

**Cost benefit Analysis (CBA) for Proposal for Extension of Bhamasha Krishi Upaj mandi Samiti
Anantpura Kota (Raj.)**

Name of the Project - **Proposal for Extension of Bhamasha Krishi Upaj mandi Samiti
Anantpura Kota (Raj.)**
 Total proposed area - **96.00 Ha.**
 Forest Division - **Kota**

Cost Benefit analysis for twolaning of Proposal for Extension of Bhamasha Krishi Upaj mandi Samiti Anantpura Kota (Raj.) is estimated as per the guidelines of Government of India, Issued vide letter No. 7-69/2011-FC(Pt.) dated 01.08.2017, and is given below:-

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

S.No	Nature of proposal	Applicable/Not applicable	Remark
1	All categories of proposal up to 20 hectares in plains and up to 5 hectares in Hill.	Applicable	The main objective of this project is to provide platform to the farmers and the poor people who are fully base. on Agriculture with the extension of mandi yard the farmer will easily sell there agriculture product and other's product easily in optimum prize and with in time for protect the agriculture product .To save product the economic cost goes increase as a saving due to in time marketing of agriculture product.
2	Proposal for defense installation purpose and soil prospecting (prospecting only)	Not applicable	Not applicable
3	Habitation establishment of industrial unit, tourist lodges/complex and other building construction.	Not applicable	No Loss of any habitation tree and any flora and funa due to existing baren land and rock area.
4	All other proposals involving forest land more than 20 hectares in plains and more than 05 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydal projects, mining activity, railways lines, location specific installations like micro-wave stations, auto repeater centers, TV towers etc.	Applicable	This proposal in mainly main objective of this project is to provide platform to the farmers and the poor people who are fully base on agriculture . with the extension of mandi yard the farmer will easily sell there agriculture product and other's product easily in optimum prize and with in time for protect the agriculture product . To save product the economic cost goes increase as a saving due to in time marketing of agriculture product.in Kota District of Rajasthan State covering forest land.96.00 Ha of forest land/reserve forest land is involved in this project. Benefit Cost Ratio has been calculated as per forest guidelines.

Annexure-II

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Table- B Estimation of costs of forest diversion:

S.No.	Parameters	NPV Factor as per guidelines	Remarks
1	Ecosystem services losses due to proposed forest diversion	1	The total area considered for diversion is 96.00Ha. The economic value of loss of eco-system services due to diversion of forest is taken as the NPV of the forest land being diverted as per MoEF&CC. Forest type and forest class is considered as per FSI report 2015, and NPV value as per MoEF&CC guidelines dated 01.08.2017 at 957780/- . The value is calculated at 91946880/- or Rs. 9.1946 Crores for the forest area diverted.
2	Loss of animal husbandry productivity, including loss of fodder	Nil	10% of the NPV cost= 9.1946/- OR 0.9194 CR
3	Cost of human resettlement.	Not applicable	Nil. As no human settlement issue is involved.
4	Loss of public facilities and administrative infrastructure (Road, Buildings, Schools, Dispensaries, electric lines, Railway etc.) on forest land, or which would require forest land if these facilities were diverted due to the project.	Not applicable	Nil, as there is no loss to the public facilities.
5	Possession value of forest land diverted	Not Applicable	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum. (a) NPV of forest land = 9.1946 Crores. 30% of (NPV) environmental Cost = 2.7584 Crores
6	Cost of suffering of oustees.	Not Applicable	Nil
7	Habitat fragmentation Cost	Not Applicable	50% of (NPV)= 4.5973 CR.
8	Compensatory afforestation and soil and moisture conservation cost	Applicable	As per FC calculation, the amount for CA AND SOIL AND MOISTURE CONSERVATION COST OF NFL& DFL is = 287 lakh or say 2.87 cr.
	Total estimated cost of forest diversion		Rs. 20.3397 Crores

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9	Project cost	Applicable	<p>The proposed project for which diversion of forest land is sought is for widening & up gradation of existing Mandi. This will help in both economic & social development in the region by which people of the region will be directly benefited. This will accelerate industrialization/commercialization in region and the same will directly generate maximum employment opportunities in these areas and boosting up the economy of the region and the State. Again directly the project will have the potential for employment generation for local people 2,00,000 man days during the construction period. The proposed project does not involve any manufacturing or production unit.</p> <p>Total Project Cost- 250 Cr.</p>
	Total Losses		270.3397 cr.

