

***Summary of ARR & Tariff Filings***

Submitted by

***OHPC***

For

***FY 2014-15***

## SUMMARY OF ARR PROPOSAL OF OHPC FOR FY 2014-15

### Installed Capacity

- The total installed capacity of the various Hydro Stations owned by the Orissa Hydro Power Corporation (OHPC) is projected at 1987 MW for FY 2014-15 including Orissa's share of Machkund.

The installed capacity of HHEP, Burla shall be reduced from 275.5 MW to 200.5 MW consequent upon the retirement of Unit-5 & Unit-6 of 37.5 MW each as per Order of Hon'ble OERC Dtd. 26.12.2012 in Case No. 31/2011 and Order Dtd. 02.07.2013 in Case No. 09/2013 of OHPC.

The installed capacity of different generating stations as reported by OHPC for the FY 2014-15 is given in the table below.

**Table 1: Installed Capacity of OHPC Stations**

Sl. No.	Name of the Power Station	Installed Capacity(MW)			2014-15
		2013-14			
1	Rengali (RHEP)	250.00			250.00
2	Upper Kolab (UKHEP)	320.00			320.00
3	Balimela (BHEP)	510.00			510.00
4	Hirakud (HHEP)	275.50 (01.04.2013 to 14.06.2013)	220.50 (15.06.2013 to 15.10.2013)	200.50 (16.10.2013 to 31.03.2014)	200.50
5	Chiplima (CHEP)	72.00			72.00
6	Upper Indravati (UIHEP)	600.00			600.00
7	Machhakund (30% Orissa Share)	34.50			34.50
<b>Total</b>		<b>2062.00</b> (01.04.2013 to 14.06.2013)	<b>2007.00</b> (15.06.2013 to 15.10.2013)	<b>1987.00</b> (16.10.2013 to 31.03.2014)	<b>1987.00</b>

### Design Energy of OHPC Stations

- The Design Energy (DE) of a Hydro Power Station is an important parameter for determination of tariff. The hydro power station wise design energy proposed by OHPC for consideration during FY 2014-15 ARR and Tariff determination is given in the following table.

**Table 2: Design Energy Proposed for FY 2014-15**

Sl. No.	Name of the Power Station	Design Energy (MU)	Design Energy for Sale (MU)
1	RHEP	525.00	519.75
2	UKHEP	832.00	823.68
3	BHEP	1183.00	1171.17
4	HHEP	517.00	511.83
5	CHEP	357.00	353.43
	Subtotal of Old Power Stations	3414.00	3379.86
6	UIHEP	1962.00	1942.38
<b>Total</b>		<b>5376.00</b>	<b>5322.24</b>

**Reservoir Level**

3. The reservoir level of Power stations reported by OHPC as on 12.11.2013 vis-à-vis on 12.11.2012 is given below:

**Table 3: Reservoir Level for the FY 2013-14**

Sl. No.	Reservoirs	As on 12.11.2012	As on 12.11.2013
1.	Rengali	123.32 (m)	123.84 (m)
2.	Kolab	856.91 (m)	856.38 (m)
3.	Balimela	1508.80 (ft)	1516.10 (ft)
4.	Hirakud	629.67 (ft)	629.89 (ft)
5.	Indravati	639.70 (m)	641.48 (m)

The actual generation of different power stations under OHPC up to 11.11.2013 and anticipated generation up to 31.03.2014 for the FY 2013-14 is given below.

**Table 4: Actual Energy Generation for the FY 2013-14**

Sl. No.	Name of the power stations	Actual generation from 01.04.13 up to 11.11.13 (MU)
1.	RHEP	753.222
2.	UKHEP	625.237
3.	BHEP	1296.4
4.	HHEP	562.057
5.	CHEP	228.805
6.	UIHEP	1856.413
<b>Total</b>		<b>5322.134</b>

**Project Cost**

4. The revalued cost of old power stations under OHPC is Rs.1196.80 Cr as on 01.04.1996 as per the notification no 5207 dtd. 01.04.1996 of Department of Energy, Government of Orissa. The Commission in its Order dated 23.03.2006 at clause no. 5.4 (C) had approved the same. The historical cost of old power station of OHPC is

Rs.479.80 Crores. Further, Hon'ble Commission, in the Order dated 20.03.2008 has approved Rs.1195.42 crores as final capital cost of UIHEP for the purpose of determination of tariff.

