Government of West Bengal Directorate of Forests

Office of the Principal Chief Conservator of Forests, Head of Forest Force

Aranya Bhawan, Block: LA-10A, Salt Lake City, Sector - III, Kolkata:: 700 106 Phone - Fax:: (033) 2335 8581/7751, e-mail: nfcawb@gmail.com

Visit us at: www.westbengalforest.gov.in

No-

/L & LT/2M-38/2021

Dated: 04 .05.2023

To:

The Additional Chief Secretary to the Govt. of West Bengal, Department of Forests.

Sub:

Tilaboni ECL Coal Mine Project. (Proposal No. FP/WB/MIN/41301/2019).

Ref:

EDS letter_no. IRO/KOL/WB/MIN/41301/2019/57 dated. 20th February, 2023.

Sir,

With reference to above it is submitted that.

- Site Specific CA scheme with related documents have been uploaded in Part-II of i. Parivesh Portal.
- Cost Benefit Analysis has been submitted by User Agency Online. ii.
- CA is being proposed over double degraded forest land. User Agency has submitted iii. undertaking.

The above information has been uploaded on Parivesh Portal. The proposal may please be forwarded to Integrated Regional Office, Kolkata for necessary action.

Encl: As stated above.

Yours faithfully,

Addl. Principal Chief Conservator of Forest

& Nodal Officer, Forest Conservation Act.

No-

/L & LT/2M-38/2021

Dated: 04.05.2023

Copy forwarded for information and necessary action to:

- 1. The Chief Conservator of Forests, South-West Circle, West Bengal.
- 2. The Chief Conservator of Forests, South-East Circle, West Bengal
- 3. The Divisional Forest Officer, Durgapur Forest Division.
- 4. The Divisional Forest Officer, Purulia Forest Division.
- 5. The Divisional Forest Officer, Kangsabati (North) Forest Division
- 6. The General Manager (Env) Eastern Coal Field Limited, Borachak House, Sitarampur, Burdwan-

Addl. Principal Chief Conservator of Forest & Nodal Officer, Forest Conservation Act.

ntra Coj



भारत सरकार/Government of India पर्यावरण, वन एवं जलवाय परिवर्तन मंत्रालय

Ministry of Environment, Forest & Climate Change एकीकृत क्षेत्रीय कार्यालय, कोलकाता/ Integrated Regional Office, Kolkata IB-198, Sector - III, Salt Lake City, Kolkata-700106

Phone: 033-2335-0902, E-mail: iro.kolkata-mefcc@gov.in



Date: 20th February 2023

No. IRO/KOL/WB/MIN/41301/2019/57

To, The Addl. Chief Secretary,

> Department of Forests, Government of West Bengal,

Aranya Bhawan, Block-LA, 10-A, Sector – III,

Salt Lake City, Kolkata - 700106.

Sub: Proposal for diversion of 38.38 ha forest land in favour of Eastern Coal Field Limited (ECL) for Tilaboni UG Coal Mine Project under Durgapur Forest Division, West Bengal -reg.

I am directed to refer to the Government of West Bengal letter No.113-For/O/L/10T-14/2022 dated 20.01.2023 on the above-mentioned subject seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980. The proposal has been examined by this office in accordance with Forest (Conservation) Act, 1980 and the following information/ documents are still required to upload in Parivesh portal for further processing of the project.

Site specific CA scheme along with toposheet map, kml file and CA land

suitability certificate from concerned DFO.

Cost Benefit Analysis is not complete. Under 'estimation of cost of forest diversion' - the cost of CA is not included and Cost Benefit Ratio is not defined. Also, rate of NPV calculated by taking forest density 0.4 instead of 0.7, as mentioned by concerned DFO in Part-II. Corrected CBA needs to be submitted.

It may be clarified, whether CA over double degraded forest land as well as plantation of 1,30,000 plants both recommended by State Forest Department or not. Comments/ undertaking of User Agency in this regard need to be submitted

Therefore, it is requested that kindly upload the above mentioned information/ documents in the PARIVESH portal for further consideration of the proposal.

Yours Sincerely,

(Dr. S. Hare Krishna Murti) Assistant Inspector General of Forest Copy to:-

1. The PCCF & HoFF, Department of Forests, Government of West Bengal, Aranya Bhawan, Salt Lake City, Kolkata, 700098.

2. The APPCF cum Nodal Officer (FCA), Department of Forest, Government of West Bengal, Aranya Bhawan, Salt Lake City, Kolkata, 700098.

3. The Divisional Forest Officer, Durgapur Forest Division, West Bengal.

4. The GM (Env), ECL, Borachak House, Sitarampur, Burdwan-713359.

5. Guard file

Assistant Inspector General of Forest

Scheme for Compensatory Afforestataion Under Kangsabati North Division, over 50 Ha Area.

Detailed Scheme of Compensatory Afforestation over 50 ha. Under Purulia Para Range, Kangsabati North Division, Purulia.

1.	Details degraded Forest Land:	::			
	(i) District:	::	Purulia	entalle in construction of the second in construction and a second on the debate per class to their construction of the second in the second i	
	Name of Forest Division:	::	Kangsabati North Division		
	Block/ Compartment/ Survey No./ Mouza	::	Range-Purulia Para, Mouza-5 373, Area- 20 Ha, & Mouza- 3640, Area-30 ha.	Suklara, JL No – 208, Plot No Naudiha, JL No. 61, Plot No.	
	Village	::	Suklara & Naudiha		
	Area to be Afforestated	::	50 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 Sal and Sal As 1600 nos. seedlings per ha.	ssociate Species (60 40) with	
4.	Schedule of Plantation Programme	::	The Compensatory Afforestation on degraded forest would be started by the Divisional Forest Officer as ear possible after the proposal is formally approved.		
5.	Details of year-wise break up of requirement of	::	Advance work,	Rs 730789 00	
	fund is as under wage rate is as under wage rate		Creation	Rs 9845699.00	
	Rs. 294.00 which may be increased as per existing labour rate.		1st Year Maint.	Rs. 3824030.00	
			2 nd Year Maint	Rs 3626132.00	
			3 rd Year Maint.	Rs. 3391258.00	
			4 th to 10th Year Maint.	Rs. 9032715.00	
			SMC works in CA Site	Rs.2199050.00	
			Earthen Dam	Rs. 210620.00	
			Total for 50 ha	Rs.32860293 00	
			Rupees Three crore twenty eighundred ninety three only.		
6.	Technical details	::	Technical details of compe follows	nsatory afforestation are as	
	a) General Detail:	::	Sal & Sal Associate seedlings	1600/Ha	
	b) Spacing:	::	2.5x2.5 mtr.		
	c) Species:	::	Sal & Sal Associate Species.		
	d) Nursery technique:	::	Seedlings raised in 300 cc hycopot		
	e) Site	::	Pit size .60x.60+.60/2x.60 m3		
	f) Planting method:	::	All Sal seedlings of one year Old to be raised in a rati (60:40 :: Sal:Sal Associate)		
	g) SMC work:	::	Contour trench in staggered method.		
	h) Protection:	::	Barbed wire fencing.		
	i) Silvicultural Operation	::	As per existing working plan p	prescription	
	j) Maintenance.	::	As per existing working plan		
	k)Subsequent silvicultural operation proposed:	::	As per existing working plan		

Date:

Place: Purulia.

Divisional Porest Officer Kangsabati North Division Purulia

Chief Conservator of Forests South East Circle, W.B.