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TABLE- C Existing Guidelines for estimating benefits of forest diversion in CBA

S.N o.	Parameter	Given Guidelines	Evaluation
1	Increase in productivity attribute to the specific project	To be quantified & expressed in monetary terms avoiding double counting	The proposed project for which diversion of forest land is sought is for widening & up gradation of existing Mandi. This will help in both economic & social development in the region by which people of the region will be directly benefited. This will accelerate industrialization/commercialization in region and the same will directly generate maximum employment opportunities in these areas and boosting up the economy of the region and the State. Again directly the project will have the potential for employment generation for local people 2,00,000 man days during the construction period. The proposed project does not involve any manufacturing or production unit.
2	Benefit to economy due to specific project	The incremental economic benefits in monetary term due to the activities attributes to the specific project.	Economic Benefits-savings in crops and agricultural & forest products 30 years. 137.19 cr
3	No. of population benefits due to specific project	As per Detailed Project Report	Economic Benefits due to sell of crops products. enhancement, access to farmer product etc. AV. Tax Collection per yr for existing mandi 50 cr. Av. Tax Collection per yr. after extension of mandi 200 cr. Total Tax collection in 30 yr. $200 \times 30 = 6000$ cr. Deduction of salary/other development = 3000 cr. Net Benefit = 3000 cr.
4	Economic benefits due to direct and indirect employment due to the project	As per detailed Project Report	Direct Employment of Labours- 220 @ Rs. 200x280x3 employed during construction for 3 years and 1000x280x30 during operation stage for 30 years in saving in fruits & vegetable and from destroyed prepare crops due to sell in time in market. In Cr. = 840.00 Cr.
5	Economic benefit due to compensatory afforestation	Benefits from such compensatory accruing over next 50 years monetized and discounted to the present value should be included as benefits of compensatory afforestation. For benefit of CA the guideline of the MoEF & CC. of NPV may be consulted.	In lieu of total trees to be remove from proposed forest land and along the project Site it is proposed to undertake at least twice of affected area (NFL & DFL) as Compensatory afforestation and forest conservation act 1980. So the net productivity will be done in 192 ha of forest land. The ecological value for 50 years period for the CA would be 10 times as per present value. The expected value will be 10 lac per ha. Hence, for 192 ha. it will be Rs. 19,20,000/- or 0.1920 Crores.
Total estimated benefits of forest diversion in CBA			Rs. 3977.382 Crores

Total cost benefit ratio loss and benefit of the project

S.No.	Loss in Crores	Benefit in Crores
1	Rs. 270.3397 Crores	Rs. 3977.382 Crores
2	1 (Cost)	2 (Benefit)
3	Cost benefit ratio = 1 / 2	0.0680

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प्रमाण पत्र

प्रसंग :- क्रमांक 1966 05.04.2023 के जवाब के क्रम में।

प्रस्ताव का नाम :- LAND FOR EXTENTION OF BHAMASHAH MANDI SAMITI


यूजर एजेन्सी का नाम :- KRISHI UPAJ MANDI SAMITI KOTA

प्रत्यावर्तित वन क्षेत्र :- 96.00 Hac.

प्रस्तावित जिला एवं वन मण्डल :- Kota District and Kota Division

प्रस्ताव संख्या एवं पंजीकरण तिथि :- FP/RJ/other/20036/2016 29.06.2016

प्रमाणित किया जाता है कि प्रस्तावित वन भूमि के संबंध में लागत लाभ विश्लेषण परिपत्र फोरेस्ट विलियरेन्स परिवेश से फोरमेट दिनांक 01.08.2017 के अनुरूप ही है।


(जवाहर लाल नागर)

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