

## PART - IV

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of the Forest Department)

17. Detailed opinion and specific recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks.

(While giving opinion, the adverse comments made by the concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).

*This is a Proposal for diversion of 38.38 hectares of Forest Land under Durgapur Forest Division in favour of the Eastern Coal Field Ltd.(ECL) for Tilaboni Underground Coal Mining Project.*

*The proposal has been recommended by the Divisional Forest Officer, Durgapur Forest Division and the Chief Conservator of Forests, South-East Circle West Bengal. Environmental Clearance (EC) has already been granted in 2016 for ECL coal mines in cluster, before application for FC now on the Parivesh portal.*

*Hence, the proposal for diversion of 38.38 hectares in favour of Eastern Coal Field Ltd. is recommended for 25 years, subject to the following*

A) *The ECL is proposing Underground (UG) mining using Bord and Pillar Mining with Continuous Miner method for Tilaboni UG Mine. The Subsidence Prediction Report submitted predicts tensile strain of 91.77 mm/m at the end of 25 years of mining with peak subsidence at end of 25 years of mining at 5.717 m. It concludes that the forest cover will be damaged at the end of 15 years of mining. The Report has suggested that:*

- i) Barrier pillars to be left in all panels that are passing through forest area.*
- ii) No depillaring operations should be carried out in panels and sub-panels lying within reserve forest area.*

*The General Manager on behalf of ECL has undertaken to follow said recommendations. These must be enforced.*

B) *NPV will have to be paid at normal rates since surface strain predicted is more than 20mm/m in terms of MoEF & CC File no. 5-3/2011-FC(Vol-I) dt. 6.01.2022 para 4(xiii)(v).*

C) *There are 13085 enumerated trees of about 24 tree species belonging to a natural forest of tropical moist deciduous forest type on the area proposed for diversion. In view of the Subsidence Prediction Report, and as per clause 2.6(i)(c) of MoEF & CC File no. 5-2/2017-FC dt. 28/03/2019, cost of plantation (including ten years' maintenance) of ten times the specified number of 13085 trees on diverted forest land may be levied from the User Agency by way of compensatory afforestation (CA). Otherwise Govt may approve CA over double the area of degraded forest land. UG mining normally is exempt from CA, but given the potential loss of the only natural Sal forest in the area, CA is recommended.*

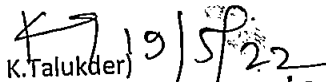
D) *Compliance with FRA is critical to the project since displacement of 63 families (including 48 ST families and 9 SC families) is being contemplated in Majhi basti.*

E) *The project report envisages continuous Miner with caving. The User Agency will need to fence the area in case of crack formation or subsidence as mentioned in the Mining Plan (Project Report for Tilaboni UG Mine). Plantation must be undertaken after closure of mine. In case water accumulates in the mined out area and plantation cannot be undertaken there, the fence will ensure that accidental drowning does not happen.*

F) *ECL is already formulating Wild life Conservation Plan to be approved by the CWLW for coal mines elsewhere. Said approved Plan will need implementation in this project area also due to loss of natural Sal forest / access to natural Sal forest in the area.*

Date: 19/5/2022

Place: Aranya Bhawan, Kolkata

  
(K. Talukder)

Adl. Principal Chief Conservator of Forests &  
Nodal Officer, Forest Conservation Act, 1980

PART - V

(To be filled in by the Secretary In-Charge of Forest Department or by any other authorized officer of the State Government not below the rank of an Under Secretary)

18. Recommendation of the State Government:

(Adverse comments made by any officer or authority in Part-B or Part-C or Part-D above should be specifically commented upon)

Date:  
Place:

Signature  
Name & Designation  
(Official Seal)

**Estimate For Advance Work , Creation, Ten Year maintenance of Sal & Its Associates Plantation using 2 years old seedlings for Compensatory Afforestation against proposal for Tilaboni Underground Project, Bankola Area, Eastern Coalfields Limited**

<b>Location</b>
<b>Degraded Forest land (DFL) within South East Circle Jurisdiction (Durgapur, Burdwan &amp; Birbhum Division) as per availability</b>

<b>Unit - 1Ha (1600 Plants/ Ha)</b>
<b>Spacing = 2.5 m X 2.5 m</b>

**Species:-** Sal & its associates like Mohua, Bahera, Neem, Kusum, Piyal, Asan, Sirish, Mango, Tamarind, Jam, Karanj, Arjun, Chhatim etc.