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<u>List of other indigenous/Local Species to be planted in CA Plantation over</u> 50 Ha. of Kangsabati (N) Division including Sal & its associates

Sl. No.	Species
1.	Tamarind
2.	Dry Sissoo
3.	Setisal
4.	Maul/ Mahua
5.	Kusum
6.	Jamun
7.	Palas
8.	Haritaki
9.	Baheda
10.	Piasal / Bija Sal
11.	Odal
12.	Karam
13.	Kumbhi
14.	Gamhar
15.	Chalta
16.	Dumur
17.	Dhaw
18.	Asan
19.	Arjun
20.	Jarul
21.	Neem
22.	Ber
23.	Simul
24.	Karanj
25.	Siris
26.	Mehogini
27.	Sida
28.	Bamboo
29.	Sal
30.	Latord

Chief Conservator of Forests

South-East Circle, West Bengal

Abstract of Compensatory Afforestation Cost & SMC Works over 50 ha

Sl. No.		Work Details	Cost
		Raising seedlings or Advance Nursery work	730789
		Sal & Associate Plantation Creation	9845699
		1st Year Maintenance	3824030
		2nd Year Maintenance	3626132
		3rd Year Maintenance	3391258
	Compensatory Afforestation (CA Cost)	4th Year Maintenance	1954686
1		5th Year Maintenance	1788395
		6th Year Maintenance	1565841
		7th Year Maintenance	1047262
		8th Year Maintenance	925346
		9th Year Maintenance	883859
		10th Year Maintenance	867326
		Earthen Dam	210620
		Total =	30661243
2	Associated SMC Works:	SMC work in CA Plantation site	2199050
		and Total: CA cost	32860293

(Rupees Three crore twenty eight lakh sixty thousand two hundred ninety three) only

Divisional Forest Officer Kangsabati North Division Purulia

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

SI.	Particular of Work	Unit	Туре	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/Verrnicompost 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	e in Rs		10135.00
	A. Cost of 2000 seedlings/QPM(Tender Rate with 10% C	ontractor'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 Ra	te in Rs.) per Ha		13286.78
	Add 10% Contactors profit for tender work (I	Make in a later adjustment of the control of the co		1329.00
	Grand Total for Tender works with GST (Rs	s.) =		14615.78
	Grand Total for 50 Ha			730789.00

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Chief Conservator of Forests South East Circle, W.B.

SCHEDULE OF SAL & ASSOCIATED LOCAL NATIVE SPECIES CREATION OF PLANTATION (COMPENSATORY AFFORESTATION) WITH SAL

1	(COMPENSATORY AFFORESTATION) WITH SAL Type of Plantation	Sal & Associate 1600
Ar	ea of CA Land: 50 Ha No. of seedling per Ha	2.5m x 2.5m
Sp	acing per ha	60cm. x 45cm. x 45cm
-	Size Particulars of Work	
	Labour Component	No. of Mandays
Su	and demarcation of the plantation area including GPS Survey by technical Person.	2
Bu	urning, removing debrices & cleaning of the Pith site and making inspection path and	32
Al	riginment of planting lines and staking the pit positions. rigging pits (Pit Size = .060 m x .45 m x .45 m)	40
Al ha	lignment and cutting of contour trench of size 0.45 in x 0.45 m x 5 mt. total 500 in long per total 1.25 in 3 in staggered nnumer.0.5 mt away from another line for easy movement.	20
To	ench kiln: to next trench line distance 10 mt.	2
5 M	laking of Inspection Path	40
	utting of Box trench of size 0.60m x 0.60m x 0.45 mt. total 1200 nos per ha	40
, Fi	igging Cattle proof Trench (50 rmt x 1.35 mt x 1.20 mt) Illing up of planting pits with dug up pulverized soil, Organic manure, Fungicides, Micro-	18
IN	utrients etc and planting	30
	falf moon trench (0.60 x 0.15 cm x 0.15 cm) Carriage of seedlings from Stacking site to planting pits	14
,, T	ransplanting of potted seedings including carriage from field nursery to planting site and	18
12 1	taking st time weeding cleaning & mulching with application of fertilizer & vacancy filling	18
12 1	and time weeding cleaning & mulching with application of lertilizer & vacancy filing	14
13 2	and time weeding cleaning & mulching without application of fertilizer & vacancy filling	8
14 3	th time weeding cleaning & mulching without application of fertilizer & vacancy filling	6
15 4	Making- fire lines 1.501, wide all ong the periphery and 1.20 mt, with inside pltn.	12
		60
17	Watch Ward from Sep to March	15
18 5	Sorting, Shifting, Weeding, cleaning and watering of seedlings in nursery (April-June)	4
19	Application of insecticide / Organic manure to the planted seedings	6
20	Vacancy filling with potted seedlings	5
21	Application organic manure as per dosses prescriber per pit Sowing of Arhar seeds as nurse crop on the ridges of dug up soil along the continous trenche	s 2
		6
23	Watering to seedlings during dry spell Total Mandays (Nos.)=	412
. 1	Cost of Labour Component @ Rs.294/MD for Departmental Work Rs.) =	121128
	ST.18% (SAC Code: 998519) for Tender Work (Rs.) =	21803
	f Labour Component for tender work with GST (Rs.) =	142931
	Material Cost (Rs.)	
B.		590
1	Signages (GST:18%)	22000
2	Barbed wire fencing (GST : 18%)	2625
3	Chemical Fertilizer @ 50 gm DAP/Plant (GST : 5%)	590
4	Insecticides / Hormones (GST : 18%)	2200
5	Organic manure (GST: 0%)	2950
6	Carriage of Seedlings and fertilizer by Truck / vehicle etc.(GST: 18%) upto Stacking site	1000
7	Cost of Arhar seeds (GST: 0%)	30365
Y.	Total Material Cost without Labour Cess (Rs.) =	
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 17901
	Add 10% Contactors profit (Rs	And the second s
	GRAND TOTAL for TENDER WORK with GST (I	196914

(Rupees Ninety eight lakh forty five thousand six hundred ninety nine) only

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Chief Conservator of Forests
South East Circle, W.B.

SCHEDULE OF SAL & ASSOCIATED LOCAL NATIVE SPECIES CREATION OF PLANTATION (COMPENSATORY AFFORESTATION) WITH SAL

	Type of Plantation	Sal & Associate
	Area of CA Land: 50 Ha No. of seedling per Ha	1600
	Spacing per ha	2.5m x 2.5m 60cm, x 45cm, x 45cm
	Pit Size	boom, x 45cm, x 45cm
L.	Particulars of Work Labour Component	No. of Mandays
1	Survey and demarcation of the plantation area including GPS Survey by technical Person.	2
2	Burning, removing debrices & cleaning of the Pitn site and making inspection path and Alignment of planting lines and staking the pit positions.	32
-	Digging pits (Pit Size = .060 m x .45 m x .45 m)	40
4	Alignment and cutting of contour trench of size 0.45in x 0.45m x 5 mt. total 500 m long per ha= 101. 25 in3 in staggered nnumer 0.5 mt away from another line for easy movement. Tench	20
5	kiln: to next trench line distance 10 mt. 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 rmt 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	Carriage of seedlings from Stacking site to planting pits	14
10	Transplanting of potted seedings including carriage from field nursery to planting site and staking	18
11	1st time weeding cleaning & mulching with application of fertilizer & vacancy filling	18
12	2nd time weeding cleaning & mulching with application of lertilizer & vacancy filing	14
13	3rd time weeding cleaning & mulching without application of fertilizer & vacancy filling	8
14	4th time weeding cleaning & mulching without application of fertilizer & vacancy filling	6
15	Making- fire lines 1.501, wide all ong the periphery and 1.20 mt, with inside pltn.	12
-	Watch Ward from Sep to March	60
16	Sorting, Shifting, Weeding, cleaning and watering of seedlings in nursery (April-June)	15
17	Application of insecticide / Organic manure to the planted seedings	4
18		6
19	Vacancy filling with potted seedlings Application organic manure as per dosses prescriber per pit	5
20	Sowing of Arhar seeds as nurse crop on the ridges of dug up soil along the continous trenches	2
21		6
22	Watering to seedlings during dry spell	382
X.	Total Mandays (Nos.)= Cost of Labour Component @ Rs.294/MD for Departmental Work Rs.) =	112308
dd	GST.18% (SAC Code: 998519) for Tender Work (Rs.) =	20215
ost	of Labour Component for tender work with GST (Rs.) =	132523
B.	Material Cost (Rs.)	
1	Signages (GST:18%)	590
2	Chemical Fertilizer @ 50 gm DAP/Plant (GST : 5%)	2625
3	Insecticides / Hormones (GST : 18%)	590
4	Organic manure (GST : 0%)	2200
6	Carriage of Seedlings and fertilizer by Truck / vehicle etc.(GST: 18%) upto Stacking site	2950
		1000
7	Cost of Arhar seeds (GST : 0%) Total Material Cost without Labour Cess (Rs.) =	8955
Y.		132523
X.		141478
Z		
	Contingencies 3 %	3976
	Labour Cess 1%	1325
	Total = Add 10% Contactors profit (Rs.)	146779 = 14678
	Add 10% Contactors profit (Rs.)	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.
	GRAND TOTAL for TENDER WORK with GST (Rs	.). 161457

