

COST - BENEFIT ANALYSIS.

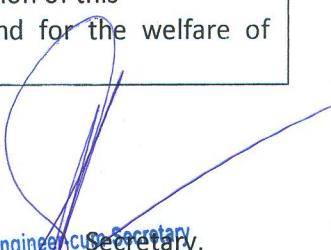
CONSTRUCTION OF ROAD FROM SOPHAKHA TO CHEWABHANJIANG VIA JOREBOTAY IN WEST SIKKIM.

Parameters for Evaluation of benefit, notwithstanding with Loss of Forests (Annexure-VI (b)).

Sl. No	Parameters	Description
01	Loss of value of timber, fuel wood and minor forest produce on an annual basis including The loss of man hours per annum of the people who derived livelihood and wage from the harvest of these commodities	25.82 Ha total forest land (Surface) is involved in this project. The enumeration of forest produces has been carried out at the time of joint inspection and its location and sites inspection survey has been carried out on 8 -12 July,2011. The felling and removal of the forest produces is comparatively less than the numbers of trees are required to be felled than the old road alignment and location. As such there would be no loss to the man days, wages and livelihood of the people residing in an around the project area as the Compensatory Afforestation, CAT PLAN, Biodiversity conservation, Green Belt and other environmental measures shall be taken up by the project, which will increase the employment opportunities.
02.	Loss of Animal Husbandry, productivity including loss of fodder	There would be minimal loss of fodder for cattle as land involved are very minimal since grazing is banned in Reserved Forest since 1995. As a result, there shall be no adverse impact to either Animal Husbandry or growth of fodder for cattle.
03	Cost of human re-settlement	There shall be no displacement or any ousters of families in the project and therefore the question of re-settlement does not arise. However, considerable amount of fund is being kept aside for the welfare and upliftmen of the local area and people.
04	Loss of public facilities and administrative infrastructures (road, buildings, schools, dispensaries, electric lines, railways etc) on the forest lands if these facilities were diverted due to the project.	There is no acquisition or diversion of public facilities and infrastructures in the proposed project and as a result no any loss of any facility or infrastructure in the project. Rather the project shall take up suitable measures to strengthen the existing facilities and infrastructures within the project areas
05	Environmental losses (Soil erosion, effect on hydrological cycle, wildlife habitat, micro-climate upsetting of ecological balance.	There shall be minimal environmental losses in this project since the proposed area is very minimal and only minimal required trees are removed causing least disturbances to the existing ecology like flora & fauna, avian-fauna and other ecological niches and Environment like micro-climate. However, the project management shall undertake various programmes like Compensatory Afforestation, CAT Plan, Greening of the project working areas to mitigate the loss of ecology and environment.
06	Suffering to Ousters.	There is no displacement of person due to construction of this Components However there is a provision of fund for the welfare of affected people.

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Parameters for Evaluation of benefit, notwithstanding with Loss of Forests (Annexure-VI(c)).

Sl. No	Parameters	Description
01	Increase in productivity attributable to the specific project	The proposed construction of road from Sophaka Village to Chewabhanjyang passing through the Barsey Rhododendron Sanctuary is to provide road connectivity to the Indo-Nepal border at Chewabhajyang in West Sikkim. The road would be a life line for mobility of the Sashastra Seema Bhal (SSB) & the Sikkim Armed Police (SAP) for international security. These security personnel's have been posted to secure these areas from intruders from Nepal and other nearby country like Bangladesh through West Bengal. Besides, that the illicit collection and inter-State mobility of valuable animal & medicinal products, being the area is boon for natural resources are checked and control by constant surveillance and patrolling by wildlife and forest officials.
02.	Benefit to economy	The proposed constructions of road from Sophaka Village to Chewabhanjyang passing through the Barsey Rhododendron Sanctuary are to provide road connectivity to the Indo-Nepal border at Chewabhajyang in West Sikkim. The road would be a life line for mobility of the Sashastra Seema Bhal (SSB) & the Sikkim Armed Police (SAP) for international security. These security personnel's have been posted to secure these areas from intruders from Nepal and other nearby country like Bangladesh through West Bengal. Besides, that the illicit collection and inter-State mobility of valuable animal & medicinal products, being the area is boon for natural resources are checked and control by constant surveillance and patrolling by wildlife and forest officials .The project does not only connect road with international boarder but this will have tremendous economic benefit to the State by promoting trade between Nepal & India.
03	No. of population benefited	The entire population of the State shall derive benefit from this project. The special benefit would go to the West district having more than 0.80 lakhs population. This will definitely be beneficial directly or indirectly to the entire population of the country.
04	Employment potential	During the construction of this project about 25 to 30 % of the estimated cost shall provide the direct or indirect employment to local people. Considering the amount of labour components, 10% of the total cost of the project, the potential for temporary employment generation of Skilled, Semi-skilled and Un-skilled labour is likely to increase.
05	Cost of acquisition facility on non-forest land wherever feasible.	The acquisition of non-forest/private land involved under the project has already been under process and considerable amount of cost of land has been kept aside for payment whenever necessary as per the norms of the State Government..

06	Loss of (a) Agriculture & (b) Animal Husbandry production due to diversion of forest land.	The agricultural/private land involved is very nominal and there would be minimal loss which would be recovered by taking up various programmes like Compensatory afforestation, Wildlife Mitigation Plan, CAT Plan, Greening of the project working & other environmental programme.
07	Cost of rehabilitating the displaced persons different from compensatory amounts given for displacement.	There is no displacement of person due to construction of road. However there is a provision of fund for the welfare of indirectly affected people and for their economic upliftment.
08	Cost of supply of free fuel-wood to workers residing in or near forest area during the period of construction	The Project shall provide LPG, Kerosene etc to the labourers/workers engaged during construction of the project and as such there shall be no use of firewood from forest area. Separate fund provision has been kept for the purpose.


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