

चेकलिस्ट क्र.-13

कास्ट/ बेनिफिट एनालाईसिस प्रतिवेदन

प्रमाणित किया जाता है कि आवेदक संस्थान कार्यपालन अभियंता (निर्माण) दक्षिण पूर्व मध्य रेलवे जिला राजनांदगांव (छ.ग.) द्वारा वन संरक्षण अधिनियम 1980 अन्तर्गत तृतीय रेलवे लाईन निर्माण कार्य के लिये खैरागढ़ वन मंडल के दक्षिण बोरतलाव परिक्षेत्र के अंतर्गत आरक्षित वनकक्ष क्रमांक 437 की 16.372 हे. वनभूमि एवं 4.582 हे. राजस्व वनभूमि (बड़े झाड़ का जंगल) कुल 20.954 हे. भूमि की मांग न्यूनतम एवं अपरिहार्य है। आवेदित भूमि में पूर्व से मिश्रित प्रजाति के (वनभूमि 3003 एवं राजस्व वनभूमि 541 कुल 3544) वृक्ष विद्यमान है विदोहन योजना के तारतम्य में अंतिम चरण की स्वीकृति के पश्चात नियमानुसार अनुमति प्राप्त कर विदोहन कार्य किया जावेगा। इस हेतु कास्ट/बेनिफिट एनालाईसिस रिपोर्ट संलग्न है।


(संजय कुमार यादव)
भा.व.से.


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BENEFIT COST ANALYSIS REPORT.

Cost Benefit Analysis for the diversion of **20.954 ha** forest land for Construction of 3rd line work Paniajob-Bortalao passing through the areas of villages Paniajob, and Bortalao in Tah. Dongargarh Dist. Rajnandgaon and the total length of Construction of 3rd work is 228 kms from Rajnandgaon to Kalumna (Nagpur).

A. Abstract of Financial benefits from the project: -

Sr. No.	Description of Items	Financial Benefits (in Lakh of Rs.)
1	<p>Increasing of Productivity attributed to specific project.- The benefits from this project over a period of 50 years are calculated based on the data available with Traffic Survey department of Railways. As per estimations due to laying of this line there will be a large enhancement in transportation of Coal, Steel product, Cement, Washed coal, Gypson& Finished product. Increasing in productivity attributed to specific project will be estimated at 17500000 TPA goods for initial year of the full commissioning of project.</p> <p>I) For first 4 years (construction period) – Nil</p> <p>II) Traffic will be estimated at 52455.02 lakh per year for 1st years and upto next five year. For 1 to 5 years @ 52455.02 lakh per annum – Rs. 262275.10 lakh</p> <p>III) Traffic will be estimated at 104197.05 lakh per year from 6th year and upto next 50 year. For 6 to 50 years @ 104197.05 lakh per annum – Rs. 4688867.25 lakh</p> <p>Total (I+II+III) = 4951142.35 Lakh for 228 Km(Project length) Panijab- Bortalao is 07 Km so earning will be = 152008.75 Lakh</p>	152008.75 Lakh
2	No. population benefited due to specific project – The population of 90679 per annum fromDarekasa and Salekasa taluka/village will be benefited indirectly from this project. But monitory gains cannot be assed.	
3	Economic benefits due to direct and indirect employment due to the project. – This project involves temporary of 200 persons per day for 4 years of construction. The average daily wage rate is calculated @ Rs.500/- per person per day and will give employment involving Rs. 1460.00 lakhs. This has to employ nearly 20 permanent persons for running this project over next 50 years. The average salary of each person per month will be Rs. 30000/- and hence the direct employment will cost 3600.00 lakh	5060.00 Lakh
4	Economic benefits due to Compensatory Afforestation – The Compensatory Afforestation will be raised over a land of 50 ha. The economic benefits realized from this project are calculated over a period of 50 years (C.A. over taken of 50 ha plantation/per ha 2500 plants= 125000 plants) after 50 years per tree value near about Rs. 25000/- but only calculation Rs. 1000/- X 125000 trees= 1250.00 lakh	1250.00 Lakh
Total Financial benefits from the project		158318.75 Lakh


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Sr.No.	Description of Items	Cost of Forest (inLakh of Rs.)
1	Ecosystem service losses due to proposed forest diversion	168.26 Lakh
2	Loss of animal husbandry productivity including loss of fodder.	16.826 Lakh
3	Cost of human Resettlement – as this project dose not involved any human resettlement hence there will be no loss involved on account of human resettlement	NIL
4	Loss of public facilities and administrative infrastructure (Schools, road etc) on forest land, or which would require forest land if these facilities were diverted due to the project.	NIL
5	Possession value of forest land diverted – at present the possession value of forest land to be diverted 20.954 ha. Estimated to be 30% of the net present value.	50.478 Lakh
6	Cost of suffering oustees,- As this project does not involve any rehabilitation there will be no loss involved on this account	NIL
7	Habitat Fragmentation cost - this project involves forest land between Darekasa&Salekasa forest division which is habited for various wild animals & birds found in that aria. But there is no tiger project, national park, sanctuary eco sensitive zone of any existing protected aria hence habited fragmentation cost is calculated as 50% of value of net present value..	84.13 Lakh
8	Compensatory Afforestation and soil and moisture conservation cost. – As the project aria is 20.954 ha. and this being a central government project the compensatory will be taken on double degraded land in possession of forest department i.e. – 50 ha. of land this compensatory Afforestation will be raised @ Rs 7.2627 lakh per ha = 363.135 Lakh	363.135 Lakh
Total estimated cost of forest diversion		682.829 Lakh

Cost Benefit Ratio:

- Cost of Forest (As per Table B calculation) = 682.829 Lakh
- Estimating Benefits of the Project(As per Table A calculation)=158318.75 Lakh

Benefit: Cost Ratio = 231.85


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