(Rupees Eighty lakh seventy two thousand eight hundred fifty seven) only

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Chief Conservator of Forests
South East Circle, W.B.

P.	AFFORESTATION) OVER 50 HA.	
Type o	f plantation	SAL SB
Vo of se	eedlings per ha	1600
10 01 50	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
х.	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. Mate	erial Cost (Rs.)	
1	Transport of seedling/fartilizer/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
Υ.	Total Material Cost without Labour Cess (Rs.) =	6230.00
Χ.	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

(Rupees Thirty eight lakh twenty four thousand thirty only

Divisional Forest Officer Kangsabati North Division Purulia

38,24,030

Total for 50 Ha. Plantation

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

The second		44	- 1			
W	ne	ot	n	ani	a	tion
A 7	200	OF	200	SALKE!		LACE

		SAL SB
No of se	edlings per ha	1600
10 01 5	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. Mate	erial 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
Υ.	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	% Contactors profit (Rs.) =	6,593
The second secon	D TOTAL for TENDER WORK with GST (Rs.) =	72,523
	Total for 50 Ha. Plantation	36,26,132

(Rupees Thirty six lakh twenty six thousand one hundred thirty two) only

Divisional Forest Officer Kangsabati North Division Purulia

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SCHEDULE FOR 3RD YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

Type of plantation

		SAL SB
	Warran now ho	1600
NO OI SE	Spacing per ha	2.5m x 2.5m
Sl. No.	Particulars of Work	
Α.	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. Mat	rerial 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
Υ.	Total Material Cost without Labour Cess (Rs.) =	4000,00
Χ.	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 1	0% Contactors profit (Rs.) =	6,166
CRAN	ND TOTAL for TENDER WORK with GST (Rs.) =	67,825
GRA	Total for 50 Ha. Plantation	33,91,258

(Rupees Thirty three lakh ninety one thousand two hundred fifty eight) only

Divisional Forest Officer Kangsabati North Division Purulia

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SCHEDULE FOR 4TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

ype or	plantation	SAL SB
10 of 00	edlings per ha	1600
vo or sec	Spacing per ha	2.5m x 2.5m
L.	Particulars of Work	
١.	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 50 Ha. Plantation	1954686

(Rupees Nineteen lakh fifty four thousand six hundred eighty six) only

Divisional Forest Officer Kangsabati North Division

Purulia

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

		SAL SB
No of se	edlings per ha	1600
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
Α.	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 50 Ha. Plantation =	1788395

(Rupees Seventeen lakh eighty eight thousand three hundred ninety five) only

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

SCHEDULE FOR 6TH YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

	plantation	SAL SB
No of se	edlings per ha	1600
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
۱.	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 50 Ha. Plantation =	1565841

(Rupees Fifteen lakh sixty five thousand eight hundred forty one) only

Divisional Forest Officer Kangsabati North Division Purulia

COUNTERSIGNED

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

- J pc 01	plantation	SAL SB
No of se	edlings 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
х.	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 50 Ha. Plantation	1047262

(Rupees Ten lakh forty seven thousand two hundred sixty two) only

COUNTERSIGNED

Chief Conservator of Forests
South East Circle, W.B.

SCHEDULE FOR 8TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of	plantation	
		SAL SB
No of se	edlings per ha	1600
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
۸.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	20
	Total Mandays (Nos.).	30
х.	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 50 Ha. Plantation	925346

(Rupees Nine lakh twenty five thousand three hundred forty six) only

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

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

Type of	plantation	SAL SB
Vo of se	edlings per ha	1600
vo or se	Spacing per ha	2.5m x 2.5n
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 50 Ha. Plantation	883859

(Rupees Eight lakh eighty three thousand eight hundred fifty nine) only

COUNTERSIGNED

Chief Conservator of Forests
South East Circle, W.B.

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

	plantation	SAL SB
No of se	edlings 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 50 Ha. Plantation	867326

(Rupees Eight lakh sixty seven thousand three hundred twenty six) only

COUNTERSIGNED

Chief Conservator of Forests
South East Circle, W.B

Model Estimates of Cutting Contour Trench over 50 ha

SL No.	Item of Works	unit	Quantity	Mandays	Rate	Amount
Α	Labour Cost					
1	Contour Survey	На	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
		Su	b Total : Ma	indays cost i	per 1 ha. =	42630.00
			Total Ma	ndays cost p	er 50 ha =	2131500.00
SL No.	Item of Works	unit	Quantity	Mandays	Rate	Amount
Α	Material Cost			and the same of th		
1	Cost for display board	No	1		3500	3500
			Sub Tota	al : for Mate	rial Cost =	3500.00
	Grand	Total fo	or (Labour+	Material) ov	er 50 ha =	2135000.00
				Add Conting	ency 3% =	64050.00
			Gra	and Total ov	er 50 ha =	2199050.00

