



Government of West Bengal  
Directorate of Forests

Office of the **Chief Conservator of Forests, Northern Circle**, West Bengal  
Aranya Bhawan, 2<sup>nd</sup> Floor Collectorate Avenue, Jalpaiguri-735101  
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Memo No. 687/2M-84

Dated, Jalapiguri. 18 /07/2022

✓ To

The Divisional Forest Officers,  
Jalpaiguri Division,

Sub: Approval for estimate of proposed compensatory Afforestation. (FP/WB/OFC/141578/2021)



Ref: Your letter No.1744/8-8 dt.15-07-2022.

Sir,

With reference to above this is to inform you that the estimates send by the Divisional Forest Officer Jalpaiguri Division are retuned herewith duly countersigned by the undersigned.

  
(S.K. Mollay, IFS)

Chief Conservator of Forests,  
Northern Circle, West Bengal



<b>ABSTRACT OF PROPOSED COMPENSATORY AFFORESTATION</b>			
<b>Proposal No.: FP/WB/OFC/141578/2021</b>			
<b>Area (ha.): 0.86 ha</b>			
<b>Location Range: Nathua, Beat: Nathua, Block: South Diana Area: 0.86 ha</b>			
<b>Diversion of 0.4278 ha Forest Land (in Jalpaiguri Division 0.4278 ha) in favour of TELESONIC NETWORK</b>			
SL.No	Particulars of work	Area (Ha.)	Amount (Rs.)
1	Estimate for Creation of Misc. Plantation NB	0.86	₹ 1,92,791.00
2	Total Cost of maintenance for Plantation (1st Yr. to 10th Yr.)	0.86	₹ 1,91,270.00
3	Supply of base unit Material for construction of solar power fencing	300 mt	₹ 2,04,087.00
4	Supply of Labour, Material Transportation and Installing Power Fencing with Maintenance	300 mt	₹ 1,22,452.00
5	Construction of Watch Tower		₹ 5,18,724.00
6	Estimate of Works for Solar System/Other Electrical Accessories for Protection of Watch Tower		₹ 2,24,763.00
<b>Total</b>			₹ 14,54,087.00
7	Add: Contingency @ 3% on Total	₹ 14,54,087.00	₹ 43,622.61
<b>Grand Total = (Rupees Fourteen Lakh Ninety Seven Thousand Seven Hundred Ten only)</b>			<b>₹ 14,97,710.00</b>
Countersigned by		Submitted by	
 <b>S.K. Molloy (IFS)</b> Chief Conservator of Forests, Northern Circle		 <b>Vikas V (IFS)</b> DFO, Jalpaiguri Division	

