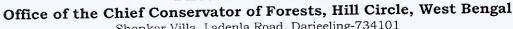
Government of West Bengal Directorate of Forests







No. 1608/C2-268/2022,

Dated, Darjeeling the & / December/2022.

To

The Divisional Forest Officer, Kalimpong Forest Division

Sub

Approval of estimates for Compensatory Afforestation against the

proposal diversion of 2.939 ha of forest land.

Ref

Your letter No. 4231/9-46 dated 29.11.2022

With reference to aforementioned letter, the estimates of Compensatory Afforestation against the proposal diversion of 2.939 ha (Kalimpong Forest Division) of forest land for Muck Dumping for construction Rehabilitation and upgrading of two lane paved shoulders of NH717A is hereby approved and duly countersigned by the undersigned.

A copy of the same is returned herewith for taking necessary action.

(S. Gajamer IFS)

Chief Conservator of Forests Hill Circle, West Bengal 3011112 Follistross



Government of West Bengal

Office of the CCF
Hill Circle, W.B.,
Reg. No. 3228
Case No. C. 2 768
Date 1: 12

Directorate of Forests

Office of the Divisional Forest Officer, Kalimpong Forest Division Ringkingpong Road, Kalimpong:: 734301

Phone - Fax:: (03552) 255496.Email Id-dfokpgdiv@gmail.com/dfokalsc-wb@nic.in

Memo No. (173/19-46

Dated, Kalimpong, the 29.11.2022

To,

The Chief Conservator of Forests, Hill Circle, West Bengal.

Sub: <u>Approval for Details</u> estimates of Compensatory Afforestation against the proposal No <u>FP/WB/Road/154398/2022</u>

Sir/Madam

With reference to the above, kindly find herewith the details estimates of Compensatory Afforestation against diversion of 2.939 ha of forest land for Muck Dumping for Construction Rehabilitation and upgrading of two lane paved shoulders of NH717A under the jurisdiction of Kalimpong Forest Division.

This is for your kind Approval and taking necessary action.

Enclosed: As Stated

Divisional Forest Officer, Kalimpong Forest Division pensatory Afforestation against Diversion of 2.939 ha of forest land for Muck Dumping for Construction Rehabilitation and upgrading of two lane paved shoulders of NH717A

SI No	Particulars of Work	Ha/PHY	@	Amount(Rs)
1	Advance Work	5.8780	35274	207,341
2	Creation Work	5.8780	114190	671,209
3	1st Year Maint Work	5.8780	56230	330,520
4	2nd Year Maint Work	5.8780	46004	270,412
5	3rd Year Maint Work	5.8780	36989	217,421
6	4th Year Maint Work	5.8780	39852	234,250
7	5th Year Maint Work	5.8780	40808	239,869
8	6th Year Maint Work	5.8780	33590	197,442
9	7th Year Maint Work	5.8780	40235	236,501
10	8th Year Maint Work	5.8780	48290	283,849
11	9th Year Maint Work	5.8780	57930	340,513
12	10th Year Maint Work	5.8780	69500	408,521
13	Erection of Elphant proof power fencing		256822.00	256,822
14	Construction of Watch Tower for crop protection cum wildlife depreadation tower /	1.0000	236693.00	236,69
	Total			4,131,36

Rs (Forty one lakh thirty one thousand three hundred sixty two) Only

Divisional Forest Officer Kalimpong Forest Division

Countersigned

Chief Conservator of Forest Hill Circle, West ilengal

ompensatory Afforestation against Diversion of 2.939 ha of forest land for Muck Dumping for Construction Rehabilitation and upgrading of two lane paved shoulders of NH717A

Spacing= 2 m X 2m

		0000000	
Smar	nr	MAIrco	llaneous
Sher	100	IAIIPCE	manieuus

			CA Area under Kallmpong Forest Division	on	
SIno	Range	Beat	Block/Comptt		Area in Ha
1	Chel	Mongpong	Mongpong-7 & 9		5.8780
				Total	5.8780

