

Name of Proposal: Diversion Of 7.3991 ha of forest land in favor of Luni Power Company Private Ltd, Village Deol khas, Post & Tehsil Baijnath, District Kangra, H.P - 176125 for the construction of 33 KV S/C Transmission Line from Luni -1 SHEP Switchyard to 33 KV HPESB Ltd. Baijnath Sub-station, within the jurisdiction of Palampur Forest Division, District Kangra, Himachal Pradesh. (FP/HP/TRANS/40307/2019)

### CHECK LIST (S. No. 29 – a)

#### COST BENEFIT ANALYSIS

#### CATEGORY OF PROPSAL FOR WHICH COST BENEFIT ANALYSIS APPLICABLE

S. No.	Nature of Proposal	Applicable Not Applicable	Remarks
1	All Categories of proposal involving forest land up to 20 ha in plan and upto 5 ha in hills.	N/A	
2	Proposal for defense installation purposes and oil prospecting (prospecting only)	N/A	
3	Habitation, establishment of industrial units, tourist lodges/complex and other building construction	N/A	
4.	All other proposal involving forest land more than 20 ha in plans and more than 5 ha in hills including roads, transmission line, minor, medium and major irrigation project, mining activity, railway lines, location specific installation like micro wave stations, auto repeater center, TV Tower etc/	Applicable (7-39-91 ha)	Construction of 33 Kv S/C Transmission Line from Luni Power Company Pvt Ltd Luni – I SHEP Switchyard to HPSEBL, 33Kv Baijnath Sub- Station

Deputy Conservator of Forest  
Palampur Forest Division  
Palampur

M/s Luni Power Company Pvt Ltd

Authorized Signatory



Place: Palampur  
Date: 05-04-2023

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**CHECK LIST (S. No. 29-b)**

**ESTIMATION FOR COST OF FOREST DIVERSION**

1	Ecosystem Services losses due to proposed forest division	Rs. 7913115 ( NPV of 7.3991 ha of forest land @ Rs. 1063470 per ha)
2	Loss of animal husbandry productivity, including loss of fodder	Rs. 517197 ( Estimated Grass loss 5ton/hect/year@ Rs. 100 per ton estimated for 100 yrs for 7.3991 hec =5x100x100x7.3991=369955.  10% of NPV-Rs. 517197, which is higher than above so it is chosen.)
3	Cost of human resettlement	Nil (No human relocation is involved due to this line.)
4	Loss of public facilities and administrative infrastructure ( Roads, buildings, schools. Dispensaries, electric line, railway etc) on forest land if these facilities were diverted due to the project.	Nil (No public facilities or administrative infrastructure i.e. Roads, buildings, schools. Dispensaries, electric line, railway etc. is coming in the alignment of the line. Hence, there is no question of loss of facilities or there diversion to the forest land.)
5	Possession Value of Forest Land diverted	Rs.1551591.00 ( 30% of NPV)
6	Cost of suffering to oustees	Nil (There will be no displacement of people due to this work)
7	Habitat Fragmentation Cost	Rs. 2585985.00 ( 50% of NPV)
8	Compensatory Afforestation and Soil & Moisture conservation Cost.	Rs. 3822600( CA cost)

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CHECK LIST (S. No.29 – c)

PARAMETERS FOR ESTIMATION OF BENEFITS OF FOREST DIVERSION

S.No	Parameters	Nature of Proposal
1	Increase in Productivity attributed to the specified project	I) The Project will yield 19.58 MU power annually. This power will be available not only for local consumption through State Distribution Utility-H.P State Electricity Board, but also for the local Industrial purpose resulting in raising the standard of local people. II) The industries in raising the standard of local people. III) The Luni HEP will generate revenue of Rs. 5.26 Cr annually
2	Benefit OF Economy	Rs. 105732000.00 ( 19.58 x 1000000x2.50x.12x40 yrs @0.45 PLF) (An estimated 19.SBMU- power to be transmitted through this 33 kV Transmission Line annually .The Project will yield a revenue of Rs. 4.89 Crores annually .Out of this, 12% power will be provided to the Govt of H.P free of cost. Balance power will also be provided to HPSEBL at fixed rate of Rs.2.50 per unit as per ttle PPAs with HPSEBL, which will be further sold by HPSEBL at higher rates, thus getting additional revenue for H.P State Electricity Board).
3	Number of Population benefitted	A population of around 1500 people will be benefitted because of Luni HEP.
4	Economic Benefits due to direct and indirect employment due to project	Rs.16800000-5 persons x 7000x12 monthx40 yrs (Permanent-During O & M) Rs. 450000.00 – 900 Man-days @ Rs.500 (During construction)
5	Economic Benefits due to compensatory afforestation	Rs. 76044000.00 (The Compensatory Afforestation will be done in 15 Hectare of land with density of minimum 0.4. The ecological value for a 50 years period for the density of 10 is Rs. 12674000 per Hectare. By considering minimum 0.4 density for ecological gain for the project would be 12674000 X 0.4 X 15 = Rs. 76044000.00)

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#### A. SUMMARY OF BENEFITS OF FOREST DIVERSION

S.No	Parameters	Monetary Value
1	Increase in Productivity attributed to the specified project	Rs 50000000.00
2	Benefit of Economy	Rs.105732000.00
3	Number of Population benefitted	1500
4	Economic Benefits due to direct and indirect employment due to the project	Rs.17250000.00
5	Economic Benefits due to compensatory afforestation	Rs.76044000.00

**TOTAL BENEFITS – Rs. 199026000.00**

#### B. SUMMARY OF COST OF FOREST DIVERSION

S.No	Parameters	Nature of Proposal
1	Ecosystem Services losses due to proposed forest division	Rs . 7913115.00
2	Loss of animal husbandry productivity, including loss of fodder.	Rs. 517197.00
3	<u>Cost of human resettlement</u>	Nil
4	Loss of public facilities and administrative infrastructure	Nil
5	Possession Value of Forest Land diverted	Rs . 7913115.00
6	Cost of Suffering to oustees	Nil
7	Habitat Fragmentation Cost	<u>Rs. 2585985.00</u>
8	Compensatory Afforestation and Soil & moisture conservation Cost	Rs. 3822600.00

**TOTAL COST – Rs. 13170744.00**

#### BENEFIT / COST RATIO- ESTIMATED BENEFITS/ESTIMATED COSTS:

= 199026000/13170744= 15:1 which is greater than 1. Hence, this project will give Positive Benefit to Cost Ratio.

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