No.Ft.48-3731/2018 (FCA)
H.P.Forest Department.

From:

Nodal Officer-cum-Addl. P.CCF (FCA)
O/O Pr. CCF, HP, Shimla.

To:

The Regional Officer,
Integrated Regional Office, GoI, MoEF &CC,
CGO Complex, Shivalik Khand,Longwood,Shimla,HP.

Dated Shimla-1, the 8 DEC 2021

Subject: Diversion of 9.739 ha of forest land for in favour of HPSEB Ltd. for the construction of Devi Kothi Hydel Electric Project (16.00MW) within the jurisdiction of Churah Forest Division Distt Chamba, HP.
(Online proposal No.FP/HP/HYD.32280/2018)

Sir,

The subject cited forest land diversion proposal was discussed in the 61th meeting Regional Empowered Committee held on 29.10.2021 through video conference. The point wise reply to the observations raised during the meeting is furnished as under please.

(i) The CCF Chamba, has submitted that only two cases/projects have been accorded under the approved comprehensive CAT Plan for Ravi Basin and amount of CAT Plan @2.5% of TEC has been deposited through RTGS/NEFT in HP CAMPA through online challan generated. The detail of projects and funds deposited is given as under:

Sr.No.	Name of project	Area(in ha)	Total cost of CAT Plan deposited @2.5%of TEC	Transation details
1.	Deothal Chanju(30MW)	15.64	68477500	UTR No. BARBP 1923210648 dt.17.9.2019(copy enclosed).This amount also CA & NPV amount.
2.	Chanju-III(48MW)	25.98	104642500	UTR No. BARBP 19263208038 dt.17.9.2019(copy enclosed).This amount also CA & NPV amount.

PTO

Regarding the funds expenditure/funds utilization DFO Chamba has submitted that the plan for implementation of CAT Plan of the above projects and to utilize the funds is under preparation. Once the said plan will be get prepared and finalized, the funds will be demanded and utilized accordingly. As on neither funds under approved comprehensive CAT Plan for Ravi River Basin is demanded nor received by this office.

(iii) The revised Cost Benefit Analysis of the project submitted by the user agency and duly authenticated by DFO concerned is enclosed herewith.

Encl:As above.

Nodal Officer-cum-AP CCF(FCA)
O/O Pr. CCF, H P. Shimla

Endst.No.Ft.48-3731/2018(FCA) Dated Shimla-1,the

Copy is forwarded to CCF Chamba for information & necessary action. This is with reference to his office letter No.D.V.509/5499 dated 4.12.2021.

Nodal Officer-cum-AP CCF(FCA)
O/O Pr. CCF H P. Shimla

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AGENCY COPY

NEFT / RTGS CHALLAN for Ad-HOC CAMPA

Date : 17-09-2019

Agency Name.	HIMACHAL PRADESH POWER CORPORATION LIMITED
Application No.	5623695118
MoEF/SG File No.	8B/HP/01/55/2019/FC
Location.	HIMACHAL PRADESH
Address.	Himfed Bhawan,Panjari,Below Old MLA Quarters,BypasShimla
Amount(in Rs)	131723983/-

Amount in Words : Thirteen Crore Seventeen Lakh Twenty-Three Thousand Nine Hundred and Eighty-Three Rupees Only

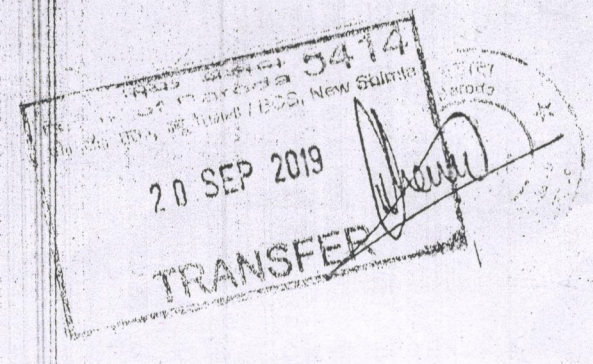
UTR-BARBD19263208038

NEFT/RTGS to be made as per following details;

Beneficiary Name:	HIMACHAL PRADESH CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150705623695118 Valid only for this challan amount
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only
- This challan is valid only for seven days

