAR MAINTENANCE OF PLANTATION (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	6
2	1st weeding, cleaning, mulching, with application of fertilizer	16
3	2nd weeding, cleaning, mulching	14
4	3rd weeding, cleaning, mulching	6
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	60
7	Application of insecticide and Organic Manure	8
8	Repairing of CPT, Contour Trench and Box Trench & fencing	30
9	Raising of seedlings for infilling	12
10	Watering to seedlings during dry spell	5
Total Mandays (Nos.).		169
X.	Cost of Labour Component @ Rs.304/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	51376.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		9247.68
Cost of labour Component for tender work with GST Ms.).		60623.68
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer/water tanker (GST: 18%)	3540.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	6230.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	60623.68
Z.	Total Cost (X + Y) =	66853.68
4	Contingency 3%	2005.61
5	Labour Cess 1%	668.54
Total =		69,528
Add 10% Contactors profit (Rs.) =		6,953
GRAND TOTAL for TENDER WORK with GST (Rs.) =		76,481
Total for 36.56 Ha. Plantation		27,96,131

(Rupees Twenty seven lakh ninty six thousand tone hundred thirty one) only


Divisional Forest Officer
Kangsabati North Division
Purulia

SCHEDULE FOR 1ST YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION) OVER 36.56 HA.

Type of plantation		
		Misc Quick Growing
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	6
2	1st weeding, cleaning, mulching, with application of fertilizer	16
3	2nd weeding, cleaning, mulching	14
4	3rd weeding, cleaning, mulching	6
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	60
7	Application of insecticide and Organic Manure	8
8	Repairing of CPT, Contour Trench and Box Trench & fencing	30
9	Raising of seedlings for infilling	12
10	Watering to seedlings during dry spell	5
Total Mandays (Nos.).		169
X.	Cost of Labour Component @ Rs.304/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	51376.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		9247.68
Cost of labour Component for tender work with GST Ms.).		60623.68
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer/water tanker (GST: 18%)	3540.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	6230.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	60623.68
Z.	Total Cost (X + Y) =	66853.68
4	Contingency 3%	2005.61
5	Labour Cess 1%	668.54
Total =		69,528
Add 10% Contactors profit (Rs.) =		6,953
GRAND TOTAL for TENDER WORK with GST (Rs.) =		76,481
Total for 36.56 Ha. Plantation		27,96,131

(Rupees Twenty seven lakh ninty six thousand tone hundred thirty one) only

*Divisional Forest Officer
Kangsabati North Division
Purulia*

SCHEDULE FOR 2ND YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION) OVER 36.56 HA.

Type of plantation

		Misc Quick Growing
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	6
2	1st weeding, cleaning, mulching, with application of fertilizer	16
3	2nd weeding, cleaning, mulching	12
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	60
7	Application of insecticide and Organic Manure	6
8	Repairing of CPT, Contour Trench and Box Trench & fencing	25
9	Raising of seedlings for infilling	10
10	Watering to seedlings during dry spell	5
Total Mandays (Nos.).		152
X.	Cost of Labour Component @ Rs.322/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	48944.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		8809.92
Cost of labour Component for tender work with GST Ms.).		57753.92
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer /water tanker (GST: 18%)	2950.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	5640.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	57753.92
Z.	Total Cost (X + Y) =	63393.92
4	Contingency 3%	1901.82
5	Labour Cess 1%	633.94
Total =		65,930
Add 10% Contractors profit (Rs.) =		6,593
GRAND TOTAL for TENDER WORK with GST (Rs.) =		72,523
Total for 36.56 Ha. Plantation		26,51,428

(Rupees Twenty six lakh fifty one thousand four hundred twenty eight) only

*Divisional Forest Officer
Kangsabati North Division
Purulia*

SCHEDULE FOR 3RD YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION) OVER 36.56 HA.		
Type of plantation		
		Misc Quick Growing
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	4
2	1st weeding, cleaning, mulching, with application of fertilizer	14
3	2nd weeding, cleaning, mulching	12
4	Cutting of Firelines (3m wide)	12
5	Watch & Ward	60
6	Application of insecticide	3
7	Repairing of CPT, Contour Trench and Box Trench & fencing	20
8	Raising of seedlings for infilling	8
9	Watering to seedlings during dry spell	4
Total Mandays (Nos.).		137
X.	Cost of Labour Component @ Rs.342/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	46854.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).		8433.72
Cost of labour Component for tender work with GST Ms.).		55287.72
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer /water tanker (GST: 18%)	2360.00
2	Cost of fertilizer (GST: 5%)	1050.00
3	Cost of Insecticide (GST: 18%)	590.00
Y.	Total Material Cost without Labour Cess (Rs.) =	4000.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	55287.72
Z.	Total Cost (X + Y) =	59287.72
4	Contingency 3%	1778.63
5	Labour Cess 1%	592.88
Total =		61,659
Add 10% Contactors profit (Rs.) =		6,166
GRAND TOTAL for TENDER WORK with GST (Rs.) =		67,825
Total for 36.56 Ha. Plantation		24,79,688