**Chief Conservator of Forests**  
**Northern Circle, W.B.**

**Chief Forest Officer**  
**Jalpaiguri Division**



Proposal No.: FP/WB/OFC/141578/2021					
Forest Range: Nathua Range			Beat: South Diana Block		
Spacing : 2m X 2m			Species : Misc.		
No. Of seedling/ ha : 2500 Nos.					
Total area to be Planted : 0.86 ha					
Size of the pit : Miscellaneous (NB)- (60 X 45 X 45cm)					
Wage of Labour : Rs. 300/- per DL					
Species to be Planted: Misc. Plantation NB					
(i) CA Area Under Jalpaiguri Division : 0.86 Hectare					
1	Cost of seedlings ( 2500 nos + 15% insurance) = 2875 nos @ Rs. 20/- seedlings	Dec to June	LS	LS	₹ 57,500.00
2	Survey and demarcation of the plantation including preparation of Regeneration Map and GPS Survey map	1 ha	₹ 600.00	1 ha	₹ 600.00
3	Initial cleaning of Preplanting plantation area by cutting jungles & undergrowth bushes as where necessary	1 ha	₹ 7,800.00	1 ha	₹ 7,800.00
4	Stacking and alignment of plantation site, collection of stacks, pitching etc.	1 ha	₹ 1,800.00	1 ha	₹ 1,800.00
5	Pit cutting Miscellaneous (NB)- (60 X 45 X 45cm)	1 ha	₹ 12,600.00	1 ha	₹ 12,600.00
6	Soil Moisture Conservation - Digging of box trench over a length of 500mt of size 5m X 0.45m X 0.45m	1 ha	₹ 11,100.00	0.5 ha	₹ 4,980.00
7	Creation of Insection Path by removing weeds, scarping and by providing proper drain along the diagonal of the plantation site of 3mt wide	100mtr	₹ 1,800.00	50 mtr	₹ 900.00
8	Pit filling and application of Farm yard Manure : i)Miscellaneous (NB)	1 ha	₹ 5,400.00	1 ha	₹ 5,400.00
9	Transplanting of Hycopots seedling into pits including man carriage from the unloading point : Miscellaneous (NB)	1000 nos	₹ 4,200.00	2500 nos	₹ 10,500.00
10	Application of insecticides and other chemicals whenever necessary	1000 nos	₹ 900.00	2500 nos	₹ 2,250.00
11	Vacancy infilling of pits with new seedling wherever there mortality due abiotic and biotic factors	100 nos	₹ 600.00	250 nos	₹ 1,500.00
12	1st Cleaning	1 ha	₹ 6,000.00	1 ha	₹ 6,000.00
13	1st Mulching	1000 nos	₹ 4,500.00	2500 nos	₹ 11,250.00
14	2nd Cleaning	1 ha	₹ 4,500.00	1 ha	₹ 4,500.00
15	3rd Cleaning	1 ha	₹ 3,900.00	1 ha	₹ 3,900.00
16	4th Cleaning	1000 nos	₹ 3,900.00	1 ha	₹ 3,900.00
17	5th Cleaning	1000 nos	₹ 3,900.00	1 ha	₹ 3,900.00
18	Creation of fireline to protect plantation from fire, by making 3mt fireline inside plantation and boundary by removing weeds and vegetation and scrapping, cutting of asll existing wwed growth to a width of 3m Heaping, burning abd re-burning in younger plantation.	100 mtr	₹ 1,500.00	150 mtr	₹ 2,250.00
19	Providing watch and ward in the form of man days to observe the plantation and protect the plantation from damages arining out biotic factors for the entire year	1 ha	₹ 4,200.00	1 ha	₹ 4,200.00
20	Organic manure (50gms/plants)	1 Mt	₹ 30,000.00	0.125 mt	₹ 3,750.00
21	Transplanting of Hycopots seedling from ursery to plantation site including loading & unloading : lead distance >20km & upto 30km: 300 CC Hycopots.	1000 nos	₹ 1,500.00	2500 nos	₹ 3,750.00
22	Collection of Hycopots after plantation & transporting back to central nursery after careful packing etc. lead distance >20km & upto 30km: 300 CC Hycopots.	1000 nos	₹ 600.00	2500 nos	₹ 1,500.00

23	Fencing : Vegetation fencing using bamboo post at least of 6ft hight with 1ft embedded underground and not more than 5ft apart with splitted bamboo of atleast 5 rows and using ipomea/brushwood/thron as locally available as filler.	10 mtr	₹ 1,500.00	100 mtr	₹ 15,000.00
24	Signage: Instattation of sign board with Forest directorate colour code and emblem of size 3' x 4ft made out of brick work and plastered and well finished and painted with good quality paint				₹ 700.00
Estimate for Creation of Misc. Plantation NB (per ha)					₹ 1,70,430.00
(A) Total area to be Planted in Ha : (0.86)				0.86	₹ 1,70,430.00
(B) Add: GST @ 12%					₹ 20,451.60
Total (A+B)					₹ 1,90,882.00
( C ) Add: Labour Cess @ 1%					₹ 1,908.82
Grand Total : { Total(A+B) + C }					₹ 1,92,791.00
Countersigned by		Submitted by			
 S.K.Mollay (IFS) Chief Conservator of Forests,Northern Circle		 Vikas.V (IFS) DFO, Jalpaiguri Division			



