


COST BENEFIT ANALYSIS

PARAMETERS FOR EVALUATION OF LOSS OF FORESTS

Sl.No	Parameters	Approach Road
01.	Loss of value of timber, fuel wood and minor forest produce on an annual basis, including loss of man-hours per annum of people who derived livelihood and wages from the harvest of these commodities.	No trees enumerated in the proposed. Hence there will be no loss of timber.
02.	Loss of animal husbandry productivity, including loss of fodder.	Negligible.
03.	Cost of human settlement.	Not applicable as no human displacement involved.
04.	Loss of public facilities and administrative infrastructure (roads, building, schools, dispensaries, electric line, railways etc.) on forest land, or which would require forest land if these facilities were diverted due to the project.	Not applicable as no public utilities falls on the forest land involved.
05.	Environmental Losses: (Soil erosion, effect on hydrological cycle, wildlife habitat, microclimate, upsetting of ecological balance)	As no trees are involved in the proposed area, and the area involved is very less, so the environmental losses are negligible.
06.	Increase in productivity attributable to the specific project.	Considering average flow of power through 66 KV Sub-Station: 10 MVA @0.8 P.F = 8 MW Load Factor-50%, Loss-2%, average cost of power @ 5 Kwh, Energy sent out/year= $8 \times 1000 \times 0.5 \times 8760 \times .98$ = 34,339.2 x 1000 Kwh Value added = Rs 1.7 Crores
07.	Benefits of economy.	The proposed Sub-station connects other(s) Sub-Stations by transmission lines which evacuates power generated from hydro-electric power plant and also cater loads to the various location of the of Sikkim. With commissioning of the Sub-station, the state of Sikkim will also earn considerable revenue from industrial and domestic consumers.


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08.	No. of population benefited.	Whole population of Sikkim.
09.	Employment potential	<p>Sub-station construction costs: 8.1 Crores Approximately 20% will be labour component and percentage of various categories of laborers, their daily wages shall be as under:-</p> <ul style="list-style-type: none"> i) Skilled- 20% @ 347/day ii) Semiskilled- 30% @288/day iii) Unskilled-50% @ 246/day <p>The following employment opportunities are generated:</p> <ul style="list-style-type: none"> i) Skilled laborers – 9337 manday ii) Semiskilled laborers – 16875 manday iii) Unskilled laborers- 32926 manday
10.	Loss of agriculture and husbandry due to diversion of forest land.	Nil, as the forest land proposed to be diverted is not linked with agriculture or animal husbandry and also the area is very small.
11.	Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacement.	Nil, as no person is being displaced due to the transmission line project.
12.	Cost of supply of free fuel wood to workers residing in or near Forest area during the period of construction.	Nil, as during construction period workers shall be provided with Kerosene/LPG.

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