**Advance Work**

Sl. No.	A. Nursery	M.D	Rate	Amount
1	Cleaning levelling & dressing site	1.00		
2	Preparation of mother bed & pricking out bed	1.00		
3	Sowing seed in mother bed	1.00		
4	Filling up polythene tube with sand & Cowdung manure 1:1	10.00		
5	Making nursery shed with bamboo & thatch etc. complete	1.00		
6	Making fencing around the nursery	2.00		
7	Making nursery hut with bamboo & thatch	2.00		
8	Watering the seedlings for 3 months	8.00		
		26.00	271.00	<b>7046.00</b>
9	Price of nursery materials			
	a) Polypot (8"x 6")	2 kg	200	400.00
	b) Bamboo thatch etc.		L.S	200.00
	c) Insecticides		L.S	200.00
	d) Seeds		L.S	500.00
	e) Cowdung	4 m3	500.00	2000.00
	f) Sand	4 m3	300.00	1200.00
	g) Fencing materials			2000.00
				<b>6500.00</b>
	<b>B. Contingency</b>			
1	Fertilizer			<b>2000.00</b>
2	Hormone			<b>272.00</b>
	<b>C. Nursery maintenance (2nd year)</b>			
1	Weeding and cleaning	10		
2	Sorting and shifting	10		
3	watering of the seedlings	25		
4	Application of fertilizer & insecticides.	5		
		50	298.00	<b>14900.00</b>
5	Supply of materials (fertilizer, insecticides etc.)			<b>4000.00</b>
	<b>D. Soil Work</b>			
1	Survey demarcation & preparation of map	2		
2	Alignment staking of planting pit	2		
3	Digging planting pit of size 60 + 45/2 X 60 X 45 over 1600 Nos.	40		
4	Making inspection path	2		
		46	298.00	<b>13708.00</b>
	<b>Total</b>			<b>48426.00</b>

Creation Work				
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>CREATION WORKS (PLANTATION)</b>				
1	Hoeing surrounding the boundary line including sowing of Akashmoni & Babla Seed	10		
2	Cleaning the plantation area before planting	15		
3	Pricking of seedlings	4		
4	Dibblings of seeds	3		
5	Weeding and cleaning	6		
6	Sorting, shifting & watering	12		
7	Filling up planting pits including application of fertilizer	20		
8	Planting seedlings including carriage	20		
9	Vacancy filling including application of insecticides	4		
		94	328.00	30832.00
	<b>Total</b>			<b>30832.00</b>
<b>FENCING WORKS</b>				
10	Erection of barbed wire fencing 4 strands including cost of fencing materials and fixing all complete including RCC post			25000.00
	<b>Total</b>			<b>25000.00</b>
<b>TENDING &amp; OTHER WORKS</b>				
11	1st time weeding cleaning & mulching with fertilizer	20		
12	2nd time weeding cleaning & mulching	18		
13	3rd time weeding cleaning & mulching	16		
14	Watch & Ward	24		
15	Fire protection	8		
16	Fire line cutting	16		
17	Irrigation facility	15		
		117	328.00	38376.00
18	Making Signboard etc.			1844.00
	<b>Total</b>			<b>40220.00</b>
<b>Materials</b>				
19	Supply of fertilizer,Vermicompost,Hormone			6632.00
	<b>GRAND TOTAL</b>			<b>102684.00</b>