**Chief Conservator of Forests**  
**Northern Circle, W.B.**

**Division Forest Officer**  
**Jalpaiguri Division**





1st Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount(Rs.)
1	Infilling with 2yrs old tall seedlings including transporation cost	Apr to May	₹ 310.00	20	₹ 6,200.00
2	1st time weeding cleaning,earthing & mulching with application of fertilizer & vacancy filling.....	May to June	₹ 310.00	24	₹ 7,440.00
3	Sparying of pesticides and nutrients on the plants	May to June	₹ 310.00	5	₹ 1,550.00
4	2 <sup>nd</sup> time weeding cleaning,earthing & mulching with application of fertilizer & vacancy filling.....	Jul to Aug	₹ 310.00	15	₹ 4,650.00
5	3 <sup>rd</sup> time weeding cleaning & mulching without application of fertilizer.....	Sept to Oct	₹ 310.00	10	₹ 3,100.00
6	4 <sup>th</sup> time weeding cleaning & mulching without application of fertilizer.....	Dec to Jan	₹ 310.00	10	₹ 3,100.00
7	Cost of watch & ward for fire and grazing control from September to March over 02 no.s watcher on contract....	Apr to Mar	₹ 310.00	30	₹ 9,300.00
8	Making fire lines 1.50 mt wide all along the periphery and 1.20 mt with inside plantation.....	Dec to Jan	₹ 310.00	6	₹ 1,860.00
Cost of maintenance for 1 Ha. Plantation					₹ 37,200.00
2nd Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Infilling with 2yrs old tall seedlings including transporation cost	Apr to May	₹ 320.00	16	₹ 5,120.00
2	1st time cleaning with soil mulching/earthing up	May to June	₹ 320.00	22	₹ 7,040.00
3	Sparying of pesticides and nutrients on the plants	Jul to Aug	₹ 320.00	3	₹ 960.00
4	2 <sup>nd</sup> time time cleaning with soil mulching/earthing up	Sept to Oct	₹ 320.00	14	₹ 4,480.00
5	3 <sup>rd</sup> time cleaning with soil mulching/earthing up...	Dec to Jan	₹ 320.00	10	₹ 3,200.00
6	Cost of watch & ward for fire and grazing control from September to March over 02 no.s watcher on contract....	Apr to Mar	₹ 320.00	24	₹ 7,680.00
7	Making fire lines 1.50 mt wide all along the periphery and 1.20 mt with inside plantation.....	Dec to Jan	₹ 320.00	4	₹ 1,280.00
Cost of maintenance for 1 Ha. Plantation					₹ 29,760.00
3rd Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Infilling with 2yrs old tall seedlings including transporation cost	Apr to May	₹ 330.00	5	₹ 1,650.00
2	1st time cleaning with soil mulching/earthing up	May to June	₹ 330.00	15	₹ 4,950.00
3	Sparying of pesticides and nutrients on the plants	Jul to Aug	₹ 330.00	4	₹ 1,320.00
4	2 <sup>nd</sup> time time cleaning with soil mulching/earthing up	Dec to Jan	₹ 330.00	15	₹ 4,950.00
5	Cost of watch & ward for fire and grazing control from September to March over 02 no.s watcher on contract....	Apr to Mar	₹ 330.00	18	₹ 5,940.00
6	Making fire lines 1.50 mt wide all along the periphery and 1.20 mt with inside plantation.....	Dec to Jan	₹ 330.00	4	₹ 1,320.00
Cost of maintenance for 1 Ha. Plantation					₹ 20,130.00
4th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Infilling with 2yrs old tall seedlings including transporation cost	Apr to May	₹ 340.00	5	₹ 1,700.00
2	1st time cleaning with soil mulching/earthing up	May to June	₹ 340.00	15	₹ 5,100.00
3	Sparying of pesticides and nutrients on the plants	Jul to Aug	₹ 340.00	3	₹ 1,020.00



