



Truing up of Tariff for 2x110 MW Paricha TPS for the Period 2014-15 to FY 2018-19 for UPRVUNL



Uttar Pradesh Electricity Regulatory Commission
Lucknow

**Petition No. 1520 of 2019
&
Petition No. 1723 of 2021**

**Filed by
Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL)**

**IN THE MATTER OF:
TRUING UP OF TARIFF FOR 2X110 MW PARICHHA (FY 2014-15 TO FY
2018-19)**

Lucknow

Dated: 05.09.2022



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By

Dr



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Petition Nos. 1520 of 2019 & 1723 of 2021

Before

UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION

LUCKNOW

Date of Order:

Present:

Hon'ble Shri Raj Pratap Singh, Chairman
Hon'ble Shri Kaushal Kishore Sharma, Member
Hon'ble Shri Vinod Kumar Srivastava, Member (Law)

IN THE MATTER OF: PARICHHA TPS PETITION FOR DETERMINATION OF FINAL
TRUE-UP OF FY 2014-15, FY 2015-16, FY 2016-17, FY
2017-18 and FY 2018-19.

M/s Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL)
SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW.

.....Petitioner

Vs

1. Uttar Pradesh Power Corporation Limited (UPPCL)
SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW
2. Madhyanchal Vidyut Vitran Nigam Ltd.
4-A, Gokhale Marg, Lucknow - 226001
3. Poorvanchal Vidyut Vitran Nigam Ltd.
Bikharipur, 132KV Sub-Station, Poorvanchal Vidyut Bhawan, P. O. Diesel
Locomotive Works, Varanasi - 221004
4. Paschimanchal Vidyut Vitran Nigam Ltd.
Victoria Park, Meerut-250001
5. Dakshinanchal Vidyut Vitran Nigam Ltd.
Urja Bhawan, 220KV Sub-Station Mathura bypass Road, Agra - 282007
6. Kanpur Electricity Supply Co. Ltd.
KESA House, 14/71, Civil Lines, Kanpur - 208001
7. Noida Power Corporation Limited
Electrical Sub-station, Knowledge Park-IV, Greater Noida, 201310

.....Respondent

The following were present:



1. Shri Avikshit Singh, CE(Comm), UPRVUNL
2. Shri. JPS Gangwar, C.E PPA, UPPCL
3. Ms. Puja Priyadarshini, Advocate UPPCL
4. Shri. Nived Veerapaneni, Advocate, UPPCL

ORDER

(Date of Hearing- 16.03.2021)

1. BACKGROUND & RECORD OF PROCEEDINGS

1.1 Background

1.1.1 Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (hereinafter referred to as the 'UPRVUNL' or the 'Petitioner'), is a company incorporated on 25th August 1980 with the principal object of generating electricity. UPRVUNL is a wholly owned company of the Government of Uttar Pradesh. Pursuant to the Uttar Pradesh Electricity Reforms Act, 1999 and the statutory transfer scheme notified there under, the Petitioner was vested with the activities of generation and sale of electricity from thermal generation assets in the State of Uttar Pradesh. All the electricity generated by the Petitioner is sold to Uttar Pradesh Power Corporation Limited (hereinafter referred to as the 'UPPCL'), which under the aforementioned transfer scheme is vested with the transmission and distribution of electricity in the State of Uttar Pradesh.

1.1.2 UPRVUNL owns, maintains, and operates the following generating stations

Table 1: Present Installed Capacity and Derated capacity of UPRVUNL generating stations

S No	Thermal Power Station	Unit No.	Installed Capacity	Derated Capacity	Date of Commercial Operation
1	Anpara - A	1	210 MW	210 MW	01-Jan-87
2		2	210 MW	210 MW	01-Aug-87
3		3	210 MW	210 MW	01-Apr-89
4	Anpara - B	4	500 MW	500 MW	01-Mar-94
5		5	500 MW	500 MW	01-Oct-94
6	Obra - A	1	50 MW	50 MW	15-Aug-67
7		2	50 MW	50 MW	11-Mar-68
8		3	50 MW	Nil	13-Oct-68
9		4	50 MW	Nil	16-Jul-69
10		5	50 MW	Nil	30-Jul-71
11		6	100 MW	Nil	04-Oct-73
12		7	100 MW	94 MW	14-Dec-74
13		8	100 MW	94 MW	01-Jan-76