1st YEAR MAINT WORKS		Wage Rate - 308.00	361.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning & mulching with fertilizer	16		
3	2nd time weeding cleaning & mulching with fertilizer	14		
4	3rd time weeding cleaning & mulching with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	10		
7	Repair of fencing	8		
8	Watch & Ward	24		
9	Irrigation facility	10		
		100	361.00	36100.00
10	Fencing repair materials etc.			5000.00
<b>Materials</b>				
11	Supply of fertilizer,Vermicompose,Hormone, bamboos			7534.00
12	Price of seedlings including carriage	100 Nos.	40	4000.00
	<b>TOTAL</b>			<b>52634.00</b>



	2nd YEAR MAINT WORKS	Wage Rate - 354.00	397.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Infilling by taller seedlings	4		
2	1st time weeding cleaning & mulching with fertilizer	16		
3	2nd time weeding cleaning & mulching with fertilizer	14		
4	3rd time weeding cleaning & mulching with fertilizer	10		
5	Fire protection	4		
6	Fire line maintenance	10		
7	Repair of fencing	6		
8	Watch & Ward	24		
		88	397.00	34936.00
10	Fencing repair materials etc.			5000.00
<b>Materials</b>				
11	Supply of fertilizer,Vermicompose,Hormone			5148.00
12	Price of seedlings including carriage	50 Nos	60	3000.00
	<b>TOTAL</b>			<b>48084.00</b>

	3rd YEAR MAINT WORKS	Wage Rate - 407.00	437.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	1st time weeding cleaning & mulching with fertilizer	16		
2	2nd time weeding cleaning & mulching with fertilizer	14		
3	3rd time weeding cleaning & mulching	10		
4	Fire protection	4		
5	Fire line maintenance	10		
6	Repair of fencing	6		
7	Watch & Ward	24		
		84	437.00	36708.00
8	Fencing repair materials etc.			5000.00
<b>Materials</b>				
9	Supply of fertilizer,Vermicompose,Hormone			2772.00
	<b>TOTAL</b>			<b>44480.00</b>

	4th YEAR MAINT WORKS	Wage Rate - 468.00	481.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	1st time weeding cleaning & mulching	16		
2	2nd time weeding cleaning & mulching	14		
3	Fire protection	4		
4	Fire line maintenance	10		
5	Repair of fencing	6		
6	Watch & Ward	24		
		74	481.00	35594.00
7	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>40594.00</b>

	5th YEAR MAINT WORKS	Wage Rate - 538.00	529.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	1st time weeding cleaning & mulching with fertilizer	12		
2	2nd time weeding cleaning & mulching with fertilizer	10		
3	Fire protection	4		
4	Fire line maintenance	10		
5	Repair of fencing	6		
6	Watch & Ward	24		
		66	529.00	34914.00
7	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>39914.00</b>



6th YEAR MAINT WORKS		Wage Rate - 619.00	582.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Ist time weeding cleaning & mulching with fertilizer	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	582.00	34920.00
6	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>39920.00</b>

7th YEAR MAINT WORKS		Wage Rate - 712.00	640.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Ist time weeding cleaning & mulching with fertilizer	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	640.00	38400.00
6	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>43400.00</b>

8th YEAR MAINT WORKS		Wage Rate - 819.00	704.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Ist time weeding cleaning & mulching with fertilizer	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	704.00	42240.00
6	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>47240.00</b>

9th YEAR MAINT WORKS		Wage Rate - 942.00	774.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Ist time weeding cleaning & mulching with fertilizer	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	774.00	46440.00
6	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>51440.00</b>

10th YEAR MAINT WORKS		Wage Rate - 1083.00	851.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
<b>TENDING WORKS</b>				
1	Ist time weeding cleaning & mulching with fertilizer	16		
2	Fire protection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	851.00	51060.00
6	Fencing repair materials etc.			5000.00
	<b>TOTAL</b>			<b>56060.00</b>
	<b>Grand Total Per Ha</b>			<b>614876.00</b>
	<b>Grand Total for 76.8 Ha</b>			<b>47222476.80</b>
		<b>Or Say</b>		<b>47222477.00</b>

(Rupees Four Crore Seventy Two Lakh Twenty Two Thousand Four Hundred Seventy Seven Only)

Divisional Forest Officer  
Durgapur Division