(Rupees Twenty four lakh seventy nine thousand six hundred eighty eight) only


Divisional Forest Officer
Kangsabati North Division
Purulia

SCHEDULE FOR 4TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION) OVER 36.56 HA.

Type of plantation		Misc Quick Growing
		1600
No of seedlings per ha		
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning, mulching, without application of fertilizer	12
2	2nd weeding, cleaning	8
3	Watch & Ward	30
4	Repairing of CPT, Contour Trench and Box Trench & fencing	20
5	Cutting of Firelines (3m wide)	10
Total Mandays (Nos.).		80
X.	Cost of Labour Component @ Rs.362/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	28960
Add GST.18% (sec Code.: 991579) for Tender Work over X		5213
Cost of labour Component for tender work with GST Ms.).		34173
1	Contingency 3%	1025
2	Labour Cess 1%	342
TOTAL		35540
Add 10% Contractors Profit (Rs.) =		3554
Grand Total with GST (Rs.) =		39094
Total for 36.56 Ha. Plantation		1429266

(Rupees Forteen lakh twenty nine thousand two hundred sixty six) only


Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 5TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	8
2	2nd weeding, cleaning	6
3	Watch & Ward	25
4	Repairing of CPT, Contour Trench and Box Trench & fencing	20
5	Cutting of Firelines (3m wide)	10
Total Mandays (Nos.).		69
X.	Cost of Labour Component @ Rs.384/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	26496.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		4769
Cost of labour Component for tender work with GST Ms.).		31265
1	Contingency 3%	938
2	Labour Cess 1%	313
TOTAL =		32516
Add 10% Contractors Profit (Rs.) =		3252
GRAND TOTAL for TENDER WORK with GST (Rs.) =		35768
Total for 36.56 Ha. Plantation =		1307674

(Rupees Thirteen lakh seven thousand six hundred seventy four) only


Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 6TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	8
2	2nd weeding, cleaning	6
3	Watch & Ward	25
4	Repairing of CPT, Contour Trench and Box Trench & fencing	18
Total Mandays (Nos.).		57
X.	Cost of Labour Component @ Rs.407/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	23199.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		4176
Cost of labour Component for tender work with GST Ms.).		27375
1	Contingency 3%	821
2	Labour Cess 1%	274
TOTAL =		28470
Add 10% Contractors Profit (Rs.) =		2847
GRAND TOTAL for TENDER WORK with GST (Rs.) =		31317
Total for 36.56 Ha. Plantation =		1144943

(Rupees Eleven lakh forty fore thousand nine hundred forty three) only


Divisional Forest Officer
Kangsabati North Division
Purulia

SCHEDULE FOR 7TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)		
Type of plantation		
		Misc Quick Growing
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	5
3	Watch & Ward	25
Total Mandays (Nos.).		36
X.	Cost of Labour Component @ Rs.431/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	15516.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2793
Cost of labour Component for tender work with GST Ms.).		18309
1	Contingency 3%	549
2	Labour Cess 1%	183
TOTAL =		19041
Add 10% Contractors Profit (Rs.) =		1904
GRAND TOTAL for TENDER WORK with GST (Rs.) =		20945
Total for 36.56 Ha. Plantation		69610

(Rupees Sixty nine thousand six hundred ten) only


Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 8TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	20
Total Mandays (Nos.).		30
X.	Cost of Labour Component @ Rs.457/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	13710.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2468
Cost of labour Component for tender work with GST Ms.).		16178
1	Contingency 3%	485
2	Labour Cess 1%	162
TOTAL =		16825
Add 10% Contractors Profit (Rs.) =		1682
GRAND TOTAL for TENDER WORK with GST (Rs.) =		18507
Total for 36.56 Ha. Plantation		61494

(Rupees Sixty one thousand four hundred ninty four) only


Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 9TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	5
2	2nd weeding, cleaning	4
3	Watch & Ward	18
Total Mandays (Nos.).		27
X.	Cost of Labour Component @ Rs.485/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	13095.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2357
Cost of labour Component for tender work with GST Ms.).		15452
1	Contingency 3%	464
2	Labour Cess 1%	155
TOTAL =		16070
Add 10% Contractors Profit (Rs.) =		1607
GRAND TOTAL for TENDER WORK with GST (Rs.) =		17677
Total for 36.56 Ha. Plantation		646278

