

परियोजना – अजयगढ़ – पन्ना 132 के.व्ही डीसीएसएस लाइन।
 प्रस्तावक विभाग – एमपी पावर ट्रांसमिशन पैकेज- II लिमिटेड।
 प्रस्ताव सं० – FP/MP/TRANS/151776/2022

लागत लाभ विश्लेषण

एमपी पावर ट्रांसमिशन पैकेज- II लिमिटेड द्वारा जनपद पन्ना में अजयगढ़ – पन्ना 132 के.व्ही डीसीएसएस लाइन के निर्माण में 39.6495 हे० वन भूमि के गैर वानिकी प्रयोग हेतु मांग की गयी। भारत सरकार के दिशा निर्देशों के अनुसार लागत लाभ विश्लेषण इस प्रकार है।

Table-A: Cases under which a cost-benefit analysis for forest diversion are required

Sl.No	Nature of proposal	Applicable / not applicable	Remarks
1	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills.	Not applicable	These proposals may be considered on a case-to-case basis and value judgment.
2	Proposal for defence installation purposes and oil prospecting (prospecting only).	Not applicable	In view of national Priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals would be rarely entertained.
4	All other proposals involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydro projects, mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centers, TV towers etc	Applicable	These are cases where a costbenefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest

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Table B: Estimation of Cost of Forest Diversion

Sl.No	Parameters	Valuation in INR
1	Ecosystem services losses due to proposed forest diversion.	Considering the Net present value of forest area to be diverted be 13.5711 Lakh per Ha as per highest density in Eco class III Hence losses to Eco system: 13.5711 Lakh x 39.6495 Ha = 538.09 Lakh
2	Loss of animal husbandry productivity, including loss of fodder.	Considering 10% of NPV applicable of diversion area. Hence Losses of Animal Husbandry: 13.5711 Lakh x 39.6495 Ha x 10% = 53.81 Lakh
3	Cost of Human resettlement.	There is No Human Resettlement involved in the project. Hence losses: NIL
4	Loss of public facility and administrative infrastructure (Roads, building, school, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	There is no Loss of public facility and administrative infrastructure due to this project. Hence Losses : NIL
5	Possession value of forest land diverted	Considering 30% of environmental costs (NPV) due to loss of forest. Hence losses: 13.5711 Lakh x 39.6495 Ha x 30% = 161.43 Lakh
6	Cost of suffering to oustees	There is No rehabilitation of people, hence no social losses. Losses : NIL
7	Habitat Fragmentation Cost	Considering 50% of applicable NPV Total Losses: 13.5711 Lakh x 39.6495 Ha x 50% = 269.04 Lakh
8	Compensatory afforestation and soil & Moisture conservation cost.	Considering 4.0 Lakh/Ha including CA and soil & Moisture Conservation cost Hence Total Losses: 4.0 Lakh x 39.6495 Ha x 2 = 317.20 Lakh

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Table C: Estimated Benefits of Forest Diversion

Sl.No	Parameters	Valuation in INR
1	Increase in Productivity attribute to the specific project	Project is under the Tariff based and the tariff is fixed for next 35 years at the time of bidding. Construction cost of project: 2800 Lakh Revenue generated: 16664.17 Lakh Hence benefit: 13864.17 Lakh
2	Benefit to economy due to the specific project	Same as of above.
3	No of population benefited due to specific project	Directly or indirectly the complete state of Madhya Pradesh state will be benefited by this project.
4	Economic benefits due to of direct and indirect employment due to project	The project is of 43.639 km Line length which require direct employment for the construction of above project. Benefit from Direct Employment estimated: 18000 Man days' x Rs 500 = 90 Lakh
5	Economic benefits due to compensatory afforestation	Considering it to be equivalent to the Compensatory afforestation on the area to be diverted. Hence benefits: 4.0 Lakh x 39-6495 Ha x 2 = 317.20 Lakh

Total Loss to Environment : 1339.57 Lakh

Benefit to Economy : 14271.37 Lakh

Cost Benefit Ration : Total Loss to Environment: Benefit to economy
 = 1339.57: 14271.37
 = 1: 10.65= **1:11**



(सैयद शारिक इमाम)
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