(Rupees Twenty one lakh ninety nine thousand fifty) only

Divisional Forest Officer Kangsabati North Division Purulia

COUNTERSIGNED

Model Estimate for Earthen Dam

		IVIC		mate for E		Dain				
SI No	Description of item	No	All dimen	sion are in m	Н	Quantity	Total Quantity	The same of	Rate	Total Amou
		1 110			1	Quartity	Quantity	Offic	Note	TOTAL ALTIOU
R&B P										
230, It	Clearing grass and removal of rubbish up	to a dist	ance of 30	m outside th	е					
no -	periphery of the area as per Technical S	pecification	ons Clause	201 for Rural	Roads					
2.03	of MORD. By Manual Means 1x.30x.15					0.045	0.045	hect	11868.00	534.06
Road	Earthwork in excavation from borrow pi	STATE OF THE PERSON NAMED IN	wned/ arra	nged by the						
&	core wall portion	1	25.75	1.1	0.41	11.61325				
Bridge	pitching for D/S	1	25.75	2,25	0.41	23.75438				
, P-	Spillway	1	3	3,5	0.41	4.305	39.67263	m3	99.90	3963.295238
Road	Providing and laying boulders apron on	river bed	for protect	ion against so	our					
&	D/S of Earthen Dam	1	25.75	2.25	1	57.9375				
Bridge	Core wall base	1	25.75	1.1	0.41	11.61325				
, P-	spillway	1	3	3.5	0.41	4.305	73.85575	m3	493	36410.88475
-10										
spillwa										
ad &										
Bridge										
, P-	Masonry work with rough dressed Stone	es of size	as directed	with cement						
326,It	mortar, true to line, level and shape, inc									
18.32(size as required, curing complete includi									
0) 1	complete.(b) With cement-sand mortar		AND THE RESERVE AND THE PARTY OF THE PARTY O							
	core well	25.8	0.5	2	2.1	54.075	54.075	m3	1781.00	96307.57
	Earthwork in excavation from borrow pi	Control of the Contro	Section 1 and 1 an	nged by the	1	34,075	54.075	inio	1702.00	30307.37.
Road	Department) and depositing in layers of				in					
&	embankment works and to fill up back o									
Bridge	an initial lead up to 50 m and initial lift u									
	i) Earthen Dam	1 1.311	i making D	arios ar top a	,					
p.	(7.5=(5+10)/2	1	25.75	7.5	1	102 125				
	ii)lift 1.5 m to 2.5 m	1	25.75	7.5	1	193.125				
	(3.5=(2+5)/2)	1	25.75	3.5	0.8	27.4				
3.02(1)	iii) Deduction for	-25.8	0.5	2	1	72.1 -25.75	239.475	2	00.00	22720 52770
				ne= 25% Of t		-25,75	239.475	mis	99.09	23729.57775
P-	(ii) Beyond 50 m & up to total lead o		volur	ne= 25% UT t	otai					
234,it-	Qua	ntity.								
3.02(i)							F0 05075			
	(11) 0 - 1000 0 - 1 - 111 1	£200		2500 5			59.86875	m3	37.50	2245.078125
	(iii) Beyond 200 m & up to total lead o		Volu	me = 35% of	lotai					
P-234,	Qua	ntity								
it-										
3.02(ii)										
							83,81625	m3	30.00	2514.4875
Road										
&	B. Compacting original ground supporting									
	Compacting original ground supporting									
	first layer of embankment, scarified to a				TO SECURE A COLUMN					
	OMC and then compacted by rolling so a				200000000000000000000000000000000000000					
3.17(b	given in Tables 300.1 and 300.2 for emb									
1	305.3.4 of Specifications for Road & Brid	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is	THE RESERVE AND ADDRESS OF THE PARTY OF THE	-	-	239,475	239.475	m3	24.10	5771.3475
Road	Turfing with Sods Furnishing and laying	of the live	sods of pe	rennial turf fo	orming					
&		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
							District on the low state of the lower			1769.92 210620.48

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

Scheme for Compensatory Afforestataion under Purulia Division, over 26.76 Ha Area.

Detailed Scheme of Compensatory Afforestation over 26.76 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- Ba No. 1535, Area- 15 Ha & M 35, Plot No. 56, Area- 11.76	louza- Kalikapur, JL No.
	Village	Bangidiri & Kalikapur.	
	Area to be Afforestated	26.76 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 Miscellaneo nos. seedlings per ha.	us species with 1600
4.	Schedule of Plantation Programme	The Compensatory Affor forest land would be sta Forest Officer as early proposal is formally appro	arted by the Divisional as possible after the
5.	Details of year-wise break up of	Advance work,	Rs. 3,55,554.0
	requirement of fund is as under wage	Creation -	Rs.30,67,579.0
	rate Rs. 294.00 which may be	1st Year Maint.	Rs.17,00,988.0
	increased as per existing labour rate.	2 nd Year Maint.	Rs.15,71,628.0
		3rd Year Maint. 4th to 10th Year Maint.	Rs.14,15,760.0 Rs.39,46,072.0
		SMC works in CA Site	Rs.30,14,395.0
		Total for 26.76 ha	Rs. 1,50,71,976.0
		Rupees One Crore Fifty Lak Thousand Nine Hundred S	
6.	Technical details	Technical details of compo	ensatory afforestation
	a) General Detail:	Miscellaneous seedlings 1	600/Ha
	b) Spacing:	2.5x2.5 mt.	
	c) Species:	Jam, Arjun, Sirish, Kusun Piasal, Karam, Karanj, Ch	
	d) Nursery technique:	Seedlings raised in 300 cc	
	e) Size	Pit size .60x.60+.60/2x.60	m3.
	f) Planting method:	All Miscellaneous seedlin be raised	
	g)SMC work:	Contour trench in staggere	ed method.
	h) Protection:	Barbed wire fencing.	
	i) Silvicultural Operation	As per existing working pl	lan prescription.
	j) Maintenance:	As per existing working pl	
	k) Subsequent silvicultural operation proposed:	As per existing working pl	lan prescription.

Date: 29/04/2023 Place: Purulia.

Divisional Forest Officer, Purulia Division.

Chief Conservator of Forests
South East Circle, W.B.

COUNTERSIGNED

List to be Planted in CA Plantation at Joypur Range over 26.76 ha at Bangidiri & Kalikapur Mouza

Sl. No.	Species
. 1	Tamarind
2	Dry Sissoo
3	Setisal
4	Maul / Mahua
5	Kusum
6	Jamun
7	Palas
8	Haritaki
9	Baheda
10	Piasal/ Bija Sal
11	Odal
12	Karam
13	Kumbhi
14	Gamhar
15	Chalta
16	Dumur
17	Dhaw
18	Asan
19	Arjun
20	Jarul
21	Neem
22	Ber
23	Simul
24	Karanj
25	Siris
26	Mehogini
27	Sida

38 29.

30.

Bambro Sal latore

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			
SI.	Particular of Work	Unit	Туре	Rate (In Rs.)
	Advance Component			
1	Cost of making dry and seived leaf Compost inclusive of all costs	m3	Material	3,000.00
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/Verrnicompost etc. (Purchase/Collection, Carrsige, Loading, Unloading, drying & seviving 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 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	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	e in Rs		10,135.00
	A. Cost of 2000 seedlings/QPM(Tender Rate with 10% Co	ontractor'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 Rat	e in Rs.) per Ha		13,286.78
	Grand Total for 26.76 Ha			3,55,554.00

