कार्यालय वन परिक्षेत्राधिकारी छाल, धरमजयगढ़ वन मंडल

E.Mail ID -	Rangechhal123@gmail.	com
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क्रमांक / 750

दिनांक 12/05/2017

प्रति.

श्रीमान् वनमंडलाधिकारी धरमजयगढ़ वनमंडल

द्वारा : श्रीमान् उपवनमें इलाधिकारी धरमज्ञां उपवनमें इल

विषय:- SECL को छाल खुली खदान वन क्षेत्र कक्ष क्र. 478 एवं राजस्व वन क्षेत्र में आने वाले वृक्षों की गणना पत्रक।

संदर्भः - व.म.अ. धरमजयगढ़ का पत्र क्र./मा.चि./४८५ दिनांक ३१.०१.२०१७.

नमहोदाय,

प्रतिवेदन है कि संरक्षित वन भूमि 176.710 हे. एवं राजस्व वन भूमि 8.307 हे. का स्थल निरीक्षण कर क्षेत्र में आने वाले वृक्षों की गणना कर गणना पत्रक एवं प्रभावित हो रहे COST BENEFIT ANALYSIS वृक्ष विदोहन विवरण तैयार कर आपकी और आवश्यक कार्यवाही हेतु संलग्न प्रस्तुत है।

कुल वृक्ष संख्या

ई. घ.मी.

जलाऊ घ.मी.

योग घ.मी.

74284

933.495

2949.679

3883.174

COST BENEFIT :- 485.70 लाख।

संलग्न:--1. COST BENEFIT ANALYSIS गणना पत्रक।

2. वृक्ष गणना पत्रक।

652

वन परिक्षेत्राधिकारी

छाल परिक्षेत्र

Thend: 90 AD 300 EXAMURATE ST 3012 -4 m24 29

उपवन मण्डला विकारी प्रमाणमानु, स्पवन मण्डल

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ANNEXTURE

ATION OF LOSS OF FOREST OF DHARAMJAIGARH DIVISION FOR ACTUAL DIVERSION OF 185.017 HAC. OF FOREST & REVENUE FOREST LAND

(W.R.T.ANNEXTURE - II OF COST BENEFIT ANALYSIS - PERFORMA) FOR SECL CHHAL OC SEAM-III (6MTY), VILLAGES - ADU (Chhal)

		tails

CHHAL OC SEAM-III (6MTY)

Forest land Needed	P.F. Bade Jhar, Chotte Jhar ke Jangal	176.71 Hect. 8.307 Hect.
	Total	185.017 Hect.

Average quality of Forest

Average density of Forest

IV A.

0.5 to 0.6

Total no. of trees

(As per enumeration list)

74284 NOS.

Estimated total volume Estimated timber volume

Estimated Fuel volume

3883.174

Cum

933 495 2949.679

Cum Cum

(A) ITEM - Evaluation of loss of timber fuel minor forest produce mandays and expectation potential value of soil.

(a) Value of timber @12921/- Cum.

933.495 X 12921 =

12,061,688.90

(b) Value of Fule @ 900/- Cum.

2949.285X900 =

2654711.10

(c) value of Minor Forest produce (M.F.P)

(i) Toatl annual Revenue from MFP in the division

419545700

(ii) Total Forest arae in the Division

108493 Hect.

(iii) Average annual revenue per hact. From MFP

Rs. 419545700 / 108493 =

3867.030131

Average annual revenue per hact. From MFP

Rs. 3867 x 185.017

715461.00

(d) Value of man days

Man days X area applied X Daily wages

(i) Cost of Coupe working @ Rs. 35907 per Cu.m. @ , Rs. 1246/- Cum Rs. 6643405/- therefore per ha. Cost of Rs.

185.017 X 35907 =

6643405

Mandays = cost per ha/daily wage 5332/238 = 23 mandays

5332.00

Total =

6643405

(ii) Cost of MFP collection per Hect. Is about 60%

Rs.3867 (60/100) =

2320.00

of Gross revenue per Hect. Cost of MFP collection

MFP collection per ha. cost X Area

Therefore mandays = Cost per hect.from MFP / daily wages :

2320/238 = 9.74 days say Md.