(Rupees Six lakh forty six thousand two hundred seventy eight) only


Divisional Forest Officer
Kangsabati North Division
Purulia

**SCHEDULE FOR 10TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY
AFFORESTATION) OVER 36.56 HA.**

Type of plantation		
		Misc Quick Growing
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	5
2	2nd weeding, cleaning	4
3	Watch & Ward	16
Total Mandays (Nos.).		25
X.	Cost of Labour Component @ Rs.514/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	12850.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2313
Cost of labour Component for tender work with GST Ms.).		15163
1	Contingency 3%	455
2	Labour Cess 1%	152
TOTAL =		15770
Add 10% Contractors Profit (Rs.) =		1577
GRAND TOTAL for TENDER WORK with GST (Rs.) =		17347
Total for 36.56 Ha. Plantation		576534

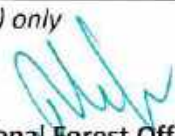
(Rupees Five lakh seventy six thousand five hundred thirty four) only


Divisional Forest Officer
Kangsabati North Division
Purulia

Model Estimates of Cutting Contour Trench over 36.56 ha

SL No.	Item of Works	unit	Quantity	Mandays	Rate	Amount
A	Labour Cost					
1	Contour Survey	Ha	1	25	294	7350
2	Earth work in contour trench in plantatio of 5m x 0.30m x 0.30 m each x 400 mtr i.e 180 m3 with lift beyond 4m and upto 4.5 m from trench	M3	45	120	294	35280
Sub Total : Mandays cost per 1 ha. =						42630.00
Total Mandays cost per 36.56 ha =						1558552.80
SL No.	Item of Works	unit	Quantity	Mandays	Rate	Amount
A	Material Cost					
1	Cost for display board	No	1		3500	3500
Sub Total : for Material Cost =						3500.00
Grand Total for (Labour+Material) over 36.56 ha =						1562052.80
Add Contingency 3% =						46862.00
Grand Total over 36.56 ha =						1608914.80
Or say =						1608915.00

(Rupees Sixteen lakh eighty thousand nine hundred fifteen) only


 Divisional Forest Officer
 Kangsabati North Division
 Purulia

Model Estimate for Earthen Dam

Sl No	Description of item	All dimension are in m				Quantity	Total Quantity	Unit	Rate	Total Amount
		No	L	B	H					
R&B P-230, It no - 2.03	Clearing grass and removal of rubbish up to a distance of 30 m outside the periphery of the area as per Technical Specifications Clause 201 for Rural Roads of MORD. By Manual Means 1x.30x.15					0.045	0.045	hect	11868.00	534.06
Road & Bridge, P-	Earthwork in excavation from borrow pits (land owned/ arranged by the core wall portion	1	25.75	1.1	0.41	11.61325				
	pitching for D/S	1	25.75	2.25	0.41	23.75438				
	Spillway	1	3	3.5	0.41	4.305	39.67263	m3	99.90	3963.29524
Road & Bridge, P-	Providing and laying boulders apron on river bed for protection against scour									
	D/S of Earthen Dam	1	25.75	2.25	1	57.9375				
	Core wall base	1	25.75	1.1	0.41	11.61325				
	spillway	1	3	3.5	0.41	4.305	73.85575	m3	493	36410.8848
spillway ad & Bridge, P- 326, It 18.32(b) 1	Masonry work with rough dressed Stones of size as directed with cement mortar, true to line, level and shape, including dressing and shaping boulders to size as required, curing complete including cost and carriage of all materials complete.(b) With cement-sand mortar 1 : 4(1) Upto height 4.0 m									
	core well	25.8	0.5	2	2.1	54.075	54.075	m3	1781.00	96307.575
Road & Bridge	Earthwork in excavation from borrow pits (land owned/ arranged by the Department) and depositing in layers of 250 mm, including breaking clods in embankment works and to fill up back of abutments, depressions and ruts with an initial lead up to 50 m and initial lift up to 1.5 m making bunds at top as									
P-234, It- 3.02(i)	i) Earthen Dam (7.5=(5+10)/2	1	25.75	7.5	1	193.125				
	ii) lift 1.5 m to 2.5 m (3.5=(2+5)/2)	1	25.75	3.5	0.8	72.1				
	iii) Deduction for	-25.8	0.5	2	1	-25.75	239.475	m3	99.09	23729.5778
P-234, It- 3.02(ii)	(ii) Beyond 50 m & up to total lead of 200 m. Volume= 25% Of total Quantity.						59.86875	m3	37.50	2245.07813
P-234, It- 3.02(ii)	(iii) Beyond 200 m & up to total lead of 300 m Volume = 35% of Total Quantity						83.81625	m3	30.00	2514.4875
Road & Bridge, P- 237, It 3.17(b)	B. Compacting original ground supporting embankment Loosening, Leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Clause 305.3.4 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).					239.475	239.475	m3	24.10	5771.3475
Road & Bridge	Turfing with Sods Furnishing and laying of the live sods of perennial turf forming	1	25.75	10.54		271.405	271.405	m2	17.60	4776.728
	Contingency									738.97
									TOTAL AMOUNT	176992.00
									C. GST 9%	15929.28
									S. GST 9%	15929.28
									Cess 1%	1769.92
									Total	210620.48
	Grand Total for 3 nos									631861.00