4	2 <sup>nd</sup> time time cleaning with soil mulching/earthing up	Dec to Jan	₹ 340.00	15	₹ 5,100.00
5	Cost of watch & ward for fire and grazing control from September to March over 02 no.s watcher on contract....	Apr to Mar	₹ 340.00	12	₹ 4,080.00
6	Making fire lines 1.50 mt wide all along the periphery and 1.20 mt with inside plantation.....	Dec to Jan	₹ 340.00	4	₹ 1,360.00
Cost of maintenance for 1 Ha. Plantation					₹ 18,360.00
5th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Infilling with 2yrs old tall seedlings including transporation cost	Apr to May	₹ 350.00	5	₹ 1,750.00
2	1st time cleaning with soil mulching/earthing up	May to June	₹ 350.00	15	₹ 5,250.00
3	Sparying of pesticides and nutrients on the plants	Jul to Aug	₹ 350.00	2	₹ 700.00
4	2 <sup>nd</sup> time time cleaning with soil mulching/earthing up	Dec to Jan	₹ 350.00	15	₹ 5,250.00
5	Cost of watch & ward for fire and grazing control from September to March over 02 no.s watcher on contract....	Apr to Mar	₹ 350.00	12	₹ 4,200.00
6	Making fire lines 1.50 mt wide all along the periphery and 1.20 mt with inside plantation.....	Dec to Jan	₹ 350.00	4	₹ 1,400.00
Cost of maintenance for 1 Ha. Plantation					₹ 18,550.00
6th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Fire Protection (Fire Watcher)	Jan to Mar	₹ 360.00	30	₹ 10,800.00
2	Mulching	Dec to May	₹ 360.00	5	₹ 1,800.00
Cost of maintenance for 1 Ha. Plantation					₹ 12,600.00
7th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Fire Protection (Fire Watcher)	Jan to Mar	₹ 370.00	30	₹ 11,100.00
2	Mulching	Dec to May	₹ 370.00	5	₹ 1,850.00
Cost of maintenance for 1 Ha. Plantation					₹ 12,950.00
8th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Fire Protection (Fire Watcher)	Jan to Mar	₹ 380.00	30	₹ 11,400.00
2	Mulching	Dec to May	₹ 380.00	5	₹ 1,900.00
Cost of maintenance for 1 Ha. Plantation					₹ 13,300.00
9th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Fire Protection (Fire Watcher)	Jan to Mar	₹ 400.00	30	₹ 12,000.00
2	Mulching	Dec to May	₹ 400.00	5	₹ 2,000.00
Cost of maintenance for 1 Ha. Plantation					₹ 14,000.00
10th Year Maintenance of Plantation		Period	Rate (Rs.)	MD/ Nos	Amount (Rs.)
1	Fire Protection (Fire Watcher)	Jan to Mar	₹ 412.00	30	₹ 12,360.00
2	Mulching	Dec to May	₹ 412.00	5	₹ 2,060.00
Cost of maintenance for 1 Ha. Plantation					₹ 14,420.00
Total Cost of maintenance for 1 Ha. Plantation					₹ 1,91,270.00
Countersigned by		Submitted by			
 S.K.Mollay (IFS) Chief Conservator of Forests, Northern Circle		 Vikas.V (IFS) DFO, Jalpaiguri Division			
Chief Conservator of Forests Northern Circle, W.B.		Divisional Forest Officer Jalpaiguri Division			



Forest Range: Nathua Range			Beat: South Diana Block			
NATURE OF WORK			Solar Power Fencing			
Area to be protected Hectare				0.86		
Fence Length (Perimeter) Meter				300		
Fence Height above ground level Meter				2.14	(7 ft)	
Number of wire rows / strands Number				7		
Specing between wire rows Meter				0.3	(1 ft)	
Pole to Pole distance Meter				5		
Total Pole Height (Above+Below Meter)				2.74	(8.5 ft)	
Ground level (1.5 ft))						
Technical Specifications for above Model and its cost						
SLN o.	Name of items	Specification	Quantity	Rate (Rs.)	Amount (Rs.)	Remarks
A.	The Electrical Unit					
1	Energizer	Input Voltage: 12V DC, Input Current: 500MA, Output Voltage: 6.0 KV - 10.0 KV, Pulse Interval: 1.2 Second, Pulse Duration: 0.3 Milli Second, Output energy: 2.5 Joules	1	25000	₹ 25,000.00	
2	Fence Voltage Alarm		1	1000	₹ 1,000.00	
3	Solar PV Module	72 Wp	1	5500	₹ 5,500.00	
4	Battery	100 Ah	1	20000	₹ 20,000.00	
5	Hooter	320 DB	1	500	₹ 500.00	
6	Lightening Diverter	Copper	2	2500	₹ 5,000.00	
7	Mounting box	Mild Steel with Powder coating	1	3000	₹ 3,000.00	
8	Module Mounting Structure with Pole	Mild Steel with Powder coating	1	1500	₹ 1,500.00	
9	Cables and Hardware	2-Core copper flexible cable (Mtrs)	5	30	₹ 150.00	
B	Fence				₹ -	
1	H.T. Wire	ACSR Conductor wire, 2.59 mm (12 guage), TATA make or equivalent	2200	5.5	₹ 12,100.00	Total perimeter for protection X no. of wire rows + 100 m extra
2	Corner / End Posts	MS with Galvanised, 40x 40 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	8	640	₹ 5,120.00	2 at gates + one per 50 meter at corners/end
3	Support Posts	MS with Galvanised, 25x 25 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	22	390	₹ 8,580.00	2 each at corner/end post + 2 at each post at 10 m
4	Intermediate Posts	MS with Galvanised, 25x 25 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	60	390	₹ 23,400.00	As per spacing
5	Support Poles Bolts	Mild Steel	22	25	₹ 550.00	One for each support post
6	Corner Poles/End Insulators	Poly Propylene	56	7	₹ 392.00	No. of Corner post and end post X number of wire rows
7	Intermediate Poles Insulators	Poly Propylene	420	7	₹ 2,940.00	No. of intermediate posts X number of wire rows
8	Corner Pole Hooks	SS	56	7	₹ 392.00	No. of Corner post and end post X number of wire rows
9	Wire Tightners	MS	21	25	₹ 525.00	One each at 100 m fence length
10	Joint Clamps	GI	21	7	₹ 147.00	One each at 100 m fence length
11	Double Insulated Cable Single Core	ACSR wire, 2.0mm Dia	50	25	₹ 1,250.00	LS
12	Earth Kits (Galvanizing)	Copper	6	700	₹ 4,200.00	one at each 50 m fence length
13	Warning Sign Boards	PVC	30	75	₹ 2,250.00	One each at 10 m fence length
C	Gates				₹ -	
1	4 ft wide gate 1 leaf		1	32350	₹ 32,350.00	LS
D	Instruments / tools					
1	Digital Multi meter	Range Upto -20000 KV	1	7500	₹ 7,500.00	
2	Xenon Flash Tube		1	3000	₹ 3,000.00	
3	Neon Tester		1	2500	₹ 2,500.00	
4	Tool kit (wire tightener handle twistin tool, pliers, double ended spanner for		1	1000	₹ 1,000.00	
Total Fencing work					₹ 1,69,846.00	
II	Civil Work					
1	Excavation for Poles :- 0.45mx0.60mx0.60m (CuM)	0.162	14.58	150	₹ 2,187.00	CuM x number of corner/end, intermediate and support posts