10

Therefore total mandays

23+10

33

(e) (i) Expectation of potential value & soil CO = R/n - 11.00 (Faustman's formulka) Where: R = Upset price of Forest Growth Rs.(14000 x 185.017) = 2590238 P = rate of interest 4% n = Period of Rotation 40 years. Receprocal value of (R)(1.0Pn-1) w.o 0.2632 Co - upset price X Receprocal value Rs.2590238 X 0.2632 = Rs. 681751.00 (ii) Revenue obtained from intermediate yield C = T/a +n 1.01-1.0 Pn Where T = Revenue obtained from Thinning (per Hect.)543/ha P = rate of interest 4% A = year of thinning 40 years Reciprocal value of 1/(aPa+n) = 1.0Pⁿ 0.6760 C = Revenue per hect.X receprocal value Arae of Transfer 61 X 0.6760 X 185.017 = 7629.00 (iii) Fire protection charges C=RXA Where R = fire protection expenditure per Ha. 880/-C = 880X 185.017 = Rs. 162815.00 Total (e) = (i+ii+iii) 681751.00+7629.00+162815.00 = 852195.0 Total item (a+b+c+d+e) : 1206076+2654711+715461+6643405+852195 = 22927461 (B) ITEM:2 LOSS OF VALUE OF FODDER GRASS (i) Estimated quantity if (grass in metric tonnes) is based

on the consideration that on closure an area is capable of yielding on an average 2-4 MT of grass per Ha.

Average production X-Area applied = 6 MT X 185.017 = 1110.102 mt.

(ii) Loss of Value of Fodder : Estimated quantity X Market Rate

Average local market rate Rs. 2500/- ha. Hence 1110.102 X 5000 = Rs. 5550510

NIL

C) ITEM: 3 COST OF HUMAN SETTLEMENT

The forest land is not to be used for the rehabilitation of the displaced persons hence cost of human settlement is

(C) ITEM: 4 LOSS OF PUBLIC FACILITIES AND ADMINISTRATIVE INFRASTRUCTURE

(i) Cost of construction of road including incidental cost : NIL (ii) Cost of construction of forest guard quarter : NIL

Environmental losses =

Standard loss X area applied X actual per Ha. in a for density in the fully stocked area forest (density

Note required vide GOVT.OF INDIA MINISTRY OF AGRICULTURE (DEPT) AGRICULTURE & COOP) New Delhi The 23/25/2/1983 vide page No 7(3)

181 X185.017 X 0.6 X 1000 = Rs.

20092846

(C) ITEM:6

SUFFERING OF OUSTEES NIL

CALCULATION OF LOSSES		
Item No.	Amount Rs.	
01	22927461	
02	5550510	
03	NIL	
04	NIL	
05	20092846	
06	NIL	
Total	48570817	
	485.70 Lakh	

छाल पिक्षेत्र

वन प्रिक्षेत्राधिकारी छाल परिक्षेत्र वनमण्डल,धरमजयगढ

प्रश्ववववड्, खपवन मण्डल

COST BENEFIT ANALYSIS FOR

(Applied by SECL CHHAL OC SEAM-III

1	Cost of Project (Loss of forest as per Annexure II)	4.85 Crore
2	BENEFIT OF THE PROJECT	610.63 Crores
3	BENEFIT COST RATIO Worth of Benefit Net Worth of Loss	610.63 4.85
4	BENEFIT COST RATIO	125:9

S.No.	Parameters	
1	Loss of Value of timber, Fule, wood and other minor forest produce on an annual basis including loss of man hours wages form the harvest of these commodities	Rs. 22,927,461.00
2	Loss of animal husbandry productivity including loss of fodder	5,550,510.00
3	Cost of human resettlement	-
4	Loss public facilities and administration infeastructure (road, bulding. School, dispensary, electric lines raailways etc. on forest land or whitch would required forest land if these facilities were diverted due to the Project)	
5	Environmental losses (Soilerosion) efforts on hydrological cycle wildlife habitat, microclimate upsetting of ecological balances	20,092,846.00
6	Suffering to outsee	-
	Total Loss	

परिसर रक्षक

सहायक परिकेत अधिकारी सहायक परिकेत अधिकारी वन परिक्षेत्राधिकारी छाल परिक्षेत्र वनमण्डल, धरमजयगढ़ उच्चन मण्डलाविकारी