Rupees six lakh thirty one thousand eight hundred sixty one


 Divisional Forest Officer
 Kangsabati North Division
 Purulia

Model Estimate for Earthen Dam

SI No	Description of item	All dimension are in m				Quantity	Total Quantity	Unit	Rate	Total Amount
		No	L	B	H					
R&B P-230, It no - 2.03	Clearing grass and removal of rubbish up to a distance of 30 m outside the periphery of the area as per Technical Specifications Clause 201 for Rural Roads of MORD. By Manual Means 1x.30x.15					0.045	0.045	hect	11868.00	534.06
Road & Bridge, P-	Earthwork in excavation from borrow pits (land owned/ arranged by the									
	core wall portion	1	25.75	1.1	0.41	11.61325				
	pitching for D/S	1	25.75	2.25	0.41	23.75438				
	Spillway	1	3	3.5	0.41	4.305	39.67263	m3	99.90	3963.29524
Road & Bridge, P-	Providing and laying boulders apron on river bed for protection against scour									
	D/S of Earthen Dam	1	25.75	2.25	1	57.9375				
	Core wall base	1	25.75	1.1	0.41	11.61325				
	spillway	1	3	3.5	0.41	4.305	73.85575	m3	493	36410.8848
spillway ad & Bridge, P- 326, It 18.32(b) 1	Masonry work with rough dressed Stones of size as directed with cement mortar, true to line, level and shape, including dressing and shaping boulders to size as required, curing complete including cost and carriage of all materials complete.(b) With cement-sand mortar 1 : 4(1) Upto height 4.0 m									
	core well	25.8	0.5	2	2.1	54.075	54.075	m3	1781.00	96307.575
Road & Bridge	Earthwork in excavation from borrow pits (land owned/ arranged by the Department) and depositing in layers of 250 mm. including breaking clods in embankment works and to fill up back of abutments, depressions and ruts with an initial lead up to 50 m and initial lift up to 1.5 m making bunds at top as									
P- 234, It- 3.02(i)	i) Earthen Dam (7.5=(5+10)/2)	1	25.75	7.5	1	193.125				
	ii) lift 1.5 m to 2.5 m (3.5=(2+5)/2)	1	25.75	3.5	0.8	72.1				
	iii) Deduction for	-25.8	0.5	2	1	-25.75	239.475	m3	99.09	23729.5778
P- 234, It- 3.02(i)	(ii) Beyond 50 m & up to total lead of 200 m. Volume= 25% Of total Quantity.						59.86875	m3	37.50	2245.07813
P- 234, It- 3.02(ii)	(iii) Beyond 200 m & up to total lead of 300 m Volume = 35% of Total Quantity						83.81625	m3	30.00	2514.4875
Road & Bridge, P- 237, It 3.17(b)	B. Compacting original ground supporting embankment Loosening, Leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Clause 305.3.4 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).					239.475	239.475	m3	24.10	5771.3475
Road & Bridge	Turfing with Sods Furnishing and laying of the live sods of perennial turf forming	1	25.75	10.54		271.405	271.405	m2	17.60	4776.728
	Contingency									738.97
									TOTAL AMOUNT	176992.00
									C. GST 9%	15929.28
									S. GST 9%	15929.28
									Cess 1%	1769.92
									Total	210620.48
	Grand Total for 3 nos									631861.00

Rupees six lakh thirty one thousand eight hundred sixty one


 Divisional Forest Officer
 Kangsabati North Division
 Purulia

Abstract of Compensatory Afforestation Cost & SMC Works over 36.56 ha (90.37 Acre)

