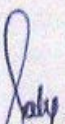
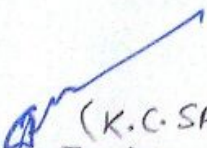


**ELECTRIFICATION OF UN ELECTRIFIED VILLAGES IN
DHAMTARI DISTRICT (C.G)
RGGVY 12th PLAN PROJECT**


- A Cost of the Project (loss of forest in 50 : 400 Lakhs
Years as per Annexure- II)
- B Benefit of the project (benefit from the : 900 Lakhs
Project in 50 year as per Annexure-III)
- C Worth of benefit/Net Worth of Cost – B/A : 2.25
- D Benefit Cost Ratio : 1:2.25

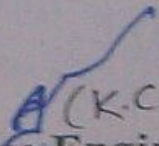

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Divitional Forest officer
Udanti Dn.Gariyaband

S. No.	Particulars	Electric line
1	2	3
1	Loss of value of Timber, fuel wood and minor forest produce on an annual basis including loss of main hours wages from the harvest of these commodities.	Nil
2	Loss of animal husbandry productivity, including loss of fodder.	Nil
3	Cost of human resettlement.	Nil
4	Loss of public facilities and administrative infrastructure (roads, building, schools dispensaries, electric lines railway etc. on forest land of which would be required forest land if these facilities were diverted due to the project.)	Nil
5	Environmental Losses (Soil Erosion) effect on hydrological cycle, wild life habitat, microclimatic upsetting of Ecological balances.	Nil
6	Suffering to oustess.	Nil
7	Cost of the Electrification Project.	400.00 Lakhs
	Total	400.00 Lakhs

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Identi Dr. Cariyaba

APPENDIX

EVALUATION OF LOSS OF FORESTS

(w.r.t. Annexure II of cost Benefit Analysis Proforma)

CALCULATION DETAILS

Project	: RGGVY 12 th PLAN PROJECT
Forest land needed	: 10.975 Hect.
Average quality of forest	: -----
Average density of forest	: 0.4 to 0.6
Total no. of trees	: 0
(As per enumeration list)	
Estimated total volume	: 0
Estimated timber volume	: 0
Estimated Fuel volume	: 0

"A" Item -I : Evaluation of Loss of Timber, Fuel, Minor Forest Produce, Mandays And

Expectation or Potential Value of Soil

a. Value of timber as per the abstract attached	: N/A
b. Value of Fuel @ Rs. 1565/-cum	: N/A
c. Value of minor forest produce	: N/A
Revenue per ha. X area applied	
(i) Total annual revenue -	: N/A
(from m.f.p. in the Division)	
(ii) Total Forest area of the Division -	: N/A
(iii) Average annual revenue per hect. From	: N/A
d. Value of Man days	: N/A
Man days per ha. X area applied x	
daily wages	

(i) Cost coupe working @ 1898/- per cum. : N/A

Therefore per hect cost --

(ii) Cost of m.f.p. collection : N/A

Per hectare in about 60%

c. (i) Expectation or potential value of soil : N/A
(Faust man's Formula)

$$Co = R/1.0P^{n-1}$$

Where

R = Upset Price of forest growth @ Rs. 9500^{per ha.}

P = Rate of interest = (4%)

n = Period of rotation = (40 years)

Reciprocal value of $(1/1.0P^{n-1})$

Co = Upset price x Reciprocal value x area

(ii) Revenue obtained from intermediate yield : N/A
 $T/(1.0P^{a-n}-1.0P^n)$

Where

T = Revenue obtained from thinning

P = Rate of Interest (4%)

a = Year of thinning 10 th

C = Revenue per hect x Reciprocal x Area for transfer

(iii) Fire Protection Charges : N/A

$$C = 25 R'' A$$

Where R'' A = Fire Protection exp dt per ha.

(Rate 70.00 per ha.)

Total expectation or potential value of soil = (i) + (ii) + (iii) = N/A

Total "A" item no. 1 = (a+b+c+d+e) = N/A
 There for 50 years – = N/A
 Say rate = = N/A

"B" Item 2 : Loss of value of Fodder (grass)

- (i) Estimated quantity of grass : N/A
 (On Average production x area applied
 metric ton based on the consideration
 that on closures an area is capable of
 yielding on an average 2 to 4 metric tone
 of grass per hectare.)
- (ii) Loss of value of fodder estimated : N/A
 Quantity x Market rate
 Rate of RS.

"C" Item 3 : Cost of Human Resettlement:

The Forest land is not to be used for
 the rehabilitation of the displaced persons,
 Hence the cast of human settlement is- : N/A

"D" Item 4: Loss of public Facilities and Administrative Infra Structure:

No Loss of public facilities and administrative in Infrastructure is involved.

"E" Item 5: Valuation of environmental Losses:

Environmental Loss:
 Standard Loss x Area x Actual per hact : N/A
 in a applied density in the fully stocked
 for area applied for forest density

"F" Item 6 : Suffering to oustess: : N/A

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Item No. 6

Loss of agricultural and Husbandry Production : Nil

Item No. 7

Cost of rehabilitation of the Displaced persons-
There is no displaced persons or Property involved in construction, hence the cost or Rehabilitation as compensatory Amount is- : Nil

Item No.8

Cost of supply of free fuel wood To workers:- : Nil
The fuel wood used by the workers Labors residing nearer to the forest area as it is the practice during construction period. Hence the cost of fuel wood is not necessary : Nil

Total Benefits from the Construction :

Of this project will be


Household 218x 100 unit x 12 Months x 6.7 per unit = 17.52 Lakhs.

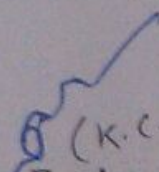
Say Rs. - 18 Lakhs.

Therefore for 50 years = 900.00 Lakhs

Cost Benefit ratio = $\frac{900}{400} = 2.25$

Cost Benefit ratio = 1:2.25


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EVALUATION OF BENEFIT NOT WITH STANDING LOSS OF FOREST

(With reference to Annexure – III of Cost Benefit Analysis proforma)

01. Name of Project : RGGVY 12th PLAN PROJECT
02. Estimate Cost for electrification : 400.00 Lakhs.
of Un electrified Villages
03. Cost Per Hectare : ~~10.975~~ Hect.
04. Revised Cost : Nil
05. Revised Cost per Hectare : Nil
06. Culture able command area : Nil
07. Designed area Kharif : Nil
Rabi
08. Villages Benefited : 8 nos.(218 household)

Increase for productivity

Item No. 1 : Nil

Item No. 2: : Nil

Item No. 3

Population benefitted : Nil

Approximately 1500 nos. of
Villagers are benefitted out of
Which belongs to SC/ST more
than 60%

Item No. 4

Employment potential : Nil

Average 1000 Labours employed
per day during the construction
period as found for actual data.

Item No. 5

Const. of acquisition on and : Nil
Forest land

Alternative area are reserved by : Nil
Collector, Dhamtari.