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

Type of Plantation			N	IISCE	LLANEOU	S SPECIES	
	No. of seedlings per ha	1600					
	Spacing per ha				2.5m x 2.	5m	
	Pit Size				n x 45cm.		
Sl No.	Particulars of Work	SoR. Ref. Unit		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 H	1 Ha		2	588.0
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	3,528.0
3	Staking and alignment of plantation site, collection of stakes, pitching etc.	30	1 Ha	a	294	5	1,470.
4	Pit cutting: a) Miscellaneous species -60 x 45 x 45cm	31(a)	1 Ha	a	294	42	12,348.0
5	Soil moisture Conservation-Digging of box trench over a length of 500 mt of sixe 5 m \times 0.45m \times 0.45m.	32	1 Ha	a	294	36	10,584.0
6	Sorting and shifting of seedlings per each time	11(i)	1000 N	vos.	569	1760 Nos.	1,001.4
7	Weeding and cleaning of seedlings in Hycopots/root trainers per each time	12(i)	1000 N		569	1760 Nos.	
8	Watering of seedlings in Hycopots two times per day	13(i)	100001		285	1760 Nos.	1,001.4
9	Creation of inspection path by removing weeds, scraping and by providing proper drain alongkfie diagonal of the plantation site, of 3 mt wide			100 mtr		50 mtr	711.5
10	Pit filling and appliction of Farm yard Manure : i) Miscellaneous Species	33(i)	1 Ha		4838	1 Ha	4,838.0
11	$Transplanting \ of \ Hy copots \ seed lings \ into \ pits \ includling \ man \ carriage \ from \ the \ unloading \ point \ .$	36(i)	1000 Nos.		3557	1760 Nos.	6,260.3
12	Application of insecticides and other chemicals whenever necessary	41	1000 Nos.		569	1600 Nos.	910.4
13	Vacancy infilling of pits with new seedling wherever there mortality due abiotic and biotic factors	40	100 Nos.		427	160 Nos.	683.2
14	1st cleaning	38(a)	1	На	3984	1 Ha	3,984.0
15	1 st Mulching	39(a)	1000	Nos.	3984	1600 Nos.	6,374.4
16	2nd cleaning	38(b)	1 -	Ha	3415	1 Ha	3,415.0
17	3rd cleaning	38©	1	Ha	2846	1 Ha	2,846.0
18	Creation of fireline to protect plantation from Fire, by making 3ntt 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 m	tr	1138	200 mtr	2,276.0
19	Providing watch and ward in the form of man days to oversee the plantation and protect the plantation from damages aria lag out of biotic factors for the entire year	45	1 Ha		3415	1 Ha	3,415.0
	Sub Total (labour)						66,284.86
20	Material : a) Farm Yard Manure: 4m3	50 (a)(i)	1 Ha		4600	0.4 Ha	1,840.0
21	Material : c) Chemical Fertilizers-	50©	1 MT		28750	0.08 MT	2,300.0
_	Material : b) Insecticides, fungicides(1 ltr each/ha)	50(b)	1 Ha		690	1 Ha	690.00
-	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
-	Transportation of Hycopots seedling from nursery to Plantation site including loading & unloading: d) lead distance > 20km & upto 30km : 300CC Hycopots	34(d)	1000 N	os.	2118	1760 Nos.	3,727.68
	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 N	os.	368	1760 Nos.	647.68
26	Fencing : Vegetative fencing using bamboo posts at least of 6 ft height with 1 ft embedded underground and not more than 5 ft apart with splitted bamboo of atleast 5 rows and using	46(a)	10 rm	t	1098	70 rmt	7,686.0
27	SIGNAGE: Installation 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	49					200.00
	Sub Total (Materials)						18,931.36
A 1	Total (labour + materials)						85,216.22
B /	Add GST (18% on A)						15,338.92
C 1	Fotal (A + B)						1,00,555.14
D /	Add Cess (1% on C)			-			1,005.55
E /	Add Contingency (3% on C)			-			
	Add 10% Contractor profit for tender works on C				-		3,016.65
_	Grand Total (C + D + E+F)						10,055.51
	Grand Total for 26.76 ha						1,14,633.00

Rs. Thirty lakh sixty seven thousand five hundred seventy nine only

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

o of se	f plantation	MISCELLANEOU SPECIES
	eedlings per ha	1600
	Spacing per ha	2.5m x 2.5m
l. No.	Particulars of Work	
A.	Labour Component	
1	Vacancy infilling and transport of seedlings	6
2	1st weeding, cleaning, mulching, with application of fertilizer	14
3	2nd weeding, cleaning, mulching	12
4	3rd weeding, cleaning, mulching	6
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	30
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	4
	Total Mandays (Nos.).	134
X.	Cost of Labour Component @ Rs.312/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	41808.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).	7525.44
	Cost of labour Component for tender work with GST Ms.).	49333.44
. Mate	rial Cost (Rs.)	
1	Transport of seedling/fartilizer/water tanker (GST: 18%)	3540.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	2100.00
	Cost of Insecticide (GST: 18%)	590.00
3	Total Material Cost without Labour Cess (Rs.) =	6230.00
3 Y.	Total Material Cost Willout Eacour Coss (RS.)	
	Cost of Labour Component for tender work with GST (Rs.) =	49333.44
Y.	· · ·	49333.44 55563.44
Y. X.	Cost of Labour Component for tender work with GST (Rs.) =	
Y. X. Z.	Cost of Labour Component for tender work with GST (Rs.) = Total Cost (X + Y) =	55563.44
Y. X. Z. 4	Cost of Labour Component for tender work with GST (Rs.) = Total Cost (X + Y) = Contingency 3% Labour Cess 1% Total =	55563.44 1666.90 555.63 57,786
Y. X. Z. 4 5	Cost of Labour Component for tender work with GST (Rs.) = Total Cost (X + Y) = Contingency 3% Labour Cess 1%	55563.44 1666.90 555.63

COUNTERSIGNED

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

Type of plantation

		MISCELLANEOUS SPECIES
No of se	eedlings per ha	1600
	Spacing per ha	2.5m x 2.5m
Sl. No.	Particulars of Work	
Α.	Labour Component	
1	Vacancy infilling and transport of seedlings	6
2	1st weeding, cleaning, mulching, with application of fertilizer	14
3	2nd weeding, cleaning, mulching	10
5	Cutting of Firelines (3m wide)	12
6	Watch & Ward	30
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	4
	Total Mandays (Nos.).	117
X.	Cost of Labour Component @ Rs.331/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	38727.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).	6970.86
	Cost of labour Component for tender work with GST Ms.).	45697.86
B. Mate	erial 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.) =	45697.86
Z.	Total Cost $(X + Y) =$	51337.86
4	Contingency 3%	1540.14
5	Labour Cess 1%	513.38
	Total =	53,391
	% Contactors profit for tender work (Rs.) =	5,339
GRAN	D TOTAL for TENDER WORK with GST (Rs.) =	58,731
	Total for 26.76 Ha. Plantation	15,71,628

COUNTERSIGNED

Chief Conservator of Forests
South East Circle, W.B.

SCHEDULE FOR 3RD YEAR MAINTENANCE OF PLANTATION (COMPENSATORY AFFORESTATION)

m			1				
IV	ne	ot	n	12	n	ta	tion
- 5	-		P.	•	-		CAUM

		MISCELLANEOUS SPECIES
No of se	eedlings per ha	1600
	Spacing per ha	2.5m x 2.5m
SI. No.	Particulars of Work	
A.	Labour Component	
1	Vacancy infilling and transport of seedlings	4
2	1st weeding, cleaning, mulching, with application of fertilizer	12
3	2nd weeding, cleaning, mulching	10
4	Cutting of Firelines (3m wide)	12
5	Watch & Ward	30
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	3
	Total Mandays (Nos.).	102
X.	Cost of Labour Component @ Rs.351/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	35802.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).	6444.36
	Cost of labour Component for tender work with GST Ms.).	42246.36
B. Mate	rial Cost (Rs.)	12210.00
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.) =	42246.36
Z.	Total Cost $(X + Y) =$	46246.36
4	Contingency 3%	1387.39
5	Labour Cess 1%	462.46
	Total =	48,096
Add 109	% Contactors profit for tender work (Rs.) =	4,810
GRANI	O TOTAL for TENDER WORK with GST (Rs.) =	52,906
	Total for 26.76 Ha. Plantation	14,15,760

COUNTERSIGNED

Chief Conservator of Forests South East Circle, W.B.