Sl. No.		Work Details	Cost
1	Compensatory Afforestation (CA Cost)	Raising seedlings or Advance Nursery work	534353
		Misc Quick Growing indigenous Plantation Creation	7199175
		1st Year Maintenance	2796131
		2nd Year Maintenance	2651428
		3rd Year Maintenance	2479688
		4th Year Maintenance	1429266
		5th Year Maintenance	1307674
		6th Year Maintenance	1144943
		7th Year Maintenance	69610
		8th Year Maintenance	61494
		9th Year Maintenance	646278
		10th Year Maintenance	576534
		Earthen Dam (3 Nos)	631861
Total =			21528434
2	Associated SMC Works:	SMC work in CA Plantation site	1608915
Grand Total: CA cost			23137349

(Rupees Two crore thirty one lakh thirty seven thousand three hundred forty nine) only

*Divisional Forest Officer
Kangsabati North Division
Purulia*



Government of West Bengal
Directorate of Forests
Office of the Deputy Field Director, Buxa Tiger Reserve (East) Division
Alipurduar Court, P.O. & Dt. Alipurduar, 736 122
Phone –(03564) 256005; Fax:: (03564) 257269, e-mail : dyfdb-wb@nic.in
Visit us at: www.westbengalforest.gov.in



No. 1758 /8-1

Alipurduar Court dated 25 /07/2023

From : The Deputy Field Director
Buxa Tiger Reserve (East) Division

To : ☒ The Divisional Forest Officer
Bankura North.

Sub : Forwarding of detailed C.A estimates in Mouza- Madhya Haldibari -reg.

Ref : Proposal No. FP/WB/MIN/43000/2019 at Parivesh Portal of West Bengal Power Development Corporation Limited.

With reference to above, please find enclosed herewith detailed Compensatory Afforestation scheme & estimates with respect to the proposal No. FP/WB/MIN/43000/2019 of West Bengal Power Development Corporation Limited at Mouza Madhya Haldibari for 16.19 ha. for your necessary action.

Encls: As above

(Debashish Sharma, IFS)
Deputy Field Director
Buxa Tiger Reserve (East) Division

No. _____ / 8-1

Alipurduar Court dated _____/07/2023

Copy forwarded for information to :

1. The Additional Principal Chief Conservator of Forests & Nodal Officer, Forest Conservation Act.
2. The Chief Conservator of Forests & Field Director, Buxa Tiger Reserve

Sd/- Debashish Sharma, IFS

(Debashish Sharma, IFS)
Deputy Field Director
Buxa Tiger Reserve (East) Division

16.19 Ha CA Advance work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Item of Work.	Mandays	Rate	
1	Cleaning & Levelling of the Nursery Site	10	310	3100
2	Preparaion of mother beds 1.20m*5m	16	310	4960
3	Sowing seeds in mother bed	10	310	3100
4	Filling of polythene tube with mixture of good earth and cow dung /FYM	50	310	15500
5	Pricking out of seedlings & dribbling of seeds in the tube	15	310	4650
6	Sorting ,shifting of seedlings	20	310	6200
7	Weeding cleaning and forking and Application of bio fertilizer,insecticide	15	310	4650
8	Watering of seedling	40	310	12400
9	Purchase of water can,water pipe ,bucket etc.			1500
10	Purchase of seeds			4000
11	Purchase of Cow Dung			6000
12	Purchase of insecticide			2000
13	Collection of good earth			2000
14	Cost of Polypots			5000
	Sub-total Cost			75060
	GST @18%			13510.8
	Cost with GST			88570.8
	Labour Cess @1%			885.708
	Cost with Labour Cess			89456.508
	Contigency @ 3%			2657.124
	Costing per 10000 seedlings			92113.632
	So,the Cost of raising 45, 332 Seedling			4,17,569.52

Note: Current wage rate for unskilled labourer in 2023-24 is 294/- . Considering the possible advance work year as 2024-25 and the annual wage increase rate of 6%, wage rate i.e. 310/- is arrived.