(I) Advance Work

SI no	Particulars of works	Perlod	Labour	Materials
1	Preparation of Mother bed	Dec	1	
2	Collection of seeds/Purchase of seeds	Dec-June	5	
3	cost of big polypots in field nurseries/extra hycopots in central nurseries.			1250
4	Cost of sand, compost and top soil			7500
5	sowing of seeds in mother bed	Dec-June	5	
6	Transplanting of seedlings to polypots/hycopots	Jan-Jul	15	
7	weeding, forking, sorting, shifting, watering, pesticide and nutrients application	17 months	51	2500
	Total Labour Component @ RS 312/-		24024	
NAME OF STREET	Total Material Component			11250
	Total for Advance Work / Ha			35274

S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Survey and Demarcation of plantation area including GPS survey	Nov-Dec	1	
2	Making soll profile for 2 ft X2 ftX 5 ft at a random point, collection of soil samples for the	Nov-Dec	3	
3	Preparation of site and 1st round of preparatory cleaning of all weeds(controlled burning/manual and mechanical Cleaning and burial for composting/spraying of non selective systemic herbicides)	Dec-Jan	30	
	Alignment of planting lines and stacking the pit position	Маг-Арг	4	
5	Cost of digging pits	Mar-Apr	33	
7	Maintenance of seedlings in nursery (sorting, shifting, weeding, forking, hardening, spraying	Mar-May	4	
	Cost of carriage of seedlings from nursery to plantation site	Mar-May	18	3
	Barbed wire fencing with alternate bamboo and Iron posts in plains and foothills	Mar-May		14000
	Brushwood fencing with additional cost on transportation of seedlings and additional	Mar-May	30	4000
	2nd round of preparatory Cleaning of all weeds(controlled burning/ manual and mechanic		8	3
12	Filling of pits with application of organic manures, biofertilizers and biocontrol agents inside	Apr-May	4	1200
13	Planting of seedlings with staking/Dibbling of Sal seeds, seed cost with cleaning of weeds	May-Jun	18	3
14	1st time cleaning with soll mulching/earthing up with min 1 ft radius earth basins with	May-Jun	18	3
15	Spraying of Pesticides and nutrients on the plants	May-Jun		1 100
	2nd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with	Jul-Aug	15	
17	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with	Sep-Oct	13	
18	4th time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Dec-Jan		3
19	Sth time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Feb-Mar		5
	Watch and ward	Jun-Mar	11	
21	Creation of fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan		5
22	Signages			1000
23	Other contingencies 3%		-	332
	Total Labour Component @ Rs 374		88264	
	Total Material Component			25926
	Total for Creation Work / Ha		1	114190

Countersigned

Chief Conservator of Forests Hill Circle, West Epagal The Restaurant Comment Continued to Kinpons

S.No	1st year maintenance of Plantation Particulars of works	Period	Labour(mo	Material
1	Repair of Barbed wire fencing with alternate bamboo and Iron posts in plains and foothills	Apr-May	Labour(IIII	
	mepair of or ustrood rending and additional cost on transportation of specification	Apr-May	10	5000
2	infilling with 2 years old tall seedlings including transportation cost		10	2620
4	1st time cleaning with soil mulching/earthing up with min 1 ft cadius each backs with	Apr-May	10	
7	apraying of Pesticides and nutrients on the plants	May-Jun	20	
6	2nd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with	May-Jun	3	1000
7	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with	Jul-Aug	12	1000
8	4th time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Sep-Oct	8	1000
9	Watch and ward	Dec-Jan	8	
	Creation of fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Apr-Mar	24	
11	Repair of Signages	Dec-Jan	4	
	Other contingencies			1000
1	Total Labour Component @ Rs 449/-			159
	Total Material Component		44451	
-				11779
	Total for 1st year Maint Work / Ha			56230

