

L P C P L

Water to Wire

Luni Power Company Private Limited

Full Title of the Project:- Diversion of 7-39-91 ha of Forest land in favour of *Luni Power Company Private limited Near ChimbalHar Home Stay Vill- Chimbalhar, ,P.O.-Geeta Peeth Palampur -Distt.-Kangra -176061* for the construction of 33 kV S/C Transmission Line from Luni Power Company Pvt. Ltd. Luni-I SHEP Switchyard to HPSEBL, 33 kV Baijnath Sub-Station , within jurisdiction of Palampur Forest Division, Distt.-Kangra, Himachal Pradesh.

CHECK LIST (S. No.-29-a)

COST BENEFIT ANALYSIS

CATEGORY OF PROPOSAL FOR WHICH COST BENEFIT ALAYSIS IS APPLICABLE

S No.	Nature of Proposal	Applicable/ Not Applicable	Remarks
1	All Categories of proposal involving forest land up to 20 hectare in plain and up to 5 hectare 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 hectare in plains and more than 5 hectare 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 hectare)	Construction of 33 kV S/C Transmission Line from Luni Power Company Pvt. Ltd.'s Luni-I SHEP Switchyard to HPSEBL, 33 kV Baijnath Sub-Station

Place: Palampur

Date: 19/07/2019

[Signature]
Deputy General Manager
Luni Power Company Pvt. Ltd.

C/S

[Signature]
Divisional Forest Officer ,
HP Forest Division, Palampur,
Distt.-Kangra (H.P.)
PALAMPUR

LUNI POWER COMPANY PRIVATE LIMITED

22, Camac Street, Block – A, 3rd Floor, Kolkata – 700 016

Tel: 91-033-40091200,40091247

Palampur Office: Near ChimbalHar Home StayVill- Chimbalhar, ,P.O.-Geeta Peeth Palampur –
Distt.-Kangra -176061



LPCPL

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**CHECK LIST (S.No.-29-b)
ESTIMATION FOR COST OF FOREST DIVERSION**

S	Parameters	Nature of Proposal
1	Ecosystem Services losses due to proposed forest division	Rs. 5171971 (NPV of 7.3991 ha of forest land @ Rs. 699000 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 hect =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. 3344000 (CA cost)

Place: Palampur

Date: 19/07/2018

C/S

Divisional Forest Officer,
HP Forest Division, Palampur, Distt.-Kangra (H.P.)

Deputy General Manager
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22, Camac Street, Block – A, 3rd Floor, Kolkata – 700 016

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Full Title of the Project:- Diversion of 7-39-91 ha of Forest land in favour of *Luni Power Company Private limited Near Chimbahal Home Stay Vill- Chimbahal, P.O.-Geeta Peeth Palampur -Distt.-Kangra -176061* for the construction of 33 kV S/C Transmission Line from Luni Power Company Pvt. Ltd. Luni-I SHEP Switchyard to HPSEBL, 33 kV Baijnath Sub-Station, within jurisdiction of Palampur Forest Division, Distt.-Kangra, Himachal Pradesh.

CHECK LIST (S.No.-29-c)

PARAMETERS FOR ESTIMATION OF BENEFITS OF FOREST DIVERSION

S	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 will flourish because of abundant availability of Power. iii. There will be compensatory plantation for 15 Hectares (three times the area of land proposed for diversion) at the cost of Project.About Rs. 33.44 Lakh will be spent on afforestation.
2	Benefit of Economy	Rs. 105732000.00 (19.58 x 1000000x2.50x.12x40 yrs @0.45 PLF) (An estimated 19.58MU- 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 the 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	i.The population of areas through which the line is passing will be benefitted as the power generated will also be used for the local Industrial purpose resulting in raising the standard of local people. ii. The industries will flourish because of abundant availability of Power
4	Economic Benefits due to direct and indirect employment due to the project	Rs.16800000-5 persons x 7000x12 monthx40 yrs (Permanent-During O & M) Rs. 450000.00 -900 Mandays @ 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)

Place: Palampur

Date: 19/07/2019

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Divisional Forest Officer, HP Forest Division, Palampur, Distt.-Kangra (H.P.)

LUNI POWER COMPANY PRIVATE LIMITED

[Signature]
Deputy General Manager
Luni Power Company Pvt. Ltd.



A. SUMMARY OF BENEFITS OF FOREST DIVERSION

S	Parameters	Monetary Value
1	Increase in Productivity attributed to the specified project	NA
2	Benefit of Economy	Rs. 105732000.00
3	Number of Population benefitted	NA
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	Parameters	Nature of Proposal
1	Ecosystem Services losses due to proposed forest division	Rs. 5171971.00
2	Loss of animal husbandry productivity, including loss of fodder.	Rs. 517197.00
3	Cost of human resettlement	Nil
4	Loss of public facilities and administrative infrastructure	Nil
5	Possession Value of Forest Land diverted	Rs. 1551591.00
6	Cost of Suffering to oustees	Nil
7	Habitat Fragmentation Cost	Rs. 2585985.00
8	Compensatory Afforestation and Soil & moisture conservation Cost	Rs. 3344000.00

TOTAL COST- Rs. 13170744.00**BENEFIT COST RATIO- ESTIMATED BENEFITS/ESTIMATED COSTS**

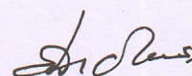
$=199026000/13170744= 15:1$ which is greater than 1. Hence , this project will give Positive Benefit to Cost Ratio.

Place: Palampur

Date: 19/07/2018

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