2	Providing and laying cement concrete for Post (Cum)		14.58	800	₹ 11,664.00	
<b>Total Civil Work</b>					<b>₹ 13,851.00</b>	
<b>Grand Total (I+II)</b>					<b>₹ 1,83,697.00</b>	
<b>(III) Installation</b>					<b>₹ 9,184.85</b>	5% of above
<b>Add: Total</b>					<b>₹ 1,92,881.85</b>	
<b>Add: GST @12%</b>					<b>₹ 23,145.82</b>	
<b>Total</b>					<b>₹ 2,02,066.70</b>	
<b>Add: Labour Cess @ 1%</b>					<b>₹ 2,020.67</b>	
<b>Total</b>					<b>₹ 2,04,087.37</b>	
<b>Total estimate</b>					<b>₹ 2,04,087.00</b>	
<b>Operation &amp; Maintenance Cost</b>						
Sl. No.	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	<b>Expenditure</b>					
i	Fixed Cost of Fencing	₹ 2,04,087.00				
ii	Operation & Maintenance Cost (15% of fixed cost)		₹ 30,613.00	₹ 30,613.00	₹ 30,613.00	₹ 30,613.00
<b>Sub-Total Cost (Yr-2 to Yr-5)</b>		<b>₹ 1,22,452.00</b>	<b>₹ 30,613.00</b>	<b>₹ 30,613.00</b>	<b>₹ 30,613.00</b>	<b>₹ 30,613.00</b>
Countersigned by			Submitted by			
 S.K. Mollay (IFS) Chief Conservator of Forests Northern Circle			 Vikas.V (IFS) DFO Jalpaiguri			