The project cost of OHPC power stations reported for computation of ARR for the FY 2014-15 is given in the table below:

**Table 5: Capital Cost proposed for FY 2014-15 (Rs. in Crore)**

Sl. No	Name of the power stations	Historical cost of asset as on 01.04.96	Revalued cost of assets as on 01.04.96	New additions up to 2011-12	Project cost considered for Tariff Calculation based on original cost	Project Cost based on revalued cost	
1	2	3	4	5	6=3+5	7=4+5	
1.	RHEP	91.09	259.01	55.57	146.66	314.58	
2.	UKHEP	108.22	307.87	15.79	124.01	323.66	
3.	BHEP	115.19	334.43	212.42	327.61	546.85	
4.	HHEP	66.68	124.09	204.94	271.62	329.03	
5.	CHEP	91.53	164.31	45.24	136.77	209.55	
	<b>Sub Total</b>	<b>472.71</b>	<b>1189.71</b>	<b>533.96</b>	<b>1006.67</b>	<b>1723.67</b>	
6.	UIHEP	Approved project cost					1194.79

#### **Determination of Annual Fixed Cost for FY 2014-15**

5. Central Electricity Regulatory Commission (Terms and conditions of Tariff) Regulations, 2009 specifies methodology for computation of tariff for supply of electricity from a hydro generating station. The tariff shall comprise capacity charge and energy charge to be shared on 50:50 basis for recovery of annual fixed cost.

The Annual Fixed Cost of a hydro generating station shall consist of the following components:

- (a) Return on Equity (ROE)
- (b) Interest on Loan Capital
- (c) Depreciation
- (d) Operation and Maintenance (O&M) expenses
- (e) Interest on Working Capital

- (a) **Return on Equity (ROE):** Return on equity shall be computed on pre-tax basis at the base rate of 16.5% to be grossed up as per following formula.

$$\text{Rate of pre-tax Return on Equity} = 16.5\% / (1-t)$$

The Income Tax rate of 33.99% including Surcharge (10%) and Cess (3%) as applicable for the FY 2013-14 is considered for computation of RoE for FY 2014-15.

Hence, minimum alternate tax rate payable by OHPC is 33.99%, including Surcharge (10%) and Cess (3%).

Therefore, **Rate of Return on Equity = 15.50% / (1 - 0.3399) = 24.9962%**

The pre-tax RoE @ 24.9962% has been considered for FY 2014-15 for OHPC power stations.

Based on the order of the Hon'ble Commission vide case no. 64/2008 dated 20.03.09 at clause no. 181, the historical cost of assets as on 01.04.96 has not been considered for ROE. The new capital additions made by OHPC from 01.04.96 up to 31.03.2013 has been taken for calculation of ROE with an equity base 25% for HHEP and 30% for all other old power stations.

For UIHEP equity base of 25% on approved project cost minus infirm power cost has been considered for computation of ROE. The details of RoE of OHPC Power Stations for the FY 2014-15 are furnished below:

**Table 6: RoE Proposed for FY 2014-15 (Rs. In Crore)**

Sl. No.	Name of the Power Station	Value of New Capital Addition from 01.04.1996 up to 31.03.2013	Equity Capital Rate	Equity Capital (%)	Proposed for 2014-15 ROE @ 24.9962 %
1.	RHEP	55.57	30	16.671	4.167
2.	UKHEP	15.79	30	4.738	1.184
3.	BHEP	212.42	30	63.725	15.929
4.	HHEP	204.94	25	51.235	12.807
5.	CHEP	45.24	30	13.572	3.392
	Sub Total	<b>533.96</b>		<b>149.941</b>	<b>37.479</b>
6.	UIHEP	1194.79	25	298.698	74.663
<b>Total</b>					<b>112.143</b>

