

Name of Work

“Diversion of Forest Land and Tree Felling Proposal for Widening of National Highway-717A from “Ranipool – Pakyong” (Length - 20 Km) in the State of Sikkim

4. Cost Benefit Analysis **(By Executing Agency)**

Parameters for Evaluation of Loss of Forests **[Annexure - V (i)]**

| Sl. No. | Parameters | Nature of Proposal : Roads |
|----------------|---|---|
| 1. | Loss of value of timber, fuel wood and minor forest produce on an annual basis including loss man-hours per Annum of the people who derive livelihood and wage from the harvest of these commodities. | The instant proposal involve the diversion of 3.1838 Ha of forest land from Ranipool to Pakyong in East District of Sikkim, where numbers of trees/poles excluding bamboo, herbs, shrubs & siblings are likely to be affected as per the enumeration list. The value of timber and other benefits as incorporated in the Net Present Value (NPV) amounting to Rs. is payable by the User Agency as per the Rules & Guidelines of the Forest (Conservation) Act, 1980. The cost for felling & extraction of project affected trees/poles for Rs. is also payable by the User agency. However, minimum removal of forest produce/ felling of trees/ poles will be done depending upon the necessity for up-gradation of road. It appears that the losses would be compensated and would be converted in the form of benefits either directly or indirectly. |
| 2. | Loss of animal husbandry productivity including loss of fodder. | There would be minimum removal of vegetation from the project area and as such there would be minimal loss to the animal husbandry and fodder. |
| 3. | Cost of Human Re-settlement. | No human population will be displaced owing to the project, hence there will be no re-settlement & rehabilitation programme. |
| 4. | Loss of public facilities and administrative infrastructures (Road, Building, School, Dispensaries, Electric Lines, Railways etc) on forest land if these facilities were diverted. | There is no direct loss of public facilities except shifting of electrical poles from road to the corner side of the project area. The narrow existing road would be developed to double lane configuration under the infrastructure development project. |
| 5. | Environmental losses: | As such there may be minimal impact on the |

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| | (Soils Erosion, Effect on Hydrological Cycle, Wildlife habitat, Micro- climate upsetting of ecological balance) | environment which will be taken care during the course of construction. |
| 6. | Suffering Oustees | There would be no oustees in the project area. In case of any one is affected during the upgradation/construction period, the appropriate measures will be taken up accordingly. |

Parameters for Evaluation of Benefit, Notwithstanding with Loss of Forests [Annexure – V (ii)]

| Sl. No. | Parameters | Nature of Proposal : Roads |
|---------|--|--|
| 1. | Increase in productivity attributable to the specific project | The proposed upgradation/widening/construction of single lane to the double configuration of existing “ Ranipool to Pakyong ” road in East District of Sikkim (20 Km) will provide smooth and good riding quality to both the LMV and HMV, saving the time factor and averting the chances of road accidents. This will also support the tourism promotion to a great extent. |
| 2. | Benefits to economy | This will also provide the benefit to the locals in terms of livelihood of transporters, hoteliers, travel agencies, guiders/navigator, agriculture products and other non-agriculture products at large. |
| 3. | Number of population benefitted. | This will benefit the population to the extent of 6.00 lakhs. Mostly, the population of East District of Sikkim and West Bengal region will be benefitted in many folds. We also cannot ignore the other benefits receivable by the people of the country out of this project. |
| 4. | Employment potential | During the period of project construction of 2-3 years, more than 150000 persons will be benefitted with employment opportunity. |
| 5. | Cost of acquisition facility on non-forest land wherever feasible. | The construction activities to be done as per the MoRTH/IRC Guideline. |

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| 6. | Loss of (a) Agriculture & (b) Animal Husbandry production due to diversion of forest land. | Negligible |
| 7. | Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacement | There is no displacement or people under the project, hence no rehabilitation programme has been drawn for the instant proposal. |
| 8. | Cost of supply of free fuel-wood to workers residing in or near forest area during the construction period. | The project will provide an alternate of fuel-wood. LPG and other items to be provided to the labourers/ workers residing in the project and nearby area and there would be no use of firewood from any forest area. |

Date : 27 July 2017

Place : Gangtok (Sikkim)


Executing Agency

(Signature of Head of Branch Office with Official Seal)

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