



Trevi Hospital

91- Meitei Langol
Imphal, Manipur - 795004

Email : trevihospital@gmail.com
Regd. No. 1 of 2020-21

Ref. No. :

Date: 6/5/2020

COST BENEFIT ANALYSIS

Name of project: Infrastructural Development for Cancer Hospital at Meitei Langol in the State of Manipur

Nature of proposal: Construction of Trevi Hospital

Purpose: This Cost Benefit Analysis is being undertaken for the Proposed Construction of Trevi Hospital at Meitei Langol, Imphal West in the state of Manipur

Table A: ESTIMATE OF COST OF FOREST DIVERSION

Sl no.	PARAMETER	DESCRIPTION
1.	Ecosystem services losses due to proposed forest diversion	1. Proposed forest area to be constructed: 0.898 ha 2. Canopy density of the proposed area: 0 - 10% 3. Forest Cover Area in ha: 0.898 ha of Scrub forest 4. As per Supreme Court's Order dated 28.03.2008 in WP@ No 202/1995: i. Forest type of the proposed area: Eco Class 1 ii. Net Present Value (NPV): 0.898 ha of Scrub forest @ Rs 7.3 lakhs/ha = Rs 6,55,540
2.	Loss of animal husbandry productivity including loss of fodder	Nil
3.	Cost of human resettlement	No Resettlement for the Project
4.	Loss of public facilities and administrative infrastructures (roads, buildings, schools, dispensaries, electric lines, railways etc.) on forest land which would require forest land if these facilities were diverted due to the project	No loss of public facilities and administrative infrastructures due to the Project
5.	Possession value of forest	30% of environmental cost (NPV)

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land		= 30% of Rs 6,55,540 = Rs 1,96,662
6. Cost of suffering to ousters		Nil
7. Habitat Fragmentation Cost	As per thumb rule, 50% of NPV	= 50% of Rs 6,55,540 = Rs 3,27,770
8. Compensatory afforestation and soil & moisture conservation cost	Compensatory afforestation cost for 1.796 ha proposed forest land diversion: Rs4,67,567 @ Rs225/wage rate (including Rs50,770 as soil & moisture conservation cost which is 10% of CA item work cost for a maintenance period of 8 years)	

TABLE B: ESTIMATION OF BENEFIT OF FOREST DIVERSION

Sl no.	PARAMETER	DESCRIPTION
1.	Increase in productivity attributed to the specific project	Every year, around 1800 new cases of cancer is diagnosed in Manipur. More than half of these cases go outside Manipur for treatment, mostly to Tata Memorial Hospital, Mumbai. Treatment like chemotherapy may take many months. Two or more persons accompany the patient as attendants, and there is loss of thousands of man-days of work every year for these attendants. If a dedicated cancer hospital is established in Manipur, this loss of work force can be avoided which will result in increased productivity overall in Manipur.
2.	Benefit to economy due to the specific project	The cost of a return ticket flight to Mumbai for a visit to Tata Memorial Hospital is around Rs 15,000 per person. And many patients are advised follow up every 3 months to once a year later on. And Mumbai has one of the highest room rent in India. Taking a minimalistic estimate of Rs 1 lakh for a trip to Mumbai including airfare and lodging for 3 or more persons per visit, and a minimal number of 1000 visits a year taking into account the

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<p>3. No. of population benefited due to specific project</p>	<p>At least Rs 10 crores a year just for travel and stay for treatment at TMH, Mumbai. This is besides the cancer treatment expenditure, which can be very costly. A dedicated cancer hospital in Manipur will help save a lot of these expenditures annually. Health tourism from neighbouring country Myanmar will also add to the economy as the entire part of Myanmar bordering India do not have cancer hospital. Only a few dedicated cancer hospitals are there, located in Mandalay and Yangon.</p>
<p>4. Economic benefits due to direct and indirect employment due to the project</p>	<p>The entire state of Manipur and neighbouring states like Nagaland and Mizoram will be benefited by the proposed cancer hospital. NorthEast India has the highest incidence of cancer in India but cancer hospitals are lacking in this region. Around 350 people will get employment for this 100 bedded hospital, which will include 250 fulltime staffs and 100 part-time staffs. Many taxi drivers and upcoming shopkeepers will also benefit from the hospital.</p>
<p>5. Economic benefits due to Compensatory Afforestation</p>	<p>2920 mandays for period of 8 years for CA Plantation of 1.796 Ha (0.898 x 2) @ Rs 225/mandays = Rs 6,57,000</p>

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