**(b) Interest on Loan:** The loan liabilities on OHPC consist of State Govt. Loan and PFC Loans. The State Govt.

**Status of State Government Loan:** In response to OHPC claim for repayment of Govt. Loan & Normative Loan interest @ 7% Hon'ble Commission in Para 131 of the Tariff Compendium in the Tariff Order of the OHPC for the FY 2013-14 has observed as follows:

“The repayment of Govt. loan to be made phase-wise i.e. firstly the principal repayment will be made and then the interest component will be paid as is the usual practice in case of Govt. Loans. The Commission has analyzed the proposal of OHPC and observed that the principal repayment has already been passed in the tariff of 2010-11, 2011-12 and 2012-13 @ Rs. 30.23 Crore per year. The same amount is allowed in the tariff of 2013-14 towards principal repayment.

The total principal repayment will take 17 years i.e. beginning with 2010-11 and will terminate by 2027-28. Thereafter, the interest payment will be taken in to consideration. In these circumstances for the year 2013-14 an amount of Rs. 30.23 Crore allowed as principal repayment under the head depreciation. No interest component for UIHEP is allowed in the tariff for 2013-14.”

**Status of PFC Loan:** The PFC Loans were obtained in connection with R & M projects of HHEP, Burla and extension project of BHEP, Balimela as shown below:

**Table 7: PFC Loan Outstanding**

Sl. No.	Name of the Units	Outstanding Loan as on 01.04.2014	Loan Repayment for FY 2014-15
1.	Unit # 3 & # 4, Burla	INR 12.99 Crore	INR 6.52 Crore
2.	Unit # 7 & # 8, Balimela	USD 6363000.01	INR 9.60 Crore

**Status of Normative Loan:** Though 9.8% state Govt. loan has been repaid, normative loans of the respective units are still pending. The normative loans of CHEP, RHEP & UKHEP is considered @ 9.8% as per Clause No. 5 of CERC Regulation, 2009. The Normative Loan BHEP, Balimela is considered @ 9.6% for FY 2014-15 based on PFC interest rate applicable to BHEP.

The Unit wise interest on loan and guarantee for FY 2014-15 reported by OHPC is presented in the table below:

**Table 8: Abstract of Interest and Guarantee Commission for FY 2014-15**

Sl. No.	Source of Loan	Interest on Loan and G.C. for FY 2014-15 (Rs. in Crore)						
		RHEP	UKHEP	BHEP	HHEP	CHEP	UIHEP	Total
1.	PFC Loan	-	-	3.21	0.80	-	-	<b>4.01</b>
2.	Normative Loan	3.01	0.46	1.38	0.19	0.88	5.48	<b>11.40</b>
3.	Govt. Loan	-	-	-	-	-	34.85	<b>34.85</b>
4.	G.C.	-	-	0.64	0.44	-	-	<b>1.08</b>
<b>Total</b>		<b>3.01</b>	<b>0.46</b>	<b>5.23</b>	<b>1.44</b>	<b>0.88</b>	<b>40.33</b>	<b>51.35</b>

(c) **Depreciation:** Depreciation is the refund of capital subscribed and is a constant charge against an asset to create a fund for its replacement. It is an important component of annual fixed cost of the generating station.

CERC Tariff regulation 2009-14 has specified rates for calculation of depreciation based on the capital cost admitted by the Commission. OHPC has computed depreciation for the FY 2014-15 @ 2.57% on the historical project cost as on 31.03.2013 plus additional capitalization w. e. f. 01.04.1996 up to 2011-12.

In case of HHEP and BHEP, since the loan repayment is more than computed depreciation @ 2.57%, the actual loan repayment has been considered to meet the

requirement for repayment of principal loan installment. In case of UKHEP, CHEP & RHEP; the depreciation @ 2.57% has been considered.

In case of UIHEP, Hon'ble Commission has allowed recovery of depreciation from balance depreciable value of the project spread equally over the balance life period of the project. Therefore, depreciation of Rs. 30.23 Crs. has been considered for FY 2014-15 for recovery through tariff.

Hence, the depreciation of the OHPC power stations considered for the FY 2014-15 is mentioned as under.