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14		9	200 MW	200 MW	15-Mar-80
15		10	200 MW	200 MW	06-Mar-79
16	Obra - B	11	200 MW	200 MW	14-Mar-78
17		12	200 MW	200 MW	29-May-81
18		13	200 MW	200 MW	29-Jul-82
19		1	32 MW	Nil	NA
20		2	32 MW	Nil	NA
21	Panki	3	110 MW	105 MW	29-Jan-77
22		4	110 MW	105 MW	29-May-77
23		1	50 MW	Nil	21-Apr-68
24		2	50 MW	Nil	23-Jan-69
25		3	55 MW	Nil	Mar-72
26	Harduaganj	4	55 MW	Nil	18-Sep-72
27		5	60 MW	60 MW	14-May-77
28		6	60 MW	Nil	26-Oct-77
29		7	110 MW	105 MW	Aug-78
30	Harduaganj	8	250 MW	250 MW	01-Feb-12
31	Extn.	9	250 MW	250 MW	10-Oct-13
32	Parichha	1	110 MW	110 MW	01-Oct-85
33		2	110 MW	110 MW	25-Feb-85
34	Parichha Extn	3	210 MW	210 MW	24-Nov-06
35		4	210 MW	210 MW	01-Dec-07
36	Parichha	5	250 MW	250 MW	17-Jul-12
37	Extn. Stage 2	6	250 MW	250 MW	18-Apr-13
38	Anpara D	6	500 MW	500 MW	08-May-2016
39		7	500 MW	500 MW	18-Oct-2016

- Obra U#6 was deleted from capacity w.e.f. 12.01.2011, U#1 and 2 were deleted from capacity w.e.f 01.07.2017 and U8 was deleted form capacity w.e.f 26.02.2011
- Harduaganj U#3 was deleted from capacity w.e.f. 20.11.10
- Panki U#3 and 4 were deleted from capacity w.e.f 16.02.2018
- Harduaganj U#5 was deleted from capacity w.e.f 12.01.2017

1.2 Regulatory Framework

1.2.1 Section 61 of the Electricity Act, 2003 deals with Tariff Regulations. Section 62 (1) of the Act provides that the Appropriate Commission shall determine the tariff in accordance with the provisions of the Act, inter-alia, for supply of electricity by a generating company to a distribution licensee. Further, in accordance with Section 86 (1) (a) of the Act, the Commission shall determine the tariff of generation of power at stations owned by the UPRVUNL. Section 86 (1) (b) further mandates the Commission to regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generating companies or licensees.



- 1.2.2 Accordingly, the Commission issued the first tariff regulations being the Uttar Pradesh Electricity Regulatory Commission (Terms and Conditions of Generation Tariff) Regulations, 2004 which were applicable for FY 2005-06 to 2007-08. Such regulations were extended for FY 2008-09 as well. The Commission had approved tariff orders for the period FY 2005-06 to 2007-08 dated 26th March 2007 and for FY 2008-09 dated 6th March 2009 based on the framework of the aforementioned regulations.
- 1.2.3 The Commission notified the Uttar Pradesh Electricity Regulatory Commission (Terms and Conditions of Generation Tariff) Regulations, 2009 for the control period of FY 2009-10 to 2013-14 wherein the vintage of certain power stations of the Petitioner namely Obra A Thermal Power Station (TPS), Obra B TPS, Panki TPS, Harduaganj TPS and Parichha TPS, were recognised and certain relaxations towards operating norms for these stations were provided.
- 1.2.4 Subsequently, the Commission notified the Uttar Pradesh Electricity Regulatory Commission (Terms and Conditions of Generation Tariff) Regulations, 2014 (hereinafter referred to as the 'Regulations') which came into effect from 01.04.2014 and were for the control period of FY 2014-15 to 2018-19. In continuation with the previous MYT Regulations, 2009 vintage of certain power stations of the Petitioner namely Obra A Thermal Power Station (TPS), Obra B TPS, Panki TPS, Harduaganj TPS and Parichha TPS were continued and relaxed operating norms in respect of such stations were accordingly provided.

1.3 UPRVUNL Petition Seeking Truing-Up of Capital Expenditure and Tariff for the Control Period (FY 2014-15 To FY 2018-19)

1.3.1 Petition No. 1520/2019

- 1.3.1.1 This combined Petition for all the power stations has been filed by the Petitioner in respect of final True-up petition for the period FY 2014-15 to FY 2018-19 based on audited accounts, along with copy of audited accounts for the years FY 2014-15 up to FY 2018-19 and sought cumulative amount of Rs. 1719.03 Crores.