Countersigned

**Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve**


Deputy Field Director
Buxa Tiger Reserve (East) Division

**16.19 Ha CA Plantation Creation work estimate is prepared in connection with WBDCL Forest Diversion
Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)**

	Type of plantation	NFL NB		
	No of Seedlings per Ha	2800*		
	Spacing	2M*2M		
	Pit Size	60cm*45cm*45cm		
SL.No.	Particulars of Work		Rate	Amount
	Labour Component	MD		
1	Survey & demarcation of plantation area including GPS survey and making polygon in KML format for uploading in E-Green Watch Portal	4	328	1312
2	Burning ,removing debris and cleaning of plantation site	45	328	14760
3	Alingment of planting lines and staking the position	10	328	3280
4	Cost of digging pits	45	328	14760
5	Alingment and cutting of contour trench of size 0.45m*0.45*5m. Total 50 nos. over 250 mt per ha(well distributed)=50625 cum stagger manner to reduce run	18	328	5904
6	Sorting,shifting,weeding,cleaning & watering of seedling in nursery(April-June)	6	328	1968
7	Making inspection path	4	328	1312
8	Filling up planting pitwith dug up pulverized soil,organic manure,fungicides,micro-nutrients etc.	35	328	11480
9	Cost of carriage of seedlings from nursery to planting site	28	328	9184
10	Transplanting of potted seedling including carriage upto pit & staking	30	328	9840
11	Application of insecticides to the planted seedlings	4	328	1312
12	Infilling with potted seedlings	8	328	2624
13	Cost of application of fertilizer (organic)as per doses prescribe per pit	8	328	2624
14	1st time weeding ,cleaning,& mulching with application of fertilizer and vacancy filling	35	328	11480
15	2nd time weeding ,cleaning,& mulching with application of fertilizer and vacancy filling	20	328	6560
16	3rd time weeding ,cleaning,& mulching without application of fertilizer and vacancy	15	328	4920
17	4th time weeding ,cleaning,& mulching without application of fertilizer	10	328	3280
18	5th time weeding ,cleaning,& mulching without application of fertilizer	8	328	2624
19	Making fire lines 1.5m wide all along the periphery and 1.20m within side	8	328	2624

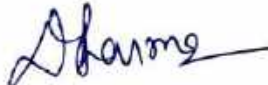
20	Cost of watch and ward from sep to march	25	328	8200
21	Chemical fertilizer @40gm DAP /plant for S. Bengal and 30gm/plant for N. Bengal(Inclusive of GST 5 %)	1	3000	3000
22	Insecticides/Hormones(inclusive of GST 18%)	1	900	900
23	Organic Manure (inclusive of GST 5%)	1	1000	1000
24	Signage(inclusive GST)	1	500	500
25	Solar Powered Fencing	1	25000	25000
26	Tong making for watchers :	1	1500	1500
27	Carriage of seedlings and fertilizer by Truck/vehicle etc(GST 5 %)	1	1000	1000
	Basic Rate			152948
	SMC Works @25%			38237
	Basic Rate with SMC works			191185
	GST 18 %			34413.3
	Cost with GST			225598.3
	Labour Cess @1%			2255.983
	Contingency @ 3%			6767.949
	Total Amount/Ha			234622.232
	So cost of making 16.19 ha plantation			3798533.94

Note 1: Current wage rate for unskilled labourer in 2023-24 is 294/- . Considering the possible plantation creation year as 2025-26 and the annual wage increase rate of 6%, wage rate i.e. 328/- is arrived.

* Note 2: 2500 seedlings plus 10% infilling per ha

Countersigned

 Chief Conservator of Forests &
 Field Director, Buxa Tiger Reserve


 Deputy Field Director
 Buxa Tiger Reserve (East) Division

1ST YEAR MAINT. WORK

16.19 Ha . 1st Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	8		
2	1st time weeding cleaning with fertilizer	22		
3	2nd time weeding cleaning with fertilizer	20		
4	3rd time weeding cleaning with fertilizer	15		
5	Fire protection	8		
6	Fire line maintenance	10		
7	Watch & Ward	28		
8	Irrigation facility	12		
		123	348	42804.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			69712.52
	SMC Works @25%			17428.13
	Basic Rate with SMC Works			87140.65
	So, cost of 16.19 Ha			14,10,807.12

Note: Current wage rate is 294/-. Considering possible 1st Year Maintenance work in 2026-27 and annual increment rate of 6%, wage rate is taken as 348/-

Countersigned

 Chief Conservator of Forests &
 Field Director, Buxa Tiger Reserve


 Deputy Field Director
 Buxa Tiger Reserve (East) Division

2ND YEAR MAINT. WORK

16.19 Ha . 2nd Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/M D	Rat e	Amount
TENDING WORKS				
1	Infilling by taller seedlings	8		
2	1st time weeding cleaning with fertilizer	18		
3	2nd time weeding cleaning with fertilizer	14		
4	3rd time weeding cleaning with fertilizer	12		
5	Fire protection	8		
6	Fire line maintenance	10		
7	Watch & Ward	18		
8	Irrigation facility	7		
		95	369	35055.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			61963.52
	SMC Works @ 25%			15490.88
	Basic Rate with SMC Works			77454.40
				1253986.7
	So, cost of 16.19 Ha			4