After making successful payment, User Agencies ma
Email: helpdeskcampa@corpbank.co.in



-00029728458

USO

AGENCY COPY

NEFT - RTGS CHALLAN for Ad-Hoc CAMPA

Date : 17-09-2019

Agency Name	HIMACHAL PRADESH POWER CORPORATION LIMITED
Application No.	5623829723
MoEF/SG File No	8/8/HP/01/63/2019/FC
Location.	HIMACHAL PRADESH
Address.	Himfed Bhawan,Panjari,Below Old MLA Quarters,Bypass Shimla
Amount(in Rs)	84431523/-

Amount In Words: Eight Crore Forty-Four Lakh Thirty-One Thousand Five Hundred and Twenty-Three Rupees Only

UTR- BARBP19263206 48

NEFT/RTGS to be made as per following details;

Beneficiary Name:	HIMACHAL PRADESH CAMPA
IFSC Code:	CORP0000371
Pay to Account No.	150705623829723 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11,CGO Complex, Phase I, Lodhi Road, New Delhi -110003

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only
- This challan is valid only for seven days.

After making successful payment, User Agencies m
Email: helpdeskcampa@corpbank.co.in

Bank of Baroda 5414
बी ओ बड़ा, [illegible] / BCS, New Shimla
20 SEP 2019
TRANSFER

Project Name:- DEVIKOTHI HEP (16MW) FP/HP/HYD/32280/2018

COST BENEFIT ANALYSIS OF PROJECT

Annexure – i

CATEGORY OF PROPOSALS FOR WHICH COST BENEFIT ANALYSIS

S.No.	Parameters	Applicable/Not Applicable	Remarks
1.	All categories of proposals involving forest land up to 20 hectares in plains and up to 5 hectares in hills	NOT APPLICABLE	.
2.	Proposal for defence installation purposes and oil prospecting (prospecting only)	NOT APPLICABLE	
3	Habitation, establishment of industrial units, tourist lodges/complex and other building construction	NOT APPLICABLE	
4	All other proposals involving forest land more than 20 hectares in plains and more than 5 ha. In hills including roads, transmission lines, minor, medium and major irrigation projects, hydel projects mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centres, T.V towers etc.	APPLICABLE,	This is 16 MW Hydro Electric Project being constructed in the hilly area of Distt. Chamba (HP) for which barest minimum 9.739 Hect. Forest land for various component of the project has been identified for diversion. Meticulous exercise has been carried out to minimize the use of forest land and trees (which has been accepted after the site inspection by the forest officers of the area) and keeping the public interest intact.

AE
PCSD-III
HPSEBL Tissa

Sr. Executive Engineer
Projects Const. Division No -1
HPSEB Ltd Tissa Distt Chamba (H.P.)

Divisional Forest Officer
Churah Forest Divn. Saloni

Annexure – i

PARAMETERS FOR EVALUATION OF LOSS OF FORESTS

<table>
<tr><th>S. No.</th><th>Parameters</th><th>MoEF Guidelines</th><th></th><th>Total Loss (Rs. In Lakhs)</th></tr>
<tr><td>1.</td><td>Ecosystem services losses due to proposed forest diversion</td><td>Economic value of loss of eco-system services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted .</td><td>Calculation of NPV
Distt:- Chamba<table><tr><td>1.1 Surface Forest Land</td><td>9.739 Hac.</td></tr><tr><td>Eco-Class of Forest</td><td>Class VI</td></tr><tr><td>Forest Cover</td><td>Open Forest (OF)</td></tr><tr><td>NPV rate of class (VI) forest</td><td>6,99,000/- per hectare (Surface @100%)</td></tr><tr><td>NPV of Forest</td><td>9.739 Hac x 6,99,000/- = 68,07,561.00</td></tr><tr><td></td><td>= 68.08 lakh</td></tr></table></td><td>Rs 68.08/-</td></tr>
<tr><td>2.</td><td>Loss of animal husbandry productivity, including loss of fodder</td><td>To be Quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum</td><td>Calculation
(I) Self Quantified
Distt:- Chamba<table><tr><td>1.1 Surface Forest Land</td><td>9.739 Hac.</td></tr><tr><td>Eco-Class of Forest</td><td>Class VI</td></tr><tr><td>Forest Cover</td><td>Open Forest (OF)</td></tr><tr><td>Rate of fodder production (as per montane & moist temperate Forest)</td><td>6236/- lakhs /year</td></tr><tr><td>Economic value of fodder production</td><td>9.739 Hac x 6236/- = 60,732/-</td></tr><tr><td></td><td>= 0.61 lakh</td></tr></table>(II) MoEFCC suggested 10% of NPV
10% of NPV = 10% of 68,07,561.00
= Rs 6,80,756/- = 6.81 Lakh
As Per MoEFFCC suggest 10% of NPV is higher than self –Quantified Value That is , 6.81 Lakh > 0.61 Lakh
Thus Loss of animal husbandry Productivity, including loss of Fodder =
Rs 6.81 Lakh</td><td>Rs 6.81 /-</td></tr>
</table>