**Table 9: Station wise Depreciation Claimed for FY 2014-15**

Sl. No.	Name of the power station	Depreciation	Remark
1	RHEP	3.77	2.57%
2	UKHEP	3.19	2.57%
3	BHEP	15.17	Equal to loan repayment
4	HHEP	7.01	Equal to loan repayment
5	CHEP	3.51	2.57%
	<b>Sub Total</b>	<b>32.66</b>	
6	UIHEP	30.23	Spread over useful life of the plant
	<b>Grand Total</b>	<b>62.89</b>	

**(d) Operation and Maintenance (O&M) expenses:** As the control period for the FY 2009-10 to FY 2013-14 will complete by 31.03.2014 and Regulation for next block period i.e. FY 2014-15 to FY 2018-19 is yet to come in to force, therefore OHPC has considered the same procedure for the calculation of O & M expenses that was prevailing for the previous block period. Accordingly, OHPC has computed the O & M expenses of different power stations for the FY 2014-15 in line with the CERC (Terms and Conditions of Tariff) Regulations, 2009-14 as follows.

As per Clause 19 (f) (ii) of the said Regulations, normative O & M expenses shall be calculated with escalation of @ 5.72% per annum. Accordingly the average normalized O & M expenses of different power stations under OHPC along with Corporate Office expenses for the FY 2012-13 has been derived and further escalated twice @ 5.72% to arrive at the O & M expenses for the FY 2014-15. Then the Corporate Office expenses amounting to Rs.19.65 Crore have been apportioned to different Units under OHPC based on Installed Capacity and included in the O & M expenses for FY 2014-15. The O & M expenses along with the Arrear salary and terminal liabilities of Corporate Office have been considered in ARR for the FY 2014-15.

**Table 10: O&M Expenses (Including Arrear Salary & Terminal Liabilities) for 2014-15**

Description	RHEP	UKHEP	BHEP	HHEP	CHEP	Subtotal	UIHEP	Total
Total O&M expenses for the FY 2014-15	43.10	33.79	63.30	63.49	14.80	218.47	64.84	<b>283.32</b>
Total arrear salary & terminal liabilities	1.23	1.24	4.37	2.00	0.85	9.68	1.47	<b>11.14</b>
<b>Grand Total</b>	<b>44.33</b>	<b>35.03</b>	<b>67.67</b>	<b>65.49</b>	<b>15.65</b>	<b>228.15</b>	<b>66.31</b>	<b>294.46</b>

(e) **Interest on Working Capital:** As per CERC Tariff Regulation 2009, the basis for calculation of working capital shall include the following:

- (i) Receivables equivalent to two months fixed cost
- (ii) Maintenance spares @ 15% O & M expenses and
- (iii) Operation and maintenance expenses for one month

The rate of interest on working capital considered for is the short-term prime-lending rate of SBI i.e. 14.75%. In accordance with CERC guidelines, the interest on working capital shall be payable on normative basis.

**Table 11: Interest on Working Capital for FY 2014-15 (Rs. In Crore)**

Sl. No.	Description	RHEP	UKHEP	BHEP	HHEP	CHEP	Sub Total	UIHEP	Total
1	Receivables equivalent to two months of fixed cost	9.71	7.02	18.17	15.21	4.10	54.19	36.53	90.73
2	Maintenance spares @ 15% of expenses	6.65	5.25	10.15	9.82	2.35	34.22	9.95	44.17
3	O&M expenses for one month	3.69	2.92	5.64	5.46	1.30	19.01	5.53	24.54
4	Total working capital	20.05	15.19	33.96	30.49	7.75	107.43	52.01	159.43
5	Interest on working capital calculated @ 14.75%	<b>2.96</b>	<b>2.24</b>	<b>5.01</b>	<b>4.50</b>	<b>1.14</b>	<b>15.85</b>	<b>7.67</b>	<b>23.52</b>

**Annual Revenue Requirement (ARR) for the FY 2014-15**

Based on the above parameters the station wise ARR and tariff are calculated for the FY 2014-15 in two alternatives. Station wise value of ARR without up-valuation of assets and; with up-valuation of assets along with present Saleable Design Energy of 5322.45 MU are shown in the table below.