	SCHEDULE FOR 4TH YEAR MAINTENANCE OF PLANTATION (COMPEN AFFORESTATION)	SATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings per ha	1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning, mulching, without application of fertilizer	10.00
2	2nd weeding, cleaning	8.00
3	Watch & Ward	20.00
4	Repairing of CPT, Contour Trench and Box Trench & fencing	18.00
5	Cutting of Firelines (3m wide)	10.00
	Total Mandays (Nos.).	66.00
X.	Cost of Labour Component @ Rs.372/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	24,552.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	4,419.36
	Cost of labour Component for tender work with GST Ms.).	28,971.36
1	Contingency 3%	869.14
2	Labour Cess 1%	289.71
GRAN	D TOTAL for TENDER WORK with GST (Rs.)=	30,130.21
	Total for 26.76 Ha. Plantation	8,06,284.54
	Orsay,	8,06,285.00

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	SCHEDULE FOR 5TH YEAR MAINTENANCE OF PLANTATION (COMPEN AFFORESTATION)	SATORY
Type of	f plantation	
		MISCELLANEOUS SPECIES
No of se	edlings 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
4	Repairing of CPT, Contour Trench and Box Trench & fencing	18.00
5	Cutting of Firelines (3m wide)	8.00
	Total Mandays (Nos.).	60.00
x.	Cost of Labour Component @ Rs.394/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	23,640.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	4,255.20
	Cost of labour Component for tender work with GST Ms.).	27,895.20
1	Contingency 3%	836.86
2	Labour Cess 1%	278.95
GRANI	D TOTAL for TENDER WORK with GST (Rs.)=	29,011.01
	Total for 26.76 Ha. Plantation	7,76,334.57
	Orsay,	7,76,335.00

COUNTERSIGNED

	SCHEDULE FOR 6TH YEAR MAINTENANCE OF PLANTATION (COMPENAFFORESTATION)	SATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings per ha	1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
Α.	Labour Component	
1	1st weeding, cleaning	8.00
2	2nd weeding, cleaning	6.00
3	Watch & Ward	20.00
4	Repairing of CPT, Contour Trench and Box Trench & fencing	15.00
	Total Mandays (Nos.).	49.00
X.	Cost of Labour Component @ Rs.418/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	20,482.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	3,686.76
	Cost of labour Component for tender work with GST Ms.).	24,168.76
1	Contingency 3%	725.06
2	Labour Cess 1%	241.69
GRANI	O TOTAL for TENDER WORK with GST (Rs.)=	25,135.51
	Total for 26.76 Ha. Plantation	6,72,626.26
	Orsay,	6,72,626.00

COUNTERSIGNED

sc	CHEDULE FOR 7TH YEAR MAINTENANCE OF PLANTATION (CO AFFORESTATION)	OMPENSATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings per ha	1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
Α.	Labour Component	
1	1st weeding, cleaning	6.00
2	2nd weeding, cleaning	5.00
3	Watch & Ward	20.00
	Total Mandays (Nos.).	31.00
X.	Cost of Labour Component @ Rs.443/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	13,733.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	2,471.94
	Cost of labour Component for tender work with GST Ms.).	16,204.94
1	Contingency 3%	486.15
2	Labour Cess 1%	162.05
GRANI	O TOTAL for TENDER WORK with GST (Rs.)=	16,853.14
	Total for 26.76 Ha. Plantation	4,50,989.96
	Orsay,	4,50,990.00

Chief Conservator of Forests
M South East Circle, W.B.

S	CHEDULE FOR 8TH YEAR MAINTENANCE OF PLANTATIONS (COMP AFFORESTATION)	PENSATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings per ha	1,600.00
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
Α.	Labour Component	
1	1st weeding, cleaning	6.00
2	2nd weeding, cleaning	4.00
3	Watch & Ward	18.00
	Total Mandays (Nos.).	28.00
X.	Cost of Labour Component @ Rs.470/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	13,160.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	2,368.80
	Cost of labour Component for tender work with GST Ms.).	15,528.80
1	Contingency 3%	465.86
2	Labour Cess 1%	155.29
GRANI	O TOTAL for TENDER WORK with GST (Rs.)=	16,149.95
	Total for 26.76 Ha. Plantation	4,32,172.72
	Orsay,	4,32,173.00

Chief Conservator of Forests
M South East Circle, W.B.

S	CHEDULE FOR 9TH YEAR MAINTENANCE OF PLANTATION (COMP AFFORESTATION)	ENSATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings 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	16.00
	Total Mandays (Nos.).	25.00
х.	Cost of Labour Component @ Rs.498/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	12,450.00
	Add GST.18% (sec Code.: 991579) for Tender Work over X	2,241.00
	Cost of labour Component for tender work with GST Ms.).	14,691.00
1	Contingency 3%	440.73
2	Labour Cess 1%	146.91
GRANI	TOTAL for TENDER WORK with GST (Rs.)=	15,278.64
	Total for 26.76 Ha. Plantation	4,08,856.41
	Orsay,	4,08,856.00

Chief Conservator of Forests South East Circle, W.B.

so	CHEDULE FOR 10TH YEAR MAINTENANCE OF PLANTATION (AFFORESTATION)	COMPENSATORY
Type of	plantation	
		MISCELLANEOUS SPECIES
No of se	edlings 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
GRANI	O TOTAL for TENDER WORK with GST (Rs.)=	14,903.12
	Total for 26.76 Ha. Plantation	3,98,807.41
	Orsay,	3,98,807.00

Chief Conservator of Forests
South East Circle, W.B.

Abstract of Compensatory Afforestation Cost & SMC Works

Sl. No.		Work Details	Cost
		Raising seedlings or Nursery during 2023-24	355554.00
		Miscellaneous Species Plantation Creation during 2024-25	3067579.00
		1st Year Maintenance during 2025-26	1700988.00
•		2nd Year Maintenance during 2026-27	1571628.00
		3rd Year Maintenance during 2027-28	1415760.00
1	Compensatory Afforestation (CA Cost)	4th Year Maintenance during 2028-29	806285.00
		5th Year Maintenance during 2029-30	776335.00
		6th Year Maintenance during 2030-31	672626.00
		7th Year Maintenance during 2031-32	450990.00
		8th Year Maintenance during 2032-33	432173.00
		9th Year Maintenance during 2033-34	408856.00
		10th Year Maintenance during 2034-35	398807.00
		Total =	12057581.00
2	Associated SMC Works: 25% of CA amount	SMC work in CA Plantation site	3014395.00
		and Total: CA cost	1,50,71,976.00

Divisional Forest Officer, Purulia Division.

COUNTERSIGNED

Undertaking for payment of Amount for Compensatory Afforestation in lieu of diversion of 38.38 Ha of Forest Land for Tilaboni Underground Project in Stage-I Forest Clearance

I, on behalf of Bankola Area, Eastern Coalfields Limited, P.O. Ukhra, Dist. - Paschim Bardhaman, West Bengal, do hereby undertake for the payment of amount for Compensatory Afforestation for the grant of in-principal approval for Diversion of 38.38 Ha forest land for Tilaboni Underground Project as per demand note from the State Forest Department, Govt. of West Bengal.