**Chief Conservator of Forests  
Northern Circle, W.B.**

**Divisional Forest Officer  
Jalpaiguri Division**



Estimate of Works for Construction of Watch Tower						
Nature of Work : Construction of Watch Tower						
Proposal No.: FP/WB/OFC/141578/2021						
Location : Nathua Range under Jalpaiguri Division						
SL No	Ref Item No.	Item of Works	Unit	Quantity	Rate (Rs.)	Amount
1	PWD-1(A)	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.	% CuM	14.4744	11,927.00	1,726.36
2	PWD-1(C)	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	SqM	28	323.00	9,044.00
3	PWD-1(C)	Labour for laying single brick flat soling including ramming and dressing bed to proper level and filling joints with powdered earth.	SqM	28	40.00	1,120.00
4	PWD-1(A)	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)	% CuM	5.5	7,754.00	426.47
	Item-3	a) With earth obtained from excavation of foundation				-
5	PWD-1(D) Item-10	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes				-
	P- 77	b) River bazree				-
		(a) In foundation and plinth				-
		(b) For column and beam				-
			CuM	12	3,925.00	47,100.00
		(c) Slub-2nos		6.5	3,925.00	25,512.50
		(d) Steps		8.5	3,925.00	33,362.50
				7.6	3,925.00	29,830.00
6	PWD-1(C) Item-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 (up to roof of ground floor)	SqM	20.9	328.00	6,855.20
7	PWD-1(C) Item-7	Brick work with 1st class bricks in cement mortar (1:4)	CuM	16.98	5,344.00	90,741.12
	P- 15	b) In superstructure, ground floor+Add 111/CuM				
8	PWD-1(I) Item-1 P-189	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] b) 20/15 mm thick plaster	SqM	86.1	138.00	11,881.80


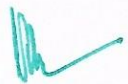


8	PWD-1(C) Item-40 P- 43	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. a) For works in foundation and upto roof of ground floor/upto 4 m i) Tor steel/Mild Steel I. SAIL/ TATA/RINL (b)Add extra over the rate of ground floor/initial 4 m for each basement floor and each additional floor below/ above ground floor (i) Upto 4 th floor roof in each addl. floor	MT	2	60,205.00	120410
9	PWD-1(I) Item-1 P- 189	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] b) 20/15 mm thick plaster	SqM	86.1	138.00	11,881.80
10	PWD/Local	Supplying, fitting and fixing normal iron railing consist of 900mm height complete as per direction of the Engineer-in-charge.	Mtr	24	1,995.00	47,880.00
12	PWD/Local	Supply fitting fixing iron door with all arrangement complete	Each	1	18,000.00	18,000.00
13	PWD-1(J) Item-2 P-194	Colour washing with "ELLA" with a coat of white wash priming including cleaning and smoothening surface thoroughly: b) Two coats	% SqM	128.1	2,177.00	2,788.74
Sub Total						4,58,560.49
Add: GST @ 12%						55,027.26
Total						5,13,587.75
Add: CESS @ 1%						5,135.88
Total = Rupees Five Lakh Eighteen Thousand Seven Hundred Twenty Four only						5,18,724.00
Certified that all rate quoted are as per Schedule of Rate or existing market rate .						
Countersigned by			Submitted by			
 S.K. Mollay (IFS) Chief Conservator of Forests, Northern Circle			 Vikas. V (IFS) DFO, Jalpaiguri Division			
Chief Conservator of Forests Northern Circle, W.B.			Divisional Forest Officer Jalpaiguri Division			