Note: Current wage rate is 294/-. Considering possible 2nd Year Maintenance work in 2027-28 and annual increment of 6% wage rate is taken as 369/-

Countersigned

 Chief Conservator of Forests &
 Field Director, Buxa Tiger Reserve


 Deputy Field Director
 Buxa Tiger Reserve (East) Division

3RD YEAR MAINT. WORK

16.19 Ha . 3rd Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/M D	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	8		
2	1st time weeding cleaning with fertilizer	16		
3	2nd time weeding cleaning with fertilizer	14		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	8		
6	Fire line maintenance	10		
7	Watch & Ward	18		
8	Irrigation facility	2		
		86	391	33626.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompose,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			60534.52
	SMC Works @25%			15133.63
	Basic Rate with SMC Works			75668.15
				1225067.35
	So, cost of 16.19 Ha			

Note: Current wage rate is 294/- . Considering possible 3rd Year Maintenance work in 2028-29 and annual increment of 6% wage rate is taken as 391/-

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve


Deputy Field Director
Buxa Tiger Reserve (East) Division

4TH YEAR MAINT. WORK

16.19 Ha . 4th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	5		
2	1st time weeding cleaning with fertilizer	14		
3	2nd time weeding cleaning with fertilizer	10		
4	3rd time weeding cleaning with fertilizer	10		
5	Fire protection	8		
6	Fire line maintenance	8		
7	Watch & Ward	18		
8	Irrigation facility	2		
		75	414	31050.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			57958.52
	SMC Works @25%			14489.63
	Basic Rate with SMC Works			72448.15
	So, cost of 16.19 Ha			11,72,935.55

Note: Current wage rate is 294/- . Considering possible 4th Year Maintenance work in 2029-30 and annual increment of 6% wage rate is taken as 414/-

Countersigned

Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve

[Signature]

Deputy Field Director
Buxa Tiger Reserve (East) Division

5TH YEAR MAINT. WORK

16.19 Ha . 5th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	5		
2	1st time weeding cleaning with fertilizer	12		
3	2nd time weeding cleaning with fertilizer	10		
4	3rd time weeding cleaning with fertilizer	8		
5	Fire protection	6		
6	Fire line maintenance	8		
7	Watch & Ward	18		
8	Irrigation facility	2		
		69	439	30291.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			57199.52
	SMC Works @ 25%			14299.88
	Basic Rate with SMC Works			71499.40
	So, cost of 16.19 Ha			11,57,575.29

Note: Current wage rate is 294/-. Considering possible 5th Year Maintenance work in 2030-31 and annual increment of 6% wage rate is taken as 439/-

Countersigned

Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



Deputy Field Director
Buxa Tiger Reserve (East) Division

6TH YEAR MAINT. WORK

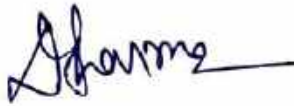
16.19 Ha . 6th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	5		
2	1st time weeding cleaning with fertilizer	10		
3	2nd time weeding cleaning with fertilizer	8		
4	3rd time weeding cleaning with fertilizer	6		
5	Fire protection	5		
6	Fire line maintenance	8		
7	Watch & Ward	18		
8	Irrigation facility	2		
		62	465	28830.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompose,Hormone			8000
12	Price of seedlings including carriage			6908.52
	Basic Rate			55738.52
	SMC Works @ 25%			13934.63
	Basic Rate with SMC Works			69673.15
	So, cost of 16.19 Ha			11,28,008.30

Note: Current wage rate is 294/- . Considering possible 6th Year Maintenance work in 2031-32 and annual increment of 6% wage rate is taken as 465/-

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



Deputy Field Director
Buxa Tiger Reserve (East) Division

7TH YEAR MAINT. WORK

16.19 Ha .7th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	5		
2	1st time weeding cleaning with fertilizer	8		
3	2nd time weeding cleaning with fertilizer	6		
4	3rd time weeding cleaning with fertilizer	4		
5	Fire protection	4		
6	Fire line maintenance	8		
7	Watch & Ward	18		
8	Irrigation facility	2		
		55	493	27115.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompose,Hormone			0
12	Price of seedlings including carriage			0
	Basic Rate			39115.00
	SMC Works @ 25%			9778.75
	Basic Rate with SMC Works			48893.75
	So, cost of 16.19 Ha			7,91,589.81