Area Manager (PCD)
Bankola Area

GeGeneral Managerea, E.C.L. Bankola Area

Cost Benefit Analysis of Tilaboni UG - Diversion of 38.38 Ha as per MOEF&CC Circular Dated 01-08-2017

Table B: Estimation of

Parameters		
rarameters	Remarks	Value in INR
Ecosystem services loss due to proposed forest diversion	Economic value of loss of ecosystem service should be the net present value of the forest being diverted as prescribed by the MoEF&CC. Note in case of National parks the NPV shall be 10 times the normal NPV and incase of Wildlife sanctuaries the NPV shall be five times the normal NPV as prescribed by the Ministry or any other competent authority	 i) Since the forest is typically Tropical dry deciduous Forest it falls under the category–Eco Class III ii) Average forest Density is 0.7 and is thus classified as dense forest iii) As such Rate of NPV per Ha = ₹ 13,57,110.00 Thus, NPV for 38.38 Ha of forest land = 13,57,110.00X38.38 = ₹ 5,20,85,881.80. Ref: Guidelines for Calculation of NPV vide MoEF&CC, Gol, Fno. 5-3/2011-FC (Vol-I) dated 06.01.2022
Loss of animal husbandry or fodder	To be quantified and expressed in Monetary terms or 10% NPV whichever is maximum	There is no significant animal husbandry or fodder in the area. As such the maximum value can be quantified as 10% NPV (10% of ₹ 5,20,85,881.80) = ₹ 52,08,588.18 (Refer SI no.1 for value of NPV)
Cost of human Settlement	To be quantified and expressed in in Monetary terms as per approved R&R Plan	Total Cost of Human settlement is ₹ 10,01,00,000.00 as per R&R plan. Actual cost may be calculated at the time of execution and as per requirement from your end.
administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways) on Forest land which would require forest	To be quantified and expressed in in Monetary terms on actual cost basis at the time of diversion	There will be no loss of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways) on Forest land which would require forest land if these facilities. As such the Monetary Value on actual cost basis at the time of diversion is NIL.
	Ecosystem services loss due to proposed forest diversion Loss of animal husbandry or fodder Cost of human Settlement Loss of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways) on Forest land which would	Ecosystem services loss due to proposed forest diversion Economic value of loss of ecosystem service should be the net present value of the forest being diverted as prescribed by the MoEF&CC. Note: in case of National parks the NPV shall be 10 times the normal NPV and incase of Wildlife sanctuaries the NPV shall be five times the normal NPV as prescribed by the Ministry or any other competent authority Loss of animal husbandry or fodder Cost of human Settlement Cost of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways) on Forest land which would require forest land if these

W. walk



महाप्रयोगक / General Manager पर्यावरण विभाग / ईतीएल मुख्यालय Environment Depit./ECL. HQ.

Parameters	Remarks	Value in INR
diverted due to		
the project. Possession value of the forest land	30% of the environmental costs (NPV) due to NPV or loss of forest or circle rate of adjoining areas of the district should be added as cost component of possession value of the forest land; whichever is maximum.	 i) 30% of NPV = 30 % of ₹ 5,20,85,881.80 = ₹ 1,56,25,764.54 (Refer SI no.1 for value of NPV) ii) Circle Rate of Govt. land as per approved PR = Rs. 2,22,30,000/Ha. Thus, the rate of 38.38 Ha forest land = Rs. 2,22,30,000/Ha. x 38.38 ha = ₹. 85,31,87,400. Maximum of (i) and (ii) is ₹ 85,31,87,400. Reference Annexure – I.
Cost of suffering to oustees	The social cost of rehabilitation of the oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what oustees should have earned in two years had he no been shifted.	Majhi Bustee, which is to be rehabilitated for the project, is situated at a distance of 600 m from the forest and may be depending on the forest for firewood, leaves, etc. Assuming the entire population is dependent on the forest for these purposes, the cost of suffering can be calculated as under: 1. Cost of firewood The maximum cost of firewood as declared by the Wes Bengal Govt. is ₹ 900.00 per m³ (Source http://www.westbengalforest.gov.in/notice/n08-02-2021-01.pdf). Taking the specific gravity of dry wood to be 0.60 weight of 1 m³ of dry firewood would be 600 kg. Thus

And weld.

CENERAL MANAGER
Eastern Coalfields Ltd.
Eastern Area
Bankola Area
Bankola Area
Bankola Area
Bankola Area

Mema 27-4,2023

महाप्रबंधक/ General Manager पर्यावरण विभाग / ईरीएल मुख्यालय Environment Deptl./ECL. AQ.

Parameters	Remarks	Value in INR
		Taking the highest value of the two i.e., ₹ 17.00 per kg, the total cost of Mahua Flowers = ₹ 17.00 x 1,38,16,800 e ₹ 23,48,85,600.00 b) Mahua Seeds Annual Yield of Mahua Seeds = 20-40 kg/tree (Source: www.ijddr.in). Taking the yield to be average as 30 kg/tree, total yield of Mahua Seeds from the forest land for 2 years = 30.00 kg x 1000 trees/Ha x 34.542 Ha x 2 = 20.72,520 kg. Cost of Mahua Seeds per kg as per MSP of non-forest produce by Govt. of India = ₹ 25.00 (Source: https://pib.gov.in/Pressreleaseshare.aspx?PRID=15575 28) Thus, the total cost of Mahua Seeds = ₹ 25.00 x 20,72,520 = ₹ 5,18,13,000.00 Total cost of Mahua = A+B = ₹ 28,66,98,600.00 3. Cost of Sal seeds Sal trees constitute 10% of the forest i.e. 10% of 38.38 Ha = 3.838 Ha. Seed production from 3.838 Ha sal plantation @ 500 kg / Ha would be 1919 kg / year. Cost of sal seed produce = 1919 kg x ₹ 22.00 per kg (Source: http://www.westbengalforest.gov.in/notice/n08-02-2021-01.pdf) = ₹ 42218.00 per year. Produce over 2 years = ₹ 84436.00 Total cost of social rehabilitation = 1.5 x (1+2+3) = ₹ 43,55,61,954.00 Habitat Fragmentation Cost = 50% of NPV=
Habitat Fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cot due to fragmentation has been pegged at 50% of NPV applicable as thumb rule	2,60,42,940.90
Compensator y afforestation and soil and moisture conservation cost	The actual cost of Compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted rate	

Very on you

CENERAL MANAGER
CENERAL MANAGER
Castern Coalfields Ltd.
Eastern Coalfields Ltd.
Bankola Area
Bankola Area
P.O.-Ukhra, Dist.-Paschim Bardhaman

C1/1000 2013

महाप्रवंधक/ General Manager पर्यावरण विभाग / ईसीएल सुरुवालय Environment Deptt./ECL. तQ.

1		es for estimating benefits of forest diversion in CBA Value in INR				
1	Table-C: Existing quideline Parameters	Remarks				
10.	locrease in productivity	To be quantified and expressed in Monetary term	The increase in productivity will be the increase in electricity generated from coal extracted from Tilaboni UG which amounts to ₹ 30,85,088.6789165 lacs. For calculations, refer Annexure – II.			
2.	Benefits to the economy due to specific project	The incremental economic benefit in monetary term due to the activities attributed to the specific project	₹ 94185.3 lacs which is the cost of the project that is infused directly into the economy to provide benefits by virtue of coal production and consequent generation of power, adding to energy security of the nation.			
	No. of population benefited due to specific project	As per Detailed project report	The no. of population benefited due to employment in the project year-wise is tabulated in Annexure – III. However, 880 employment will also be generated as per CIL R&R Policy where there is provision of 1 employment/2 acres of land.			
	Economic benefits due to direct and indirect employment due to the		The economic benefits due to the generation of employment in the project in terms of wages are tabulated in Annexure – IV.			
	project Economic benefit due to Compensatory afforestation	Benefits from such compensatory afforestation acquiring over next 50 years and discounted to present value should be included as benefits of compensatory afforestation. For benefits of CA guideline of the Ministry for NPV estimation may be consulted	Calculation of NPV vide MoEF&CC, Gol, Fno. 5-3/2011-FC (Vol-I) dated 06.01.2022 and considering the fact the CA will result in Eco-class III forest the minimum economic benefit acquiring out of Compensatory afforestation is NPV. We may consider minimum value of Eco class III forest land (density 0.7) is			

Estimated Cost = ₹ 1,51,94,09,240.88 = ₹ 15,194.0924088 lacs

<u>Estimated Benefit</u> = ₹ 31,80,315.6965525 lacs

Cost to Benefit Ratio = 0.0048

The say

Eastern Coalfields Ltd.
Bankola Area
P.O.-Ukhra, Dist.-Paschim Bardhaman

C/14-102B

महाप्रबंधक/ General Manager पर्योवरण विभाग / ईसीएल मुख्यालय Environment Deptt./ECL. HQ.