**Table 12: Summary of tariff proposals without & with up-valuation for FY 2014-15**

Details	RHEP	UKHEP	BHEP	HHEP	CHEP	Sub Total	UIHEP	Total
Existing Saleable Design Energy (MU)	519.75	823.68	1171.17	511.83	353.43	3379.86	1942.38	5322.24
(Rs. In Crore)								
Total ARR (without up-valuation)	58.23	42.09	109.00	91.25	24.57	325.15	219.20	544.35
Avg. p/u Tariff (without up-valuation)	<b>112.04</b>	<b>51.11</b>	<b>93.07</b>	<b>178.27</b>	<b>69.53</b>	<b>96.20</b>	<b>112.85</b>	<b>102.28</b>
Total ARR (with up-valuation)	82.57	71.02	134.71	100.67	39.12	428.10	219.20	647.31
Avg. p/u Tariff (with up-valuation)	<b>158.86</b>	<b>86.23</b>	<b>115.03</b>	<b>196.70</b>	<b>110.70</b>	<b>126.66</b>	<b>112.85</b>	<b>121.62</b>

**Application Fee and the Publication Expenses:**

6. As per the CERC tariff regulation 2009, the application filing fee and the expenses incurred on publication of notices may in the discretion of the commission, be allowed to be recovered by the generating company directly from the beneficiaries.

As per the Hon'ble Commission notification no. 1992 on dated 31.08.2009 in the Clause No. 17 Commission has fixed a fee of Rs. 5000/- per MW as application fee for determination of tariff of conventional fuel based plant/ Hydel plants, subject to maximum limit of Rs. 25,00,000/- (Rupees Twenty Five Lakhs Only). Accordingly OHPC has deposited this amount. In addition to the above, OHPC has incurred expenses described as under.

The application fee and publication expenses proposed by OHPC are given below which Hon'ble OERC may approve for FY 2014-15.

**Table 13: Application Fee and the Publication Expenses (Rs. In Lakh)**

Application Fee	Publication Expenses	Total Amount
25.00	1.50	26.50

**Electricity duty on Auxiliary Consumption:**

7. As per the agreed PPA between OHPC and GRIDCO, the taxes and duties including ED on auxiliary consumption etc payable by OHPC to the State Government and other statutory bodies shall be passed on to GRIDCO in the shape of supplementary bill raised by OHPC. GRIDCO will make payment accordingly within 30 days of receipt of bills. Accordingly, ED on Auxiliary consumption of all Hydro Electric Projects to the tune of **Rs.0.54 Crore** is to be reimbursed to OHPC by GRIDCO for the FY 2014-15.

**License Fee for use of water for Generation of Electricity:**

8. As per the gazette notification dated 01.10.2010, OHPC has to pay Rs. 0.01/kWh as License Fee on water used for generation of electricity from all Hydro Electric Project to the tune of Rs. 5.376 Crore is to be reimbursed to OHPC by GRIDCO, based on design energy. OHPC further requested that since, the above calculation is based on design energy of Hydro Projects, the actual generation from OHPC Power Stations may be considered for reimbursement of license fee paid to Govt. of Orissa from GRIDCO.

**SLDC Charges**

9. As per CERC (fees & charges of regional load dispatch centre and other related matters) regulations, 2009 SLDC has to levy and collect annual charges from the users towards system operation charges and market operation charges. Hon'ble Commission has allowed Rs. 1.59 Crore as SLDC charges for the Financial Year 2014-15 to be collected by SLDC from OHPC on monthly basis and OHPC shall get the amount reimbursed from GRIDCO.

Since OHPC hasn't received the ARR & fees & charges of for the FY 2014-15, the previous year fees & charges applicable to OHPC has been escalated @ 5.72%. Hence a final sum of Rs 1.68094 Crore has provisionally been considered as fees and charges payable by OHPC to SLDC for the FY 2014-15.

**ARR and Tariff for Machhkund H.E. (Jt.) Scheme:**

10. Machhkund Hydro Electric Project is a joint scheme of Government of Andhra Pradesh and Government of Orissa with 70% and 30% share with option of Government of Orissa to draw an additional 20% power at a cost of Rs. 0.08 P/U as per the inter state supplementary agreement in the year 1978 between Government of Andhra Pradesh and Government of Orissa.

