

## Details of calculation of Economic Analysis of Road Project

NAME OF PROJECT :- **Construction of Road from BALMATKOTE TO BAGUDASS**

**A.**

1. Total earning of the District	Rs 10,849.50 Lacs
2. Total Length of the Road in District	450km
3. Earning per Km	Rs 24.10 Lacs
4. Length of road covered under the Project (km)	24.00 Kms
5. Total Earning on account of the project	578.4 lacs

**B. Reduction in vehicle operating cost**

(i) Total length of road under Project	=	24.00 Kms
(ii) Total P.C.U (Passenger Car Unit)	=	44
(iii) Conversion factor	=	Rs. 7/Km/PCU
(iv) Income generated out of VOC	=	$\frac{7 \times 24.00 \times 44}{10^5}$
	=	0.0073 Lacs

**C. Travel time saved**

Proportionate saving in travel time

$$\begin{aligned} &= 10\% \text{ of population} \times \text{time reduction} \times \text{Km} \\ &= 10/100 \times 3000 \times 8/60 \times 365/8 \times 24 \times 0.65 \times 500 \end{aligned}$$

0.65 ---- Probability of serving employment

$$\begin{aligned} 500 \text{ ---- Avg. wage rate/day} \\ &= 0.00198 \times 3000 \times 24.00 = 142.56 \text{ Lacs} \end{aligned}$$

$$\text{Total benefit} = 578.4 + 0.0073 + 142.56 = 720.96 \text{ lacs}$$

$$\begin{aligned} \text{Therefore, Cost Benefit Ratio} &= 720.96/110.32 \\ &= 6.53 \end{aligned}$$

Assistant Executive Engineer  
PMGSY Sub-Division  
Arnas/Mahore

  
Executive Engineer  
Executive Engineer  
PMGSY Sub-Division  
PMGSY Sub-Division  
Mahore

S.NO.	PARAMETERS	ESTIMATION OF BENEFITS OF FOREST DIVERSION	
		DETAILS	REMARKS
1	Increase in productivity attribute to specific project.	<p>A. Road is the basic amenity which makes a crucial contribution both in social and economical way of growth and development of an area and general inhabitants.</p> <p>B. <b>Agriculture Productivity:</b> Because of new road, there shall be positive impact on agriculture productivity due to easy access to technology and marketing.</p>	
2	Benefits to Economy due to the project.	<p>The project for construction of road from BALMATKOTE TO BAGUDASS (Package No : JK14-305) is sanctioned under PMGSY. The total length of the road upto village Mamankote is 24.00 km and it takes off from hamlet Sungri . The proposed road will benefit total population of 3000 souls as per 2001 census. The road will benefit the economy by providing access to basic services to the population thereby furthering the target of poverty elimination by the Govt.</p> <p>A. <b>Access to Medical Services:</b> The road will provide access to medical services to the population of these villages especially the vulnerable classes i.e, old , pregnant women and the children.</p> <p>B. <b>Access to Education services viz Higher Secondary School and Degree college at Mahore.</b></p> <p>C. <b>Extension of Govt Schemes:</b> Various Govt schemes will be easily extended to the population of these villages after the construction of said road.</p> <p>D. <b>Social Infrastructure:</b> The new road will also help in development of social infrastructure (Health, Sanitation, water supply etc.) in these villages..</p>	
3	No. of Population Benefitted due to project	<p>The proposed road will benefit total population of 3000 souls as per 2001 census. The people of these villages will be socially and economically benefitted after the completion of this road as they do not have access to any motorable road till date and also these villages will be directly connected to their District and Block Headquarters.</p>	
4	Economic Benefits due to direct and indirect employment due to project	<p>A. <b>The project will provide employment to approx. 40 persons a day till its completion period of 1.5 yrs generating approx 22000 mandays.</b></p> <p>B. <b>The cultivators and traders of the area will get direct access to the market thus affecting their livelihood in a positive manner.</b></p>	
5	Economic Benefits due to compensatory afforestation	<p>There shall be compensatory afforestation on 15.28 Ha. of degraded land at 52/GG in Mahore Forest division /Reasi District. Over the years it will lead to economic benefits by providing timber, fuel and fodder in the area.</p>	

  
Executive Engineer  
PMGSY Division

## FOREST PROPOSAL FOR THE CONSTRUCTION OF THE

COST BENEFIT ANALYSIS

FOREST PROPOSAL FOR THE CONSTRUCTION OF ROAD - 'BALMATKOTE TO BAGUDASS' IN MAHORE FOREST RANGE, DISTRICT REASI			
COST BENEFIT ANALYSIS			
S.NO.	PARAMETERS	ESTIMATION OF COST OF FOREST DIVERSION	
		DETAILS	REMARKS
1	Ecosystem services losses due to proposed forest diversion	Rs 50.19 lacs	NPV
2	Loss of Animal Husbandry productivity, including loss of fodder	Rs 5.019 lacs	10% of NPV
3	Cost of Human Resettlement	0.00	-
4	Loss of Public Facilities and administrative infrastructure (Roads, Building, Schools, Dispansaries, electric lines, railways etc.) on Forest land, which would require forest land if these facilities were diverted due to the project	-	No such infrastructure involved
5	Possession value of Forest land diverted	Rs 15.05 lacs	30% of NPV
6	Cost of suffering to outsees	0.00	-
7	Habitat Fragmentation cost	Rs 25.09 lacs	50% of NPV
8	Compensatory Afforestation and soil and moisture conservation cost	14.90	Double of Cost of Forest Area involved
<b>TOTAL</b>		<b>Rs 110.32 lacs</b>	

**Executive Engineer  
PMGSY Division  
Mahore**