<table>
<tr>
<td>3.</td>
<td>Cost of human resettlement</td>
<td>To be quantified and expressed in monetary terms on actual cost basis at the time of diversion</td>
<td>
<table>
<tr><th>Sl. No.</th><th>Item of Work</th><th>Amount (in Lakhs)</th></tr>
<tr><td>1</td><td>Cost towards land loss (Including Solatium, Stamp Duty, Interest Rate)</td><td>612.73</td></tr>
<tr><td>2</td><td>Rehabilitation and Resettlement</td><td>164.97</td></tr>
<tr><td>3</td><td>Internal Monitoring of Implementation of the Social Mitigation Plan</td><td>108.00</td></tr>
<tr><td></td><td>Total</td><td>885.70</td></tr>
<tr><td></td><td>Grand Total</td><td>886.00</td></tr>
</table>
</td>
<td>886.00</td>
</tr>
<tr>
<td>4</td>
<td>Loss of public facilities and Administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railway etc) on forest land, or which would require forest land
if these facilities were diverted due to the project.</td>
<td>To be quantified and expressed in monetary terms on actual cost basis at the time of diversion</td>
<td>Calculation : There is no such public Facilities or infrastructure identified . However , loss of public facilities and administrative infrastructure (if any), identified later) will be taken up as a part of the R&R Plan at the time of its finalization .
Total Parameter cost :- NIL</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Possession Value of Forest land to be diverted</td>
<td>30% of environmental cost (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as per a cost components as possession value of forestland as below:- whichever is maximum</td>
<td>Calculation :-
30% of NPV =30% of 68,07,561/-
= 20.43 Lakhs</td>
<td>Rs 20.43/-</td>
</tr>
<tr>
<td>6.</td>
<td>Cost of Suffering to outsees</td>
<td>The social cost of rehabilitation of outsees (In addition to the cost likely to be incurred in providing residence , occupation and</td>
<td>No Outsees
There are no outsees who are being evicted, hence no loss.</td>
<td></td>
</tr>
</table>

		special services as R&R Plan) be worked out as 1.5 times of what outsees should have earned in 2 years had not been shifted		
7	Habitation Fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex , for the the shake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule	50% of NPV **50% of Rs 68.07561 in lacs = 34.03781 in lacs**	**34.04/-**
8	Compensatory afforestation and soil & moisture conservation cost	The Actual cost of Compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value	Estimated cost for compensatory afforestation (asper proposal for diversion of forest land) **19.500 hectare** — **22.42 in lacs** Soil and moisture conservation cost (as per Cost of CAT plan i.e. **1.5% of 13500 Lakh** — **202.50 lacs** Total — **224.92**	**224.92/-**
			GRAND TOTAL	**1240.28/-**

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Projects Const. Division No -1
HPSEB Ltd. Tissa Distt. Chamba (H.P.)

