



OFFICE OF
THE EXECUTIVE ENGINEER (E)
PASIGHAT TRANSMISSION DIVISION NO-III
DEPARTMENT OF POWER,
ARUNACHAL PRADESH ELECTRICAL CIRCLE-II PREMISES,
OPPOSITE AIRPORT, PASIGHAT, PIN- 791102

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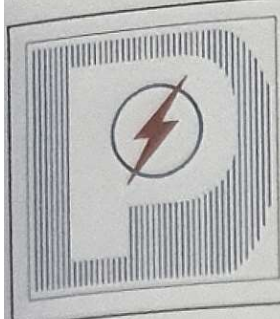
No. PED/DB-35/C&S/2020-21 / 1181
Annex-11

Dated, Pasighat

Table - C - Existing guidelines for estimating benefits of forest diversion in
3A

Parameters	Remarks	Monetary Equivalent
Increase in productivity attribute to the specific project	To be quantified & expressed in monetary terms avoiding double counting.	<p>Socio economy development & industrial growth, power for irrigation, telecommunication facility & distribution of grid power to rural households will have major to the socio-economy of the state.</p> <p>The lump sum monetary equivalent of the above benefit is considered as Rs. 50 Lakhs.</p>
Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.	<p>The monetary return of the specific transmission project is calculated as below:</p> <p>Capacity of the line loading = 50000 KW Cost of Power (assume an average value) = Rs. 3.90 per KWH Monetary return of the project for Fifty (50) years = $(50000 \times 24 \times 30 \times 12 \times 50 \times 3.9)$ = Rs. 842400 lakhs</p>
No. of population benefited due to specific project	As per the Detailed project report	<p>Entire population of Yeinkiong -Tuting and also the surrounding areas will be benefitted by the said 132 KV D/C Transmission line from Yeinkiong to Tuting The said line connectivity will help the rapidly developing Pasighat area by providing uninterrupted power supply for small- & large-scale business establishments which will improve the socio-economy development of the area.</p> <p>The lump sum monetary equivalent of the above benefit is considered as Rs. 50 Lakhs.</p>

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Economic benefits due to direct and indirect employment due to the project	As per the Detailed project report	Temporary labour engagement (<i>approx. 60 nos. per day</i>) during execution of the project along with various firms / suppliers / manufacturers will be engaged for a period of Four (4) years. Permanent employment for Fifteen (15) nos. will also be generated. the lump sum monetary equivalent of the direct & indirect employment generation is calculated as Rs. 450 lakhs.
Economic benefits due to Compensatory afforestation	Benefits from such compensatory forestation accruing over next Fifty (50) years monetised & discounted to the present value should be included as benefits of Compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted.	Benefits from compensatory forestation accruing over next Fifty (50) years is huge and monetary equivalent is considered as Rs. 50 lakhs.
Total benefit of the project (monetary equivalent)		= (50 + 842400 + 50 + 450 + 50) lakh = 843000 Lakh

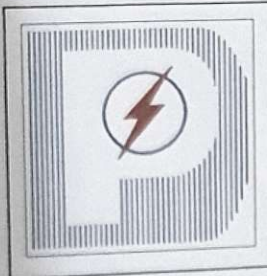
$$\text{Cost Benefit Ratio (CBA Ratio)} = \frac{\text{BENEFIT}}{\text{COST}}$$

$$= 843000 \text{ Lakhs} / 1672.12 \text{ lakhs}$$

$$= 504.13/1$$

$$(\text{CBA Ratio}) = 504.30$$

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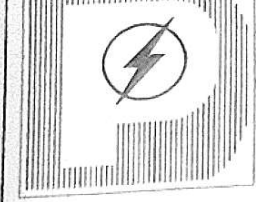
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Table - C - Existing guidelines for estimating benefits of forest diversion in CBA

Sl. No.	Parameters	Remarks	Monetary Equivalent
1	Increase in productivity attribute to the specific project	To be quantified & expressed in monetary terms avoiding double counting.	<p>Socio economy development & industrial growth, power for irrigation, telecommunication facility & distribution of grid power to rural households will have major to the socio-economy of the state.</p> <p>The lump sum monetary equivalent of the above benefit is considered as Rs. 50 Lakhs.</p>
2	Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.	<p>The monetary return of the specific transmission project is calculated as below:</p> <p>Capacity of the line loading = 50000 KW Cost of Power (assume an average value) = Rs. 3.90 per KWH Monetary return of the project for Fifty (50) years = $(50000 \times 24 \times 30 \times 12 \times 50 \times 3.9)$ = Rs. 842400 lakhs</p>
3	No. of population benefited due to specific project	As per the Detailed project report	<p>Entire population of ALONG -YEINKIONH and also the surrounding areas will be benefitted by the said 132 KV D/C Transmission line from Yeinkiong to Tuting The said line connectivity will help the rapidly developing Pasighat area by providing uninterrupted power supply for small- & large-scale business establishments which will improve the socio-economy development of the area.</p> <p>The lump sum monetary equivalent of the above benefit is considered as Rs. 50 Lakhs.</p>

[Signature]
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Economic benefits due to direct and indirect employment due to the project	As per the Detailed project report	Temporary labour engagement (<i>approx. 60 nos. per day</i>) during execution of the project along with various firms / suppliers / manufacturers will be engaged for a period of Four (4) years. Permanent employment for Fifteen (15) nos. will also be generated. the lump sum monetary equivalent of the direct & indirect employment generation is calculated as Rs. 450 lakhs.
Economic benefits due to Compensatory afforestation	Benefits from such compensatory forestation accruing over next Fifty (50) years monetised & discounted to the present value should be included as benefits of Compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted.	Benefits from compensatory forestation accruing over next Fifty (50) years is huge and monetary equivalent is considered as Rs. 50 lakhs.
Total benefit of the project (monetary equivalent)		= (50 + 842400 + 50 + 450 + 50) lakh = 843000 Lakh

Cost Benefit (CBA Ratio) =
$$\frac{\text{BENEFIT}}{\text{COST}}$$
$$= \frac{843000 \text{ Lakhs}}{4471.78 \text{ lakhs}}$$
$$= 188.51/1$$

(CBA Ratio) = 188.51/1

Place: - Pasighat Dtd: -

(Executive Engineer (E),)

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