2nd Year maintenance of Plantation Particulars of works	Period	Labour(me	Material
1 Repair of Barbed wire fencing with alternate bamboo and iron posts in plains and foothills	Apr-May	Smiles	250
= Inchair of programmond felicing with additional cost on transport	Apr-May	5	131
Infilling with 2 years old tall seedlings including transportation cost Ist time cleaning with soil mulching/earthing up	Apr-May	5	101
5 2nd time cleaning with soil mulching/earthing up	May-Jun	20	
6 3rd time cleaning with soil mulching/earthing up	Sep-Oct	12	
7 Watch and ward	Dec-Jan	8	
8 Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Apr-Mar	24	
9 Other contingencies	Dec-Jan	4	
Total Labour Component @ Rs 539/-			15:
Total Material Component		42042	
			3962
Total for 2nd year Maint Work / Ha			

S.No	Particulars of works	Period	Labour(mo	Material cost(Rs.)
2	Infilling with 2 years old tall seedlings including transportation cost 1st time cleaning with soil mulching/earthing up	Apr-May	5	
3	2nd time cleaning with soil mulching/earthing up	May-Jun	15	
4	Watch and ward	Dec-Jan	15	
	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Apr-Mar	18	
6	Other contingencies	Dec-Jan	4	
	Total Labour Component @ Rs 646/-			16
	Total Material Component		36822	
-				16
	Total for 3rd year Maint Work / Ha			36989

	4th Year maintenance of Plantation			
S.No	Particulars of works	Period	Labour(me	Material cost(Rs.)
	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	5	
	1st time cleaning with soil mulching/earthing up	May-Jun	15	
3	2nd time cleaning with soil mulching/earthing up	Dec-Jan	15	
4	Watch and ward	Apr-Mar		
5	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation		12	
6	Other contingencies	Dec-Jan	4	
3	Total Labour Component @ Rs 776/-			276
the sheets	Total Material Component		39576	
	rotor material component			276
	Total for 4th year Maint Work / Ha			39852

Chief Conservator of Forests
Hill Circle, Vi

DIVISIONAL FUNERI OFFICER Kallapong Nerest Division Kalimpong

No	5th Year maintenance of Plantation			
1	Particulars of works Infilling with 2 years old tall seedlings including transportation cost 1st time cleaning with soil multiplication.	Period	Labour(mo	Material
		Apr-May	5	555(113.)
	and time cleaning with soil mulching (each)	May-Jun	15	
	Worth and Ward	Dec-Jan	15	
5	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation Other contingencies	Apr-Mar	12	
-		Dec-Jan	4	
-	Total Labour Component @ Rs 796/-			2
-	Total Material Component		40596	
	Total for 5th year Maint Work / Ha			21
				4080

S.No	6th Year maintenance of Plantatio	11		
1	Fire protection (Fire watcher) Mulching and remaining	Period	Labour(mo	Material cost(Rs)
6	Mulching and repairing of fench etc Other contingencies	Jan-Mar	30	1000(100)
	Total Lat	Dec-May	5	
	Total Labour Component @ Rs 955/-			10
	rotal Material Component		33425	
	Total for 6th year Maint Work / Ha			16
				3359

No	7th Year maintenance of Planta	Tion .		
1 Fire prot	Particulars of works g and repairing of fench etc	Period	Labour(m	Material
6 Other co	ntingencies	Jan-Mar	30	
Total Lab	oour Component @ Rs 1146/-	Dec-May	5	
Total Ma	terial Component		40110	1
	Total for 7th year Maint Work / Ha		40110	12

.No	8th Year maintenance of Plantatio	<u>n</u>		
6	Particulars of works Fire protection (Fire watcher) Mulching and repairing of fench etc Other contingencies Total Labour Component @ Rs 1376/- Total Material Component	Period Jan-Mar Dec-May	Labour(m	
	Total for 8th year Maint Work / Ha		48160	1

No	9th Year maintenance of Planta	ation		
2 Mulching and regaling off	clculars of works	Period	Labour(me	Material
6 Other contingencies		Jan-Mar	30	
Total Labour Component @ Rs 1651		Dec-May		
Total Material Component				1
			57785	
Total for 9th	year Maint Work / Ha	,		14
				5793