Government of West Bengal

Department of Land and Land Reforms and Refugee, Relief and Rehabilitation

LR(A-III) Branch, Nabanna, Howrah

No. 1827 - GE(M)/2L-120/18

1647

Dated: 23.05.2018

From: The OSD & E.O. Assistant Secretary to the Govt. of West Bengal.

To: The District Magistrate & Collector, Paschim Bardhaman, Vivekananda Sarani,

P.O. R.K.Mission, Kanyapur, Asansol - 05.

Subject:

Transfer of 1.13 acres of Govt. vested land at Mouza—Sarpi, J. L. No. 036 under P.S. Faridpur in the District - Paschim Bardhaman in favour of ECL, Bankola Area, Ministry of Coal, Govt. of India for coal mining.

The undersigned is directed to refer to his Memo. No. 399/DLLRO-PAB/LM/18 dated 13.03.2018 on the above-noted subject and to state that the Governor is hereby pleased to accord sanction to the transfer of 1.13 acres of Govt. land, as detailed in the land schedule below, to the Ministry of Coal, Govt. of India with effect from the date of delivery of possession of the said land on a transfer value of Rs.73,74,311/-(Rupees seventy-three lakh seventy-four thousand three hundred eleven) only for coal mining.

Land Schedule

District - Paschim Bardhaman, P.S. Faridpur, Mouza - Sarpi, JL No. 036

SI. No.	Plot No.	Area (acre)
1	869	0.89
2	908	0.05
3	1046	0.19

Total = 1.13 acres

- 2. The amount to be realized from the Govt. of India is to be credited to the head, "0029-Land Revenue-00-101- Land Revenue/Tax-002 Collection from Estate leased to farmers- 30-Lease Rent/Salami" in the budget of the current financial year. [0029-00-101-002-30].
- 3. If it is subsequently detected that the land in question is involved in a court case in any Hon'ble court of Law, then all concerned shall abide by the order as may be passed by that Hon'ble Court.
- 4. A deed of transfer as per draft "Indenture" enclosed herewith have to be executed by the District Land and Land reforms Officer, Paschim Bardhaman for and on behalf of the Governor of West Bengal and the authorized representative of the President of India along with two witnesses.
- 5. It is, accordingly, requested that on payment of Rs.73,74,311/-(Rupees seventy-three lakh seventy-four thousand three hundred eleven) only as transfer value, by the Government of India, the possession of the land may be handed over to the authorised representative of the Ministry of Coal, Govt. of India and thereafter, the draft deed of transfer as per "Indenture" enclosed may be engrossed on durable papers in quadruplicate, signed by the District Land & Land Reforms Officer, Paschim Bardhaman under his office seal and sent to the Government in the Land & Land Reforms and Refugee, Relief & Rehabilitation Department alongwith two witnesses for acceptance and further action. The amount payable by the Ministry of Coal, Govt. of India, is to be realized from them within 45(forty five) days from the date of this order.

2/18/18

Page 1 of 2

महाप्रबंधक/ General Manager पर्यावरण विभाग / ईसीएल मुख्यालय Environment Depti./ECL मदर

6. The space of the first page of the documents for the purpose of inserting date may be left blank and no date should be given while signing the documents,

Sd/-

OSD and E.O. Assistant Secretary to the Govt. of West Bengal

No. 1827/1(5) - GE(M)/2L-120/18

Dated: 23.05.2018

Copy forwarded for information and necessary action to the:

- 1. Secretary to the Ministry of Coal, Govt. of India, New Delhi.
- 2. Director of Land Records and Survey, West Bengal, 35, Gopalnagar Road, Alipore, Kolkata-700 027.
- 3. A.D.M. & D.L. & L.R.O., Paschim Bardhaman, P.O. Rajbati, Dist. Burdwan.
- A. General Manager, Eastern Coalfield Limited, Bankola Area, P.O. Ukhra, Dist. Burdwan, PIN - 713 363.
 - 5. Guard file.

OSD & E.O. Assistant Secretary to the Govt. of West Bengal.

महाप्रबंधक/ General Manager पर्यावरण विभाग / ईसीएल मुख्यालय Environment Deptt./ECL. HQ.

Annexure-II

Table for	calculation	ofinamana	in productivity
I MANAGE I CHE	Care manton	OI INCIDASE	in productivity

Grade	Production (AIT)	Avg annual coal consumption at 85% PLF for sub-entical technology as per CEC (Tonnes MW annum)	Power generated in MW	Electricity in KVVh	Selling Price of Electricity @ Rs 5/KWh (INR)
64	0.138	3118 25	44 25559	387678986 6	1938394933
G-4	0.198			556235067.7	2781175339
64	0.258			724791148.9	3623955744
G-5	0.73	the state of the s		1971725892	9858629461
G-6	0.99	3463.5		2503941100	12519705500
G-4	0.99			2781175339	13905876694
64	0.99			2781175339	13905876694
G-4	0.99			2781175339	13905876694
G-4	0.99			2781175339	13905876694
6-4	0.99			781175339	13905876694
G-4	0.99			781175339	13905876694
G-4	0.99	Market Street, Street, or St. of Street, Street, Street, St. of Street, Street, St. of St. of Street, St. of St. of Street, St. of S		781175339	13905876694
G-4	0.99		317 4858 2		13905876694
G-2	0.99	described to the second	317.4858 2	1	13905876694
G-4	0.99		317 4858 2		13905876694
G-4	0.99	Name and Address of the Owner, where the Owner, which is the Owner, which	17 4858, 2		13905876694
G-4	0.99	and the same of th	17.4858 2	U - Y	13905876694
G-4	0.97		11 07 19 27		13624949892
64	0.87		79/0026 24		12220315882
G-4	0.87		79 0026 24		12220315882
G-4	0.87		79.0026 24		12220315882
G-4	0.87	3118 25 2	79 0026 24	44063176	12220315882
G-4	0.57	3118 25 21	9 0026 24	44063176	12220315882
G-4	0.87	3118 25 27			12220315882
G-4	0.87	3118 25 27			12220315882
G-5	0.87	3243.25 26	8 2494 234	49865104	11749325522
	Total	70	43.5816170	01773578	308508867891.65

Source:

- 1. Grade wise production from Project Report of Tilaboni UGP
- 2. Norms for Coal consumption in Thermal Power Plants (Ref. No.219/Go/BO/TPI/CEA/2019/322)

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महाप्रबंधक/ General Manager पर्वावरण विभाग / ईसीएल मुख्यालय Environment Deptt./ECL. HQ. Signature of AMPCD

AMPCD Bouncold Area

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Annexure-III

Annexure-III Year	1-3	4	5	6	7-17	18	19-20	21-25
Manpower	904	734	742	742	799	799	787	787

Source: Project Report of Tilaboni UGP

महाप्रबंधक/ General Manager पर्यावरण विभाग / ईसीएल मुख्यालय Environment Deptt./ECL. HQ.

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Annexure-IV

VIIII CYGIC-	I V							
Year	1-3	4	5	6	7-17	18	19-20	21-25
Manpower	904	734	742	742	799	799	787	787
Wages(in lac)	7134.00	6163.90	6224.92	6224.92	6716.36	6716.35	6609.27	6609.27

21/01/01

uprogram / General Manager gridge Ream / galler general Environment Depti./ECL no.

125/9/15

महाप्रबंधक/ General Manager पर्यावरण विभाग / ईसीएल मुख्यालय Environment Deptt./ECL. HQ. Signature of AMPCD:
Bankola Area

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