



**GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE EXECUTIVE ENGINEER
DEPARTMENT OF UD & HOUSING , ZIRO DIVISION::ZIRO**



Table- B: Estimation of cost of forest diversion

| SN | Parameter | Remarks | Monetary equivalent |
|----|---|---|---|
| 1 | Ecosystem services losses due to proposed forest diversion | Economic value of loss of eco-system services due to diversion of forest shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF & CC). <i>Note: In case of National Parks the NPV shall be in ten (10) times the normal NPV and in case of wildlife sanctuary the NPV or otherwise prescribed by the ministry or any other competent authority.</i> | NVP for the diverted forest area is to be considered as per department concerned. 2x9.39=18.78 lakhs |
| 2 | Loss of animal husbandry productivity, including loss of fodder | To be quantified and expressed in monetary terms or 10 % of NVP applicable whichever is maximum. | NIL. As the proposal project is an overhead transmission line, there will be no loss of animals husbandry productivity including loss of fodder. After completion of tower erection and stringing, natural vegetation/ plantation of dwarf species will cover temporarily damaged during construction. |
| 3 | Cost of human resettlement | To be quantified and expressed in monetary terms as per approved R&R plan. | NIL. There is no human resettlement issue in this project. Hence no cost involved for any R&R scheme. |
| 4 | Loss of public facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric lines, railways etc. | To be quantified and expressed in monetary terms on actual cost basis at the time of diversion. | NIL. There is no requirement of any diversion of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways etc) under this CONSTRUCTION OF DUMPING GROUND / LAND FILL, SOKANG AREA. |
| 5 | Possession value forest land diverted. | 10 % of environment costs (NVP) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forestland whichever is maximum | The possession value of forest land diverted is calculated as Rs. 9.39 Lakhs. (10% of NVP) However, in case of this projects, possession of diverted forest land is not completely required by the |


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| | | | User Agency after completion of the project & during operation and maintenance (O & M) stage. As per existing MoEF guideline, dwarf species plantation will be undertaken below the transmission line corridor (RoW) by Forest Department, only looping & pruning of tree branches near the electric conductor will be required during the maintenance period of the project. |
| 6 | Cost of suffering to outs tees | The social cost of rehabilitation of outs tees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what outs tees should have earned in two years had he not been shifted. | Not applicable for this project since there is no resettlement involved. |
| 7 | Habitant Fragmentation Cost | While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as thumb rule | Considered as 50% of NPV i.e Rs. 155.79 Lakhs |
| 8 | Compensatory afforestation and soil and moisture conservation cost | The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value | Cost of CA is considered as = 3.5 lakh per ha. Total Ca Cost (in double degraded land) =(3.5 X 2.00 ha X 2) =14.00 Lakhs |
| | | TOTAL cost of forest diversion | (18.78+9.39+155.79+14.00) Lakhs = 197.96 Lakhs |


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