The Petitioner has submitted five additional submissions as detailed below on various common / specific issues:

Additional submission 1 dated 03.01.2020	The Petitioner submitted there were some typographical errors and slippages and hence remediated the same.
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Additional submission 2 dated 20.01.2020	The Petitioner submitted that based on the Government Order dard July 31, 2017, and subsequent adoption of the same by Board of Directors on April 09, 2018 of the Petitioners, the Petitioner has billed the RoE at 2% for FY 2017-18 and FY 2018-19 and rest of 13.5% has been foregone to take its advantage in Merit Order Dispatch schedule as per the Commission's Order dated June 21, 2016 against Petition No. 1070 of 2015. The Petitioner submitted that the RoE component would be adjusted by UPRVUNL with beneficiary only 2% but requested to approve the capacity charges with RoE @ 15.5% for the control period.
Additional submission 3 dated 10.06.2020	The Petition submitted intimation of profit sharing with UPPCL as per UPERC (Terms and Conditions of Generation Tariff) Regulations 2014 Clause (6). UPRVUNL has done a profit center analysis of each of the station for F.Y. 2014-15 to 2018-19. In this analysis the difference of billing and actual has been computed both for fixed cost and variable cost. UPPCL has adjusted Rs. 200.17 Crores in the running bills and therefore UPRVUNL has claimed Rs. 200.97 Crores as profit share of UPPCL.
Additional submission 4 dated 14.10.2020	The Petitioner submitted details of Additional capitalization i. Additional capitalization in Parichha 2x250 MW TPS for purchase of Mandatory spares for additional cost approx. Rs. 5.15 Crore and ii. Approval of revised R&M cost of Harduaganj Unit No. 7 from Rs. 392 Crore to Rs. 475.97 Crore due to increase in IDC.
Additional submission 5 dated 01.12.2020	The Petition submitted information and Prudence check of statutory charges as per UPERC (Terms and Conditions of Generation Tariff) Regulations, 2014.

1.3.1.2 The Commission during the hearing dated 16.03.2021 noted that the additional submissions made are admittedly material change to the original Petition and that the Petitioner has raised several issues related to non-payment and income tax in the combined Petition. The Commission vide its order dated 10.05.21 decided as follows:

- (a) The issue raised regarding non-payment by UPPCL would be dealt under Section 86(1)(f) of the Electricity Act, 2003 separately after the finalisation of True Up. UPRVUNL is required to file separate Petition.



- (b) The Commission directed that the issue related to Income Tax shall be dealt in the True Up.
- (c) A consolidated single Petition has been filed for all generating stations though Petition fee has been paid for all generating stations. The Petitioner has made five additional submissions, the last one being in Dec' 20, covering common / specific issue.
- (d) The Petitioner should take a conscious decision and come clearly on the issue of RoE@2% for MOD Purpose or 15.5% as per UPERC Generation Tariff Regulations, 2014.

1.3.1.3 The Commission directed UPRVUNL to file separate Petition for each generating station covering Common / specific issue covered through additional submissions for each generating station within four weeks. The Commission subsequently further allowed extension of six weeks owing to wide spread of Covid-19. Accordingly, UPRVUNL has submitted separate Petitions along with soft copy of the audited account of UPRVUNL and cost audit report for the period FY 2014-15 to FY 2018-19.

1.3.2 Petition No. 1723/2021

1.3.2.1 UPRVUNL filed instant Petition No. 1723 of 2021 under Regulation 6 of UPERC (Terms and Conditions for Determination of Generation Tariff) Regulations, 2014 read with Section 61, Section 62 and Section 86 of Electricity Act, 2003 seeking approval of truing up of Capital Expenditure and Tariff for the Control Period FY 2014-15 to FY 2018-19 on May 24, 2021. UPRVUNL has submitted the following True-up summary for FY 2014-15 to 18-19 and other related issues for consideration:

Table 2: UPRVUNL True-up Summary for FY 2014-15 to FY 2018-19– Parichha

Figures in Rs Crore

Particulars	2014-15		2015-16		2016-17		2017-18		2018-19	
	Order	Actual	Order	Actual	Order	Actual	Order	Actual	Order	Actual
Depreciation	15.92	17.89	15.92	22.64	15.92	25.6	15.92	25.97	15.92	26.27
Interest on Long Term Loans	5.78	7.85	3.78	12.05	1.79	13.36	0.4	10.98	-	8.49
Return on Equity	12.25	13.82	12.25	17.62	12.25	19.95	12.25	20.25	12.25	20.54
IoWC	28.18	28.18	28.37	28.37	28.46	28.46	28.62	28.62	28.81	28.81
O&M	70.2	70.2	73.13	73.13	76.14	76.14	79.27	79.27	82.46	82.46
Special Allowance	-	-	-	-	-	-	-	-	-	-
Total	132.33	137.94	133.45	153.81	134.56	163.51	136.46	165.09	139.44	166.57



1.3.3 Other related issues

1.3.3.1 Reimbursement of Actual Income Tax

UPRVUNL had paid Income Tax amounting to Rs. 192.65 Crore for FY 2016-17, 35.34 Crore for FY 2017-18 and 36.34 Crore for FY 2018-19. These taxes arise on account of the revenues accrued to the Petitioner from the invoices raised to UPPCL based on the UPERC Tariff order on dated 29th April 2016 & 18th January 2017. The Clause-11G of Tariff order dated 18th January 2017 which provides as below:

"1.98 The Commission found the prayer reasonable and decided that the following shall be added in clause "11" of UPRVUNL's Tariff Order dated 29.04.2016,

(G) Recovery of Statutory Charges and Tax on income etc.

*In addition to the above tariff UPRVUNL is allowed to recover the payment of statutory charges like water cess, cost of water, payment to Pollution Control Board, rates and taxes, FBT and Regulatory Fee paid to the Commission and **taxes on income etc.**, on production of details of **actual payment made and duly supported with the certificate of the Statutory Auditors.....**"*

However, UPPCL has verified Income Tax amount of Rs. 169.61 crore for FY 2016-17, Rs. 21.75 crore for FY 2017-18 and Rs. 24.09 crore for FY 2018-19. Total gap between amount claimed by UPRVUNL and verified by UPPCL is tune to Rs. 48.73 crore. UPPCL ought to reimburse the tax amount in actuals.

1.3.3.2 Reimbursement of UPSLDC & NRPC Fee

UPRVUNL has paid UPSLDC & NRPC fees towards annual charges during past years but has never been claimed by the UPRVUNL due to non-provision in the Tariff Order. Therefore, the Commission is requested to grant for reimbursement of the UPSLDC and NRPC fees paid in actual by UPRVUNL.

1.3.3.3 Interest on Income Tax

The Tariff Regulations issued by the Commission provides that tax on the income streams of the generating company from its core business shall be computed as an expense and shall be permitted to be recovered from the beneficiaries. Delay in payments by UPPCL affects the capacity of UPRVUNL to make timely payments to statutory authorities in the form of tax etc. Non-payment of taxes to the authorities incurs levy of interest charges on such dues to the authorities. But UPRVUNL has in past also paid interest on Income Tax due to such delay caused by untimely payments from UPPCL. UPPCL is not paying interest on Income Tax.

1.3.3.4 Intimation of Profit sharing with UPPCL as per UPERC (Terms and Conditions of Generation Tariff) Regulations 2014 Clause 6 (6)

UPRVUNL has shared its profits with UPPCL in accordance with the profit-sharing mechanism specified as per UPERC (Terms and Conditions of Generation Tariff) Regulations 2014 clause 6 (6).; the same is reproduced below:

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"(6) The financial gains by a generating company on account of controllable parameters shall be shared between generating company and the beneficiaries. The financial gains computed as per following formulae in case of generating station on account of operational parameters contained in Clause (4) (a) to (c) above shall be shared in the ratio of 80:20 between generating company and the beneficiaries:

$$\text{Net Gain} = (\text{ECRN} - \text{ECRA}) \times \text{Scheduled Generation}$$

Where,

ECRN - Normative Energy Charge Rate computed on the basis of norms specified/approved for Gross Station Heat Rate, Auxiliary Consumption and Secondary Fuel Oil Consumption.

ECRA - Actual Energy Charge Rate computed on the basis of actual Gross Station Heat Rate, Auxiliary Consumption and Secondary Fuel Oil Consumption for the month.

Provided that in case of financial gains on account of parameters contained in Clause (4)(d) above shall be shared in accordance with Clause (i) (e) of Regulation 25 & Regulation 44 of these regulations."