The proposed tariff of 41.68 Paisa/kWh of Orissa drawl of Machhkund power for FY 2014-15 has been computed on cost reimbursement basis. The tariff proposed by OHPC is based on assumption that GRIDCO will draw power up to 50% of design energy of Machhkund equivalent to 262.50 MU.

**Table 14: Proposed Tariff for Machhkund H.E. (J) Scheme for the FY 2014-15**

Installed Capacity (MW)	114.50
Orissa share as per Original Agreement (30%)	34.50 MW
Net. Energy for sharing between Andhra Pradesh & Orissa	525.00 MU
Expected Energy Drawl by Orissa (50%)	262.50 MU
Energy Drawl of 30% of Orissa share	157.50 MU
Purchase of Power up to 20% as per Supplementary Agreement	105.00 MU
O&M Escalation factor @ 5.72% per year for 2 years	1.1177
	(Rs. in Crore)
1. O&M Exp. (Orissa share of Actual O&M Exp. for FY 2012-13)	9.038
2. O&M Exp for FY 2014-15	10.1017
3. Power purchase cost of additional 20% above 30% Orissa Share	0.84
4. Total Annual Expenditure (2 +3)	10.942
5. Tariff (Paise/Kwh)	41.68

**Foreign Exchange Fluctuation Loss of PFC Loan of BHEP**

11. Due to variation in Foreign Exchange Rate OHPC has incurred a loss of Rs. 0.76 Crore towards payment of interest and Rs. 4.64 Crore towards principal repayment on the PFC loan of BHEP from FY 2007-08 to FY 2013-14. As per clause no 41 (Recovery of cost of Hedging and Foreign Exchange Rate Variation) of CERC regulation 2009, recovery of cost of hedging and foreign exchange rate variation shall be made directly by the generating company from the beneficiaries. Hence the Hon'ble Commission may approve the same to be reimbursed by GRIDCO.

**Reimbursement of Contribution Made to ERPC**

12. OHPC is contributing towards ERPC establishment fund & ERPC fund from the FY 2006-07 onwards as per their demand note. So far, OHPC has never claimed this amount as a reimbursement from GRIDCO. Hence, Hon'ble Commission may approve a total reimbursement claim for an amount of Rs. 1.2546 Crore towards contribution from the FY 2006-07 to FY 2014-15 from GRIDCO.

**Two-Part Tariff**

13. As per Central Electricity Regulatory Commission (Terms and conditions of Tariff) Regulation 2009, the annual fixed cost of a power station shall be recovered through capacity charge (inclusive of incentives) and energy charge to be shared on a 50:50 basis.

- (a) The Capacity Charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be

$$\text{Capacity Charge (CC)} = \text{AFC} \times 0.5 \times \text{NDM} / \text{NDY} \times \text{PAFM} / \text{NAPAF} \text{ in Rs.}$$

Where

AFC = Annual Fixed Cost specified for the year in Rs.

NAPAF = Normative Annual Plant Availability Factor in %

NDM = Number of Days in the month

NDY = Number of Days in the year

PAFM = Plant Availability Factor achieved during the month in %

The PAFM shall be computed in accordance with the following formula:

$$\text{PAFM} = 10000 \times \frac{\sum_{i=1}^N \text{DC}_i}{\{N \times \text{IC} \times (100 - \text{Aux})\}} \%$$

Where

Aux = Normative Auxiliary Energy Consumption in %

N = Number of Days in the month

IC = Installed Capacity in MW of the complete generating station

DC<sub>i</sub> = Declared Capacity (in Ex-bus MW) for the i<sup>th</sup> day of the month which the station can deliver for at least (3) hours, as certified by the nodal load dispatch centre after the day is over

- (b) The Energy Charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary, during the calendar month on ex-power plant basis at the computed energy charge rate.

