Cost Benefit Analysis

Total Length of the Road = 12.842 km

Benefits -

(A) Benefit due to easy communication of vehicles -

Suppose 500 vehicle (heavy) ply per day

For 1 year nos of Vehicles = $365 \times 500 = 182500$

Assuming Rs. 2000 (av) benefit per vehicle per day

Total benefit = 182500 x 2000 = Rs. 36.50 Crores

(B) Benefit due to transportation of Food grains, vegitables, Jungle products etc.

Assuming

2500 MT Paddy & Wheat

700 MT Mahua

100 MT Vegetable

Cost enhancement of product due to easy/proper connectivity

2500 MT x 2000 per MT

= 0.50 Crores

700 MT x 5000 per MT

= 0.35 Crores

100 MT x 5000 per MT

= 0.05 Crores

Sub Total

= 0.90 Crores

- (C) Hat Bazar Development besides alignment of road Assuming Rs. 2,50,000.00 benefit (av) per day For 1 year 365x 2,50,000.00 = Rs. 9,125 Crores
- (D) Social upliftment of area

Assuming

L.S.

50.00 Crores

(E) Other benefits such as petrol pump, School, College, industries etc establishment

Assuming

L.S.

100.00 Crores

Total 196.525 Crores

Value of Forest/ Environment

Assume loss due to forest per hectare = 0.50 Lakh

Total Loss

6.532 x 0.5 = 3.27 Crore

Thus even for as much as 6.532 hectare forest area involved in the construction of Gumla By pass road would be advantage in monetary terms

Cost benefit ratio = 196.525/3.27 = 60.10

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NH Section, Gumla

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NH Division, Gumla