On the basis of the 'Profit Centre Analysis', UPPCL computed the profit-sharing amount of Rs. 200.97 Crore and UPPCL deducted the profit-sharing amount from the running bills raised by UPRVUNL. The profit shared between UPRVUNL and UPPCL for Rs. 200.97 Crore is summarized as follows:

**Table 3: UPRVUNL Summary of Profit Sharing for the Period
FY 2014-15 to FY 2018-19**

Figures in Rs. Crore

S No	TPS Name		2014-15	2015-16	2016-17	2017-18	2018-19
1	Anpara A	Billing	640.82	743.12	751.42	670.16	693.81
		Actual	679.77	715.70	748.30	705.41	714.17
		Profit	-	27.42	3.12	-	-
2	Anpara B	Billing	932.63	1,380.53	1,462.11	1,124.42	1,119.88
		Actual	838.15	1,169.93	1,380.09	1,050.68	1,117.92
		Profit	94.48	210.60	82.02	73.74	1.95
3	Obra A	Billing	90.40	64.05	96.52	9.28	-
		Actual	107.99	94.79	43.38	13.49	-
		Profit	-	-	53.14	-	-
4	Obra B	Billing	625.76	655.78	811.24	835.74	603.12
		Actual	583.51	670.85	854.37	790.82	632.59
		Profit	42.25	-	-	44.92	-
5	Panki	Billing	368.21	201.47	265.35	119.21	-
		Actual	389.20	226.36	347.80	172.68	-
		Profit	-	-	-	-	-
6	Harduaganj	Billing	36.88	154.13	200.05	108.14	70.70
		Actual	71.58	213.34	203.04	95.88	75.76
		Profit	-	-	-	12.26	-
7	Harduaganj Extn	Billing	955.88	925.84	1,006.58	1,025.09	821.56
		Actual	1,115.48	1,066.99	1,057.31	978.16	836.73
		Profit	-	-	-	46.93	-
8	Parichha	Billing	121.54	287.97	175.35	96.75	49.44
		Actual	152.52	327.58	217.23	110.75	61.64
		Profit	-	-	-	-	-
9	Parichha Extn	Billing	674.66	909.14	930.26	807.10	579.50
		Actual	789.67	949.15	926.89	799.50	580.23
		Profit	-	-	3.37	7.60	-



Truing up of Tariff for 2x110 MW Paricha TPS for the Period 2014-15 to FY 2018-19 for UPRVUNL

S No	TPS Name		2014-15	2015-16	2016-17	2017-18	2018-19
10	Parichha Extn Stage II	Billing	986.77	1,041.83	1,108.99	946.21	809.07
		Actual	1,034.33	1,024.76	1,076.19	919.20	797.25
		Profit	-	17.08	32.80	27.01	11.81
11	Anpara D	Billing	-	-	727.30	834.03	1,186.00
		Actual	-	-	639.93	811.74	1,083.30
		Profit	-	-	87.37	22.29	102.70
Grand Total (Profit)			136.73	255.10	261.82	234.75	116.47
Profit Share of UPPCL@20%			27.35	51.02	52.36	46.95	23.29
Total Profit Share to UPPCL for FY 2014-15 to FY 2018-19 (Rs Crore)			200.97				

1.3.4 Prudence Check of Statutory Charges as per UPERC (Terms and Conditions of Generation Tariff) Regulations 2014 Clause 25 (iv)(C) for the period FY 2014-15 to FY 2018-19.

UPRVUNL has submitted information for Prudence Check of Statutory Charges as per UPERC (Terms and Conditions of Generation Tariff) Regulations 2014 clause 25(iv)(c); the same clause is reproduced below:

"(iv) Operation and Maintenance expenses

(a).....

(b).....

(c) The expenses on regulatory fee, payment to pollution control board, impact of pay revision, capital spares, cost of water and water cess shall be paid additionally at actuals subject to prudence check. The details regarding the same shall be furnished along with the petition.

The Tariff Order dated 18.01.2017, Clause- 11G is also reproduced below:

(G) Recovery of Statutory Charges and Tax on income etc.

In addition to the above tariff UPRVUNL is allowed to recover the payment of statutory charges like water cess, cost of water, payment to Pollution Control Board, rates and taxes, FBT and Regulatory Fee paid to the Commission and taxes on income etc., on production of details of actual payment made and duly supported with the certificate of the Statutory Auditors....."