Total energy charge payable to the generating company for a month shall be:

{(Energy Charge Rate in Rupees per kWh) x (Schedule Energy (x-bus)) for the month in kWh}

- (c) Energy Charge Rate (ECR) in Rupees per kWh on ex-bus plant basis for a hydro generating station shall be determined up to three decimal places based on the following formula, subject provisions in clause (6) and (7) of Schedule - 22 of CERC Tariff Regulations, 2009.

$$\text{ECR} = \text{AFC} \times 0.5 \times 10 / \{\text{DE} \times (100 - \text{Aux}) \times 100\}$$

Where,

DE = Annual Design Energy specified for the hydro generating station in MWh, subject to provisions in Clause - (6) of Schedule - 22 of CERC tariff Regulations, 2009.

As per the CERC Tariff Regulation station wise capacity charge and energy charge proposed by OHPC for FY 2014-15 is presented in the table below:

**Table 15: Capacity Charge and Energy Charge of power stations (without considering Up-valuation of asset)**

Name of the Power Stations	Annual Fixed Cost (Rs. in Crore)	Capacity Charge (Rs. in Crore)	Energy Charge (Rs. in Crore)	Design Energy (MU)	Energy Charge Rate (p/u)
RHEP	58.23	29.115	29.115	519.75	56.017
UKHEP	42.09	21.045	21.045	823.68	25.550
BHEP	109.00	54.500	54.500	1171.17	46.535
HHEP	91.25	45.625	45.625	511.83	89.141
CHEP	24.57	12.285	12.285	353.43	34.759
UIHEP	219.20	109.600	109.600	1942.38	56.426

**Table 16: Capacity Charge and Energy Charge of power stations (with considering Up-valuation of asset)**

Name of the Power Stations	Annual Fixed Cost (Rs. in Crore)	Capacity Charge (Rs. in Crore)	Energy Charge (Rs. in Crore)	Design Energy (MU)	Energy Charge Rate (p/u)
RHEP	82.57	41.285	41.285	519.75	79.432
UKHEP	71.02	35.51	35.51	823.68	43.111
BHEP	134.71	67.355	67.355	1171.17	57.511
HHEP	100.67	50.335	50.335	511.83	98.343
CHEP	39.12	19.560	19.560	353.43	55.343
UIHEP	219.20	109.60	109.60	1942.38	56.426

**Normative Plant Availability Factor (NAPAF)**

14. Hon'ble Commission in the order dated 02.11.2010 vide case no. 65/2010 has approved the NAPAF of OHPC Stations for the control period from 01.04.2009 to 31.03.2014 as given in the table below. OHPC proposes NAPAF of the different power station for the next block period (i.e. FY 2014-15 to FY 2018-19) as follows:

**Table 17: Proposed NAPAF for next Block Period (FY 2014-15 to FY 2018-19)**

Name of Power Stations	HHEP	CHEP	BHEP	RHEP	UKHEP	UIHEP
NAPAF (%)	73	70	80	70	85	88

**Compensation Claim towards Hydrology Failure & towards Restriction in Generation pending before Hon'ble Commission:**

15. OHPC in its original Tariff Application for the FY 2013-14 had a submission that loss of Energy Charges for the FY 2009-10, 2010-11 and FY 2011-12 amounting Rs. 52.23 Crore, Rs. 22.69 Crore and Rs. 36.00 Crore respectively may be considered as pass on in tariff in five equal installments.

Hon'ble Commission may simultaneously hear the review petition of OHPC filed on Dtd. 12.06.2013 and make provision to compensate Rs. 110.92 Crore to OHPC towards Hydrology Failure from FY 2009-10 to FY 2011-12 and also compensate Rs. 48.73 Crore on account of restriction in generation during the FY 2012-13.

**Prayer**

- 16.** OHPC pray before the Hon'ble Commission to kindly approve Rs. 647.31 Crore ARR for the FY 2014-15 at an Average Tariff @ 121.62 Paisa/kWh considering Up-valuation of assets with present Saleable Design Energy of 5322.24 MU, allow Miscellaneous reimbursement of Rs. 15.1059 Crore and make provision for realization of Rs. 110.92 Crore towards Hydrology Failure from the FY 2009-10 to FY 2011-12 & Realization of Rs. 48.73 Crore towards Restriction in Generation during the FY 2012-13.