



Government of West Bengal
Directorate of Forests
Office of Divisional Forest Officer, Burdwan Division
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No. **3414** / **8-12** ; Dated, **Burdwan, the 18/08/2022**

To : The Addl. Principal Chief Conservator of Forests & Chief Conservator of Forests, South-East Circle, West Bengal.

Sub: Proposal for diversion of 0.0262 ha. Of forest land in favour of Indian Oil Corporation Limited for re-route of Rajpur-Pondali Section of Haldia-Durgapur Underground LPG Pipeline Project construction under Burdwan Forest Division, West Bengal (Proposal no. FP/WB/Pipeline/150496/2021).

Ref: 1. The Addl. Principal Chief Conservator of Forests & Nodal Officer, FCA's No. 4242/L & LT/2M-62/2022 dt. 27.06.2022.

Madam,

In reference to above, the revised CA estimate (Advance work, Creation, Maintenance) and Net Present Value (NPV) are enclosed here with the letter under reference in connection with the proposal for diversion of 0.0262 ha. forest land under this Division in favour of IOCL for your kind approval.

Encl. As stated above.


**Divisional Forest Officer
Burdwan Division**

NO. 3414(2)/8-12, dt. 18-08-2022

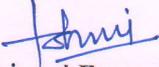
Copy forwarded for kind information to:

1. The Addl. Principal Chief Conservator of Forests & Nodal Officer, Forest Conservation Act, 1980, Aranya Bhaban, Salt Lake City, Kolkata-700106.
2. The Deputy General Manager (Construction), Indian Oil Corporation Limited, Construction Office, Durgapur, the Legend 2nd and 3rd Floor, Sahid Khudiram sarani City Center, Durgapur, West Bengal.


**Divisional Forest Officer
Burdwan Division**

NPV calculation as per chapter 3 (Net Present Value) Point No.3.4 (NPV Rates) of Forest (Conservation) Act, 1980 & Forest (Conservation) Rules, 2003 (Guidelines & Clarifications) of Ministry of Environment, Forest and Climate Change, Government of India, 2022.

Forest Type	Land Area (ha.)	Double of the land Area (ha.)	Classification	Rate per ha.	Total NPV
Dense Forest	0.0262	0.0524	Dry deciduous forest, Eco- Class- III	Rs.12,28,590.00	Rs.32,189.06


Divisional Forest Officer
Burdwan Division

**Estimate For Advance Work , Creation, Ten Year maintenance of Sal Plantation for
Compensatory Afforestation**

1. Unit - 1 Ha

2. Spacing - 2.50 m x 2.50 m

3. Species Sal,Amlaki, Bahera, Haritaki, Piasal, Mahul,Jarul,Jam,Arjun,Karanj Piyal,Sidha, Kusum, Haldu,Asan,Champ,Neem,Bhelai, Dha,Gab,Setisal,Ashoke etc.

A. Advance Work

SI. No.	Particulars of work	Qty/MD	Rate	Amount
	A. Nursery			
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 mannure 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 seedling during March	4.00		
		22.00	284.00	6248.00
9	Price of nursery materials			
	a) Polypot (8"x 6")	2 kg	200	300.00
	b) Bamboo thatch etc.		L.S	800.00
	c) Insecticides		L.S	500.00
	d) Seeds		L.S	800.00
	e) Cowdung	4 m3	1000.00	4000.00
	f) Sand	4 m3	700.00	2800.00
	g) Fencing materials			2500.00
				11700.00
	B. Soil Work			
1	Survey demarcation & preparation of map	1		
2	Alignment staking of planting pit	1		
3	Digging planting pit of size 60 + 45/2 X 45 X 45 over 1 ha	32		
4	Making inspection path	1		
5	Alignment and Cutting of contour trench of size 0.45m x 0.45m x 5 mt, total 500m long per ha =101.25 m3 in staggered101.25 m3 in staggered manner. 0. 5 mt away one pit line and 2 mt away from another line for easy movement. Trench line to next trench line distance 10 mt	40		
		75	284.00	21300.00
6	Making cattle proof trench over 144 m3 per ha	144 m3	120.47	17347.68
	C. Contingency			
1	Fertilizer etc		L.S	1904.32
	Total			58500.00