An amount of Rs. 36.48 Crore and Rs. 12.25 Crore totaling Rs. 48.73 Crore has not been verified by the UPPCL on account of Income Tax head. Further, amount of Rs. 7.38 crore on account of Interest on income tax has also not verified by the UPPCL.

1.3.5 UPRVUNL has prayed the following:

(a) The Commission is requested to Accept this Petition for true-up of additional capitalization and associated tariff components for the financial year 2014-15 to 2018-19



- (b) The Commission is requested to Allow recovery of the additional claim generating out of the true up from the beneficiaries in line with the provision of the Regulations or in any manner that the Hon'ble Commission deems appropriate.
- (c) The Commission is requested to Permit recovery of expenses understated/ not considered in this Petition subsequent to the submission of this petition.
- (d) The Commission is requested to direct the UPPCL to reimburse the actual amount on account of Income Tax and Interest on Income Tax to UPRVUNL.
- (e) The Commission is requested to direct the UPPCL to reimburse the UPSLDC and NRPC Charges to UPRVUNL.
- (f) The Commission is requested to Condone any inadvertent omissions / errors / short comings and permit the applicant to add /change /modify / alter this Petition and make further submissions as may be required at later stages
- (g) The Commission is requested to Pass such orders as Hon'ble Commission may deem fit and proper and necessary in the facts and circumstances of the case, to grant relief to the Petitioner.

1.4 UPPCL Counter Affidavit

1.4.1 Counter affidavit dated 02.07.21 on behalf of UPPCL against re-submission of true up petition of 2x110 MW Parichha TPS of UPRVUNL for FY 14-15 to 18-19

- i. Delay in filing true-up petition & liability to pay interest: The Commission may not allow UPRVUNL's claim of interest for the period of delay.
- ii. Truing up of tariff basis availability: The Commission may carry out comparing actual availability of plant Vs. target given by the Commission of the year.
- iii. UPRVUNL is claiming additional capitalisation to the tune of Rs. 181.65 crores claimed to have been incurred during the Control Period. The MYT petition was filed by UPRVUNL only on 06.07.2015 and the same was disposed of by this Commission by way of the MYT Order. UPRVUNL failed to disclose that it had incurred additional capital expenditure of Rs. 67.69 crores during FY 2014-15 and Rs.95.41 crores during FY 2015-16. The additional capitalization has occurred after the cut-off date and, therefore,



UPRVUNL is required to explain and justify its claims under Regulation 22(2) of the Tariff Regulations 2014.

iv. The Commission in view of the fact that the Unit 1 machine can be utilized as per MOD order at the time of need, approved the R&M of Boiler, Turbine & Generator ("BTG") of Unit 1 of the Parichha TPS and directed to file fresh petition for determination of tariff / true up. The said petition has not been filed as yet, therefore any liability for payment of interest should not be passed on UPPCL. The R&M of Unit 2 has been completed and the commission decided that the cost shall be decided at the time of True-up.

v. The Commission order dated 29.10.2013 in Petition no. 820 of 2012 held capital investment of R&M would be serviced in ratio of 76:24.

vi. Incomplete forms and details are submitted by UPRVUNL with respect to the following:

Form 9A – Statement of Additional Capitalization after COD

Form 9Bi – Details of assets De-capitalized

Form 9E – Statement of Capital Cost

vii. UPRVUNL was required to submit the following forms

Form 8 – Details of allocation of corporate loans to various projects

Form 10 – Financing of additional capitalization

viii. Depreciation:

Applying the Regulation 25(ii) of the Tariff Regulations 2014, this Commission had worked out the maximum depreciation allowable to Parichha TPS as Rs. 271.44 crores which is 90% of Rs. 301.60 crores. Since the accumulated depreciation allowed till the end of FY 2018-19 was Rs. 251.81 crores only, which is less than Rs. 271.44 crores, this Commission allowed full depreciation as claimed by UPRVUNL. Any additional depreciation (which is over and above the depreciation amounts already approved by this Commission on a provisional basis under the MYT Order) can be considered only if any additional capitalization is allowed by this Commission subject to prudence check.

ix. Interest on Loan:

(a) The additional capital expenditure proposed to be capitalized by UPRVUNL has to be subjected to prudence check and admitted by this Hon'ble Commission.