Perlod		Material
	Labour(m	Coctipe
Jan-Mar	30	cost(ns.)
Dec-May		
		10
	69335	
	09335	
		Dec-May 5

Chief Consenter of Forests

DIVISIONAL FOREST OFFICER Kalimpony Forest Division Kalimpony

ESTIMATE FORM Year: 2021-2022 FOREST DIRECTORATE, WEST BENGAL, KALIMPONG DIVISION

compensatory Afforestation against Diversion of 2.939 ha of forest land for Muck Dumping for Construction Rehabilitation and upgrading of two lane paved shoulders of NH717A

Nature of Works :: Erection of Elphant proof power fencing

SL	Description of Item	Qty	Rate	Unit	Amount
1	Energizer Super 600 (Make -Ashish Enterprise)	1	28000.00	no.	28000,00
	Solar PV Module 12V X 80W Solar, Maintenance free solution for				
- 6	permanent fencing. 12V X 80 W solar Pv module to charge the 130 Ah				
2	battery.(Make-TATA)	1	6000.00	no.	6000.00
3	Battery 12V 100 Ah(Make Exide with 5 years warrentee)	1	12000	по.	12000.00
4	Lightening Diverter kit, helps divert lightening from the fence to earth saving the Energizer in most cases and increases shockbility.	1	1700.00	set	1700.00
5	Super Earth Kit-Augar a hole 1 metre deep and 100 mm (4") in diameter in moist area. Place stainless steel rod in center of hole and drive 50 mm in to ground. Mix bentonite and salt and pour mixture into hole around rod. Top up hole with coarse sand or gravel. water well. Connect s/ steel rod 0 energizer and test earth, if inadeqate install another earth kit 10 metres away.	2	2210.00	set	4420.00
	DigitalVolt Meter: DVM (Imorted), pocket size 66 mm X 1.36 mm (3 1/2" X 5 1/4") helps trance to fence line short - circuit and faults powered by one 9 volt battery displays fence voltage in 100 volt increments under 10 KV displays voltage from 10 KV to 15 KV in 1000 volts increments activated when fence pluse is detected auto run display to show low battery condition, earth stake for easy of ground connection, improved temperate stability, water resistant etc (Make Ashish Enterprises Gallager etc)		4000.00	No	4000.00
- 1	Ashish Enterprises duringer etcy	 	4000.00	140.	4000.00
	Double Insulated wire heavily hot dip galvanized cable extrea long life				
	ncreased conductivity ideal for bending wire easy to handle	25	85.00	mtr	2125.00
	Neon Tester, 5 nos indicator lights show approximate voltage reading, Excellent greater than 4800 volt. Good 3800 volt to 4800 volt. Fair 2500 volt to 3800 volt. Poor 1800 volt to 2500 volt. Very poor 1000 volt to 3800 volt.		000.00		980.08
	volt to 2800 volt. No lilghts less than 1000 volts.	<u> </u>	980.00	no.	380.00
- 1	Tool kit, inculdes, spanner, wire Twisting tools, permanent wire tightner handle etc.		1120.00	cat	1120.00
	1/2* P.V.C. flexible pipe for protection double insulated wire heavily	 	1120.00	1261	1120,00
	hot dip galvanized wire	25	12.00	mtr	- 300.00
	Conrner Post Conrner Post 2500 mm X 50 mm with support post 2500	10	2800.00	ster	28000.00
1	mm X 25 mm plpe Galvaxized / Epoxy coated with brakect. Intermidiate Post 2500 mm X 25 mm X 25 mm X 3 mm T section or L	10	2800.00	3(62	2000000
	angle Galvaxized / Epoxy coated,	30	470.00	nos.	14100.00
12	on Be delivatived / Lipoxy couled.		470.00	1,,55,	- International Control of Contro
13	H.T.G.I. wire heavily hot dip galvanized high carbon high tensile confirming to international specification extra long life increased conductivity ideal for fencing wire easy to handle	50	145.00	kg	7250.00