B. Creation Work

Sl. No.	Particulars	Qty/MD	Rate	Amount
CREATION WORKS (PLANTATION)				
1	Survey & demarcation	2		
2	Hoeing surrounding the boundary line including sowing of Akashmoni & Babla Seed	10		
3	Cleaning the plantation area before planting	16		
4	Allignment and stacking	4		
5	Inspection Path	6		
6	Digging planting pits	45		
7	Cost of carriage of seedling from nursery to planting cite	10		
8	Transplanting of potted seedlings in pits	16		
9	Filling up planting pits including application of fertilizer	20		
10	Planting seedlings including carriage	20		
11	Vacancy filling including application of insecticides	6		
		155	284.00	44020.00
	Total			44020.00
FENCING WORKS				
10	Erection of barbed wire fencing 4 strands including cost of fencing materials and fixing all complete including RCC post			60000.00
	Total			60000.00
TENDING & OTHER WORKS				
11	1st time weeding cleaning & mulching with fertilizer	16		
12	2nd time weeding cleaning & mulching	14		
13	3rd time weeding cleaning & mulching	10		
14	Watch & Ward	24		
15	Fire protection	8		
16	Fire line cutting	16		
17	Irrigation facility	10		
		98	284.00	27832.00
16	Making Signboard etc.			1990.00
	Total			29822.00
Materials				
17	Supply of fertilizer (cow dung),Vermicompost,Hormone			15000.00
	GRAND TOTAL			148842.00

C. MAINT WORKS -

1st YEAR MAINT WORKS		Wage Rate - 312.00		
Sl. NO	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
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 weedin cleaning & mulching with fertilizer	10		
5	Fire rotection	4		
6	Fire line maintenance	10		
7	Repair of fencing	6		
8	Watch & Ward	24		
9	Irrigation facility	10		
		98	312.00	30576.00
10	Fencing materials etc.			1500.00
Materials				
11	Supply of fertilizer,Vermicompose,Hormone			6816.00
12	Price of seedlings including carriage	160 Nos	15	2400.00
	TOTAL			41292.00

2nd YEAR MAINT WORKS			Wage Rate - 344.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
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	344.00	30272.00
9	Fencing materials etc.			3000.00
Materials				
10	Supply of fertilizer,Vermicompose,Hormone			5952.00
11	Price of seedlings including carriage	80 Nos	15	1200.00
	TOTAL			40424.00

3rd YEAR MAINT WORKS			Wage Rate - 378.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
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	378.00	31752.00
8	Fencing materials etc.			3000.00
Materials				
9	Supply of fertilizer,Vermicompose,Hormone			3060.00
	TOTAL			37812.00

4th YEAR MAINT WORKS			Wage Rate - 416.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
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	416.00	30784.00
7	Fencing materials etc.			2800.00
	TOTAL			33584.00

5th YEAR MAINT WORKS			Wage Rate - 457.00	
SL.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning & mulching with fertilizer	12		
2	2nd time weeding cleaning & mulchinpwith fertilizer	10		
3	Fire orotection	4		
4	Fire line maintenance	10		
5	Repair of fencing	6		
6	Watch & Ward	24		
		66	457.00	30162.00
7	Fencing materials etc.			2210.00
	TOTAL			32372.00

6th YEAR MAINT WORKS			Wage Rate - 503.00	
SL.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st 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	503.00	30180.00
6	Fencing materials etc.			1840.00
	TOTAL			32020.00

7th YEAR MAINT WORKS			Wage Rate - 553.00	
SL.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st 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	553.00	33180.00
6	Fencing materials etc.			2200.00
	TOTAL			35380.00

8th YEAR MAINT WORKS			Wage Rate - 609.00	
SL.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st 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	609.00	36540.00
6	Fencing materials etc.			2200.00
	TOTAL			38740.00

9th YEAR MAINT WORKS			Wage Rate - 670.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st time weeding cleaning & mulching with fertilizer	16		
2	Fireprotection	4		
3	Fire line maintenance	10		
4	Repair of fencing	6		
5	Watch & Ward	24		
		60	670.00	40200.00
6	Fencing materials etc.			2200.00
	TOTAL			42400.00

10th YEAR MAINT WORKS			Wage Rate - 737.00	
Sl.No.	Particulars	Qty/MD	Rate	Amount
TENDING WORKS				
1	1st 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	737.00	44220.00
6	Fencing materials etc.			2150.00
	TOTAL			46370.00

Abstract

Sl No.	Particulars	Amount
1	Advance Work	58500.00
2	Creation	148842.00
3	1st Years maintenance works	41292.00
4	2nd Years maintenance works	40424.00
5	3rd Years maintenance works	37812.00
6	4th Years maintenance works	33584.00
7	5th Years maintenance works	32372.00
8	6th Years maintenance works	32020.00
9	7th Years maintenance works	35380.00
10	8th Years maintenance works	38740.00
11	9th Years maintenance works	42400.00
12	10th Years maintenance works	46370.00
	Grand Total Per Ha :	587736.00
	Grand Total for 0.0524 ha @ 587736.00 :	30797.00

Watering facility at the plantation site during lean period

1	Construction of deep tubewell with Overhead tank	1	169203.00	169203.00
	Grand Total for C.A.:			200000.00

(Rupees Two Lakhs only)


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