Divisional Forest Officer
Churah Forest Divn. Saloni

Annexure – iii

PARAMETERS FOR EVALUATION OF BENEFIT NOT WITHSTANDING LOSS OF FOREST

<table>
<tr><th>Sr No.</th><th>Parameter</th><th>MoEF Guidelines</th><th>Hydel Project</th><th>Total Benefits (Rs. In Lakhs)</th></tr>
<tr><td>1.</td><td>Increase in productivity attributable to the specific project.</td><td>To be quantified and expressed in monetary terms avoiding double counting</td><td>
<table>
<tr><td>Capacity of Project</td><td>16MW</td></tr>
<tr><td>Net design energy</td><td>69.75 GWH</td></tr>
<tr><td>Rate of saleable net energy</td><td>3.75/Kwh (levelized Tariff)</td></tr>
<tr><td>Percentage of electricity being provided to state free of cost</td><td>13%</td></tr>
<tr><td>Cost of saleable net energy</td><td>=69750000 x 3.75 x 0.13 = 3,40,03,125/- 340.03 Lakhs</td></tr>
<tr><td>For 40 years</td><td>340.03 x 40 =13601.25</td></tr>
</table>
Total Parameter Benefit :-13,601.25 Lakhs
</td><td>13,601.25</td></tr>
<tr><td>2.</td><td>Benefits to Economy due to specific project</td><td>The incremental economic benefit in monetary terms due to the activities attributed to the specific project</td><td>
Calculation:-

Hydel Power is not only one of the cleanest , cheapest and environmentally friendly sources of energy , investment in energy has Several direct and indirect economic benefits. Hydroelectric installation bring electricity, Highways , Industry and commerce to communities , thus developing the economy, expanding access to health and education , and improving the quality of life. We calculate these incremental benefits in terms of addition to output (GSDP) made by this specific project through the concept of the Incremental Capital Output Ratio (ICOR)
<table>
<tr><td>State</td><td>Gross State Value Added</td><td>GSDP</td><td>ICOR</td></tr>
<tr><td>Himachal Pradesh</td><td>42.28</td><td>6.77</td><td>6.24</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Investment</td><td colspan="2">69750000 x 3.75 = 2615.62 Lakhs</td></tr>
<tr><td colspan="2">Increment to Output</td><td colspan="2">Investment / IOCR =2615.62 /6.24 = Rs 419.17 Lakhs</td></tr>
</table>
1% Additional free power for development of panchayat for 40 years :-
</td><td>1667.92</td></tr>
</table>

			=.01 x 69750000 x 3.75 x 40 = 1,046.25 lakhs **=1,046.25 lakhs** **Local Area Development Fund (1.5% of Project Cost)** **=0.015 x 13500 = 202.50 Lakhs** **Total Parameter Benefits in Lakhs** **419.17 + 1,046.25 + 202.50 = 1667.92Lakhs**	
3	Nos. of Population benefited due to specific project	As per detailed project report	Calculation :- The completion of the project will directly benefit the population residing in project affected panchayats as well as the entire population of the state and rest of India through sale of electricity . However, exact quantification of this parameter is not possible as it is time and policy dependent. Total Parameter Benefit Not Valued (NIL)	0.00
4	Economic due to of direct and indirect employment due to the projects	As per detailed project report	On average approximately 175 numbers of persons from affected population to be employed directly/indirectly and approximately 1000000 m-days of temporary employment will be generated during construction of the project for 4 years Monetary equivalent of above benefits considered as 300 lakhs	**300 .00**
5.	Economic benefits due to compensatory afforestation	Benefits from such compensatory afforestation accuring over next 50 years monetized and discounted to the present value should be included as benefits of the compensatory afforestation for benefits of CA the guidelines of the NPV estimation may consulted	<table><tr><td>Land Covered by Compensatory Afforestation</td><td>19.500 Hac (Twice of the forest land diverted)</td></tr><tr><td>Forest Type</td><td>Eco-ClassVI</td></tr><tr><td>NPV</td><td>699000 per hac .</td></tr><tr><td>Total NPV</td><td>699000 X 19.500 =136.31 Lakhs</td></tr><tr><td colspan="2">Total Parameter Benefit = 136.31 Lakh</td></tr></table>	**136.31**
			GRAND TOTAL	**15,705.48/-**

D)

Total Benefit	**15,705.48Lakhs**
Total Cost	**1240.28Lakhs**
Benefit Cost Ratio	**= 15,705.48/1240.28** **= 12.66 /1**

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