Chief Conservator of Forests

DIVISIONAL FOREST OFFICER
Kallengong Forest Division
Kallengong

ckinig distance for minimum poer ngth, UV resistant glass filled polyester of fence, ensure drain is from cnetre of	
algh donsity - III (1200.0
le at the certre allows quick run off of all juction of iron structure fence and	
200 15.00 nos.	3000.0
r, Strong, lighweight, rust resistant clip position allow correct wifre Ashish Enterprises / Gallagher etc) 50 100 00 per	
	5000.0
nates regular tensioning helps fence ssure also tensioning short lingths of etc.	
50 320.00 nos.	16000.0
r jumber connection etc. 50 9.00 nos.	450.0
tion of rope and spring for length n up to 3 mtrs (10.5 ft) gateway gate handles has large protective look. Retracts to hanging position 5.5 gate handles, insulated gate spring act. 2 1350.00 set	
1350.00 56[2700 0
of warning signs has to be placed all egulations, warning signs are from hindi and english, they are colour.	2700.00
rom hindi and english, they are colour.	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each alvanized extra long life increased easy to handle	
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each alvanized extra long life increased easy to handle 10 148.00 kg ant 60 100.00 set	450.00 1480.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each alvanized extra long life increased easy to handle 10 148.00 kg ant 60 100.00 set	450.0 0
agulations, warning signs are from hindi and english, they are colour. 10 45.00 each each easy to handle 10 148.00 kg	450.00 1480.00 6000.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each alvanized extra long life increased easy to handle 10 148.00 kg ant 60 100.00 set	450.00 1480.00 6000.00 20000.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each alvanized extra long life increased easy to handle 10 148.00 kg ant 60 100.00 set	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each seasy to handle 10 148.00 kg ant 60 100.00 set ding 1st year maintenance	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each selvanized extra long life increased easy to handle ant 60 100.00 set ding 1st year maintenance	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each seasy to handle 10 148.00 kg ant 60 100.00 set ding 1st year maintenance Total amount GST@18%	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each seasy to handle 10 148.00 kg ant 60 100.00 set ding 1st year maintenance Total amount GST@18% 18% Grand Total	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each selvanized extra long life increased easy to handle ant 60 100.00 set ding 1st year maintenance Total amount GST@18% 18% Grand Total Add Labour cess 1%	450.00
regulations, warning signs are from hindi and english, they are colour. 10 45.00 each seasy to handle 10 148.00 kg ant 60 100.00 set ding 1st year maintenance Total amount GST@18% 18% Grand Total	450.00

Divisional Forest Officer, Kalimpong Forest Division.

Chief Conservator of Forests
Hill Circle, West Bengal

KALIMPONG FOREST DIVISION WORK ESTIMATE FORM Place of work : Mongpong-7 , Chel Range Kallmpong Forest Division

of work: Construction Watch Tower for crop protection cum wildlife depreadation tower / Watch Tower tower at JFMC area for Protection of Crop from Elephant &

Compensatory Afforestation against Diversion of 2.939 ha of forest land for Muck Dumping for Construction Rehabilitation and upgrading of two lane paved shoulders of