Note: Current wage rate is 294/-. Considering possible 7th Year Maintenance work in 2032-3 and, annual increment of 6% wage rate is taken as 493/-

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



Deputy Field Director
Buxa Tiger Reserve (East) Division

8TH YEAR MAINT. WORK

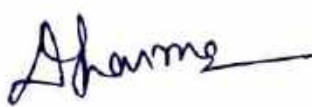
16.19 Ha . 8th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	6		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	4		
5	Fire protection	4		
6	Fire line maintenance	0		
7	Watch & Ward	3		
8	Irrigation facility	2		
		27	523	14121.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			0
12	Price of seedlings including carriage			0
	Basic Rate			26121.00
	SMC Works @ 25%			6530.25
	Basic Rate with SMC Works			32651.25
	So, cost of 16.19 Ha			5,28,623.74

Note: Current wage rate is 294/- . Considering possible 8th Year Maintenance work in 2033-34 and annual increment of 6% wage rate is taken as 523/-

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



Deputy Field Director
Buxa Tiger Reserve (East) Division

9TH YEAR MAINT. WORK (Location: Madhya Haldibari)

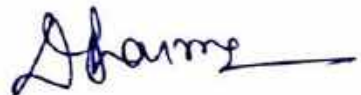
16.19 Ha . 9th Year Maint. work estimate is prepared in connection with WBPDC Forest
Diversion Proposal(338.74 Ha) under BTR East Division

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	5		
3	2nd time weeding cleaning with fertilizer	4		
4	3rd time weeding cleaning with fertilizer	3		
5	Fire protection	3		
6	Fire line maintenance	0		
7	Watch & Ward	3		
8	Irrigation facility	0		
		22	554	12188.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			0
12	Price of seedlings including carriage			0
	Basic Rate			24188.00
	SMC Works @ 25%			6047.00
	Basic Rate with SMC Works			30235.00
	So, cost of 16.19 Ha			4,89,504.65

Note: Current wage rate is 294/- . Considering possible 9th Year Maintenance work in 2034-35 and annual increment of 6% wage rate is taken as 554/-

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



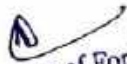
Deputy Field Director
Buxa Tiger Reserve (East) Division

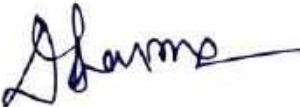
10TH YEAR MAINT. WORK

16.19 Ha . 10th Year Maint. work estimate is prepared in connection with WBPDC Forest Diversion Proposal(338.74 Ha) under BTR East Division (Location: Madhya Haldibari)

Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning with fertilizer	4		
3	2nd time weeding cleaning with fertilizer	0		
4	3rd time weeding cleaning with fertilizer	0		
5	Fire protection	3		
6	Fire line maintenance	0		
7	Watch & Ward	3		
8	Irrigation facility	0		
		14	587	8218.00
9	Solar Power Fencing Repair per Ha			4000
10	Repair of Tong			8000
Materials				
11	Supply of fertilizer,vermicompost,Hormone			0
12	Price of seedlings including carriage			0
	Basic Rate			20218.00
	SMC Works @ 25%			5054.50
	Basic Rate with SMC Works			25272.50
	So, cost of 16.19 Ha			4,09,161.78
Note: Current wage rate is 294/-. Considering possible 10th Year Maintenance work in 2035-36 and annual increment of 6% wage rate is taken as 587/-				

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve



Deputy Field Director
Buxa Tiger Reserve (East) Division

Total Estimate against 16.19 Ha CA Scheme is prepared in connection with
WBPDCL Forest Diversion Proposal(338.74 Ha) under BTR East Division
(Location: Madhya Haldibari)

ADVANCE WORK	4,17,569.52
PLANTATION CREATION	37,98,533.94
1ST YEAR MAINT. WORK	14,10,807.12
2nd YEAR MAINT. WORK	12,53,986.74
3rd YEAR MAINT. WORK	12,25,067.35
4th YEAR MAINT. WORK	11,72,935.55
5th YEAR MAINT. WORK	11,57,575.29
6th YEAR MAINT. WORK	11,28,008.30
7th YEAR MAINT. WORK	7,91,589.81
8th YEAR MAINT. WORK	5,28,623.74
9th YEAR MAINT. WORK	4,89,504.65
10th YEAR MAINT. WORK	4,09,161.78
Grand-Total (Rs.)	1,37,83,363.77

Countersigned


Chief Conservator of Forests &
Field Director, Buxa Tiger Reserve


Deputy Field Director
Buxa Tiger Reserve (East) Division