Estimate of Works for Solar System/Other Electrical Accessories					
Nature of Work : Protection of Watch Tower					
Proposal No.: FP/WB/OFC/141578/2021					
Location : Nathua Range under Jalpaiguri Division					
Sl.No.	Name of items	Specification	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A.</b>	<b>The Electrical Unit</b>				
1	Energizer	Input Voltage: 12V DC, Input Current: 500MA, Output Voltage: 6.0 KV - 10.0 KV, Pulse Interval: 1.2 Second, Pulse Duration: 0.3 Milli Second, Output energy: 2.5 Joules	1	25000	₹ 25,000.00
2	Fence Voltage Alarm		1	1000	₹ 1,000.00
3	Solar PV Module	200 watt	3	15000	₹ 45,000.00
4	Battery	150 Ah	3	11500	₹ 34,500.00
5	Inverter	850 watt	1	7000	₹ 7,000.00
				<b>Total</b>	<b>₹ 1,12,500.00</b>
<b>B</b>	<b>(I) Fence</b>				
1	H.T. Wire	ACSR Conductor wire, 2.59 mm (12 guage), TATA make or equivalent	1100	5.5	₹ 6,050.00
2	Corner / End Posts	MS with Galvanised, 40x 40 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	2	640	₹ 1,280.00
3	Support Posts	MS with Galvanised, 25x 25 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	4	390	₹ 1,560.00
4	Intermediate Posts	MS with Galvanised, 25x 25 Sq.mm Pipe, 8.5 Feet with PP Insulator revetting	2	390	₹ 780.00
5	Support Poles Bolts	Mild Steel	6	25	₹ 150.00
6	Corner Poles/End Insulators	Poly Propylene	6	7	₹ 42.00
7	Intermediate Poles Insulators	Poly Propylene	7	7	₹ 49.00
8	Corner Pole Hooks	SS	4	7	₹ 28.00
9	Wire Tightners	MS	2	25	₹ 50.00
10	Joint Clamps	GI	3	7	₹ 21.00
11	Double Insulated Cable Single Core	ACSR wire, 2.0mm Dia	3	25	₹ 75.00
12	Earth Kits (Galvanizing)	Copper	1	700	₹ 700.00
13	Warning Sign Boards	PVC	4	75	₹ 300.00
<b>C</b>	<b>(II) Gates</b>				
1	4 ft wide gate 1 leaf		1	32350	₹ 32,350.00
<b>D</b>	<b>(III) Civil Work</b>				
1	Excavation for Poles :- 0.45mx0.60mx0.60m (CuM)	0.162	1.5	150	₹ 2,187.00
2	Providing and laying cement concrete for Post (Cum)		1.5	800	₹ 11,664.00
<b>E</b>	<b>(IV) Other Electrical Goods</b>				
1	Supplying and fixing Sheet steel Main Switches on flat iron frame on wall, 415V TPN with fuse on L&N,30/32 amp,		1	1738	₹ 1,738.00
2	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection, Legrant,40 Amp TPN		1	1830	₹ 1,830.00
3	Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of following sizes in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc. 2 x 56/0.3 (4 sqmm) + 1 x 22/0.3 (1.5 sqmm)		1	123	₹ 123.00
4	Distn. wiring with 2 x 36/0.3 (2.5 sqmm) single core stranded copper conductor PVC insulated and unsheathed copper wire (Brand approved by EIC) in 19mm dia 3 mm thick polythene pipe with 1x22/0.3 (1.5sqmm) PVC insulated and unsheathed copper wire as ECC, complete with all accessories embedded in wall		12	162	₹ 1,944.00



5	Supply & Fixing Socket type fan regulator (Step type) (Brand approved by EIC) on existing sheet metal switch board with bakelite/perspex top cover by screw after making housing for regulator knob by cutting bakelite/perspex top cover incl. making necy. connections etc	1	236	₹	236.00
6	Supply & Fixing 240 V, 4 nos. 6A, plug socket with separate 4 nos. 6 A Piano key type switch, indicator & 16A kit-kat flush type fuse (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 240x200x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required	3	581	₹	1,743.00
7	Earthing with 80 mm dia GI pipe (TATA-Medium)x 3.0 Mts. long and 1 No. 65 mm x 8 mm galvanized (Hot Dip) steel strip (4 Mts. long), 20 mm dia x 125 mm long galvanized bolt, double nuts, double washers including finishing both ends by making holes etc. and S & F 80 mm dia GI pipe (ISI-Medium) protection (3 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level to an average depth of 3.65 Mts	1	5349	₹	5,349.00
8	6A Modular type Switch, PWD schedule Page K3	8	67	₹	536.00
9	16A Modular type Switch	6	104	₹	624.00
10	6A kit kat rewirable fuse	2	32	₹	64.00
11	3-way Ceiling Rose/Holder	8	18	₹	144.00
12	1200 mm 3 blade ceiling fan, orihent, hevels, Crompton	1	2600	₹	2,600.00
13	LED Tube Light, 9W 2 feet	2	400	₹	800.00
14	LED 10W B22 T bulb	6	286	₹	1,716.00
<b>Grand Total (I+II)</b>				₹	<b>1,89,233.00</b>
<b>Add: Gst @ 12%</b>				₹	<b>22,707.96</b>
<b>Total</b>				₹	<b>2,11,940.96</b>
<b>(III) Installation @ 5%</b>				₹	<b>10,597.05</b>
<b>Total</b>				₹	<b>2,22,538.01</b>
<b>Add: Labour Cess @1%</b>				₹	<b>2,225.38</b>
<b>Total</b>				₹	<b>2,24,763.00</b>
Countersigned by					Submitted by
 S.K. Molloy (IFS) Chief Conservator of Forests, Northern Circle <b>Chief Conservator of Forests</b> <b>Northern Circle, W.B.</b>					 Vikas. V (IFS) DFO, Jalpaiguri Division <b>Divisional Forest Officer</b> <b>Jalpaiguri Division</b>