	A. Construction Watch Tower				ved shoulders of
11	Item of works	T	T		
	Pg 1 Item No 2 (a)	Unit	Quantity	Rate (Rs)	Amount (Rs
1	Cost for earthwork in excavation over:				
1	a) Depth of excavation not exceeding 150 mm	6			
	4x1.65x1.65x1.65 = 17.97 cum				
	Pg 1 Item No 3 (a)	cum	17.97	119.27	2,143.28
2				117.27	2,143.20
2	Earth work in filling in foundation trenches or plinth with good earth 1/5x 17.97 = 3.59 cum				
	1/5x 17.97 = 3.59 cum				
	Pg 246 Item No 61	cum	3.59	77.54	278.37
1	Labour for laying 150mm to 200 mm boulder soiling including rough joints with sandy or clavey soil	_		The second secon	
3	with sandy or clayey soil.				
Ŀ	4x1.65x1.65 = 10.89 m2				
-	Cost of boulder 3.58	m2	10.89	64	696.96
	Pg 12 Item No 5(b)	cum	3.58	1200	4,296.00
1	Ordinary cement concrete (1:2:4) with graded stone chips (20 mm nominal				
1 1	to dame shuttering and reinforcement it only in to				
r	elevant IS codes				
		-			
		+			
P	g 28 Item No 15(a)(i)(I)	cum	8.65	5138	44,443.70
R	einfotcement for reinforced concrete work in all sorts of atmost	-			
111	icluding distribution pars, stirrup, binders etc. 16 gauge black opposited at				
at	t evry intersection complete vide item no 4				
) (T			
P	g 27 Item No 12(a)	MT	0.52	57622	29,963.44
		-			
H	ire and labour charges for shuttering using plyboard or steel shuttering				
10	01011111: 4x2x2x6x0.25 = 24 m2				
T	ie beam: $13x3x1.75x0.2 = 13.65 \text{ m}2$				
PI	atform Slab: $2x2 = 4 \text{ m}2$				
	4x2x0.10 = 0.80 m2				
-	otal = 64.58 m2				
P	30 Item No 21(b)	m2	64.58	344.5	22,247.81
Bi	rick work with 1st class brick in cement mortar (1:4)				
77	(2.5 AU, 125 X1.10 = 1.50 cum)				
Pg	164 Item No 2 (ii)(a)	cum	1.5	6599	9,898.50
Pl	aster to wall, floor, ceiling etc) with sand and cement morter				
30	out the second s				
PE	2 -00 11011 110 0	m2	36	197	7,092.00
Ne	et punning about 1.5 mm thick in wall,floor etc				
8x	1.05 = 13.2 m2	2	10.01		
		m2	13.2	34	448.80

UIVISIONAL FOREST OFFICER
Kainspung Forest Division Kilimpong

₃m No 2 (I)				
uctural works in				
.uctural works in roof truses with tubular section beyond the init olumn: $4x2 = 8$ rmt.				
olumn :4x2 = 8 rmt.	ial 8			
11. uillier : 7.2 - c				
10 Runner: 2x6 = 12 rmt.				
Rafter : 2x6 = 12 mt				
Purlin : 4x 3 = 12 rmt				
10131				
1 rmt = 10 Kg/mt = 50 rmt				
Do CE .				
Pg 65 Item No 24 (i) (6)				
Galydillsed co	MT	0.49	(100	T
fitted minimum side lap 0.63 mm thick sheet fitted minimum side lap 0.63 mm thick sheet			61691	30,228.59
6x3.10 = 25.6 m2 mm thick sheet	k)			0.000
Add wastage = 0.975 m2				
Pg 65 Item No 30 (A) (b)				
12 Galvanised in (b)	226 m2	7		
		26	679	17,654.00
complete (225 mm end lapping) 063 mm thick				
	mtr		1	
13 Slabs for iron stair (cc work)	11111	10	399	3,990.00
				3,550.00
14 Ladder with iron bar including supply, fitting & fixing all complete A Total for IV	25 cum			
supply, fitting & fixing all complete	25 cum	1.25	5138	6,422.50
- Total for Watch Tower				34.925.00
(15) 2c appliant				34,825.00
7 Cost of civil works excluding Labour welfare			T	214,628.95
Labour welfare cess @1%	cess		-+	38,633.21
Cost of civil works including Labour welfare Contingency also				253,262.16
Continuous Including Labour welfare	cess			2,532.62
energy charge (a)3%				255,794.78
Total cost				7,597.86
Grand Total Construction Watch Tower				263,392.65
Rupees (Two lakh thirty six thousand six hundre		30,000		
		22220		236,693.00

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Divisional Forest Officer, Kalimpong Forest Division.

Countersioned

Chief Conservator of Forests Hill Circle, West Bengal