(b) UPRVUNL is required to place on record details pertaining to actual debt and equity employed by it to finance the additional capital expenditure.



- (c) Based on the actual data submitted by UPRVUNL, loan amount has to be worked out as per Regulation 24 of the Tariff Regulations 2014.
 - (d) In terms of Regulation 25(i)(a) the interest on loan capital has to be computed loan wise on the above loans.
 - (e) Repayment has to be considered equal to depreciation allowed for the year.
 - (f) Finally, the rate of the interest should be the weighted average rate of interest calculated on the basis of actual loans at the beginning of each year and shall be adjusted based on actual loan each year accordingly.
 - (g) If there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average of interest shall be considered.
- x. Return on Equity: UPRVUNL has considered ROE @ 15.5% whereas as per government order dated 31.07.2017, adopted by board of directors of UPRVUNL on 09.04.2018, ROE has billed @ 2% for 2017-18-19. The Commission vide order dated 21.06.2016 in Petition no. 1070 of 2015 had allowed generators to have the option of foregoing some part of fixed cost for which credit shall be given in the variable cost to revise their position in MOD cost.
- xi. Operation & Maintenance Expenses:
Regulation 25(iv) of the Tariff Regulations 2014 stipulates that either the amount mentioned under the regulations or actual expenditure, whichever is lesser, will be allowed as O&M expenses for a particular year. In case of partial utilization, unutilized amount may be allowed to meet increased O&M expenses in subsequent years. Applying Regulation 25(iv)(ii) of the Tariff Regulations 2014 Rs. 371.63 crores should be allowed as O&M expenses for UPRVUNL against the claimed amount of Rs. 381.19 crores.
- xii. Interest on Working Capital:
Regulation 25(v) of the Tariff Regulations 2014 prescribes detailed guidelines and methodology for computing both working capital and IoWC. Particularly, the requisite workings are to be furnished under Form 13B which deals with calculation of IoWC.
- xiii. Claims of Income Tax Reimbursement:
UPRVUNL has claimed that it has paid income tax of Rs. 192.65 crores for FY 2016-17, 35.34 crores for FY 2017-18 and 36.34 crores for FY 2018-19. Applying the above quoted and highlighted regulation, the maximum amount of income tax reimbursable cannot exceed ROE x MAT or ROE x



Corporate Tax as applicable. Accordingly, the maximum allowable reimbursement of income tax has been worked by UPPCL as follows:

Table 4: UPPCL Submission on Income Tax

(Figures in Rs. Crore)

Maximum allowable Income Tax reimbursement – Parichha TPS*			
Financial Year	ROE	MAT%	Allowable Income Tax reimbursement
FY 2016-17	12.25**	19%	2.33
FY 2017-18	1.58***	19%	0.30
FY 2018-19	1.58***	19%	0.30
Total			2.93

* For the purposes of this calculation, additional capitalization claimed by UPRVUNL has not been considered since no justification/details have been provided by UPRVUNL.

** ROE at 15.5% as approved by this Commission under MYT Order.

*** ROE at 2% on equity of 357.76 crores approved by the Commission under the MYT Order.

xiv. Reimbursement of Interest on Income Tax:

It is a settled principle of law that interest on income tax charged due to failure in making timely payment of income tax is penal in nature cannot be reimbursed in tariff.

xv. Reimbursement of UPSLDC and NRPC Fee:

Such charges should not be passed on to UPPCL keeping in line with past practices and UPRVUNL should be directed to bear the same through internal accruals.

1.5 UPRVUNL reply

1.5.1 UPRVUNL rejoinder dated 5.10.21 in true up petition for FY 2014-15 to 18-19 of 2x110 MW Paricha TPS.

- (a) UPRVUNL had filed collective true up petition in accordance with previously established practice. The collective petition was filed on 25.10.19 for Anpara A, Anpara B, Anpara D, Harduaganj, Harduaganj Ext., Obra A, Obra B, Panki, Paricha Ext, Paricha Ext II, within stipulated deadline date of 31.10.19 as per regulation 6(2) of UPERC (Generation Tariff) Regulations, 2014. UPRVUNL had provided a copy to UPPCL vide letter dt.25.10.19. Subsequently on 3.1.2020, due to typographical error and slippages there were material changes to the original petition, and thus additional submission was made. On 20.1.2020, additional submission no.2 was made with regard to claim of ROE component at rate of 15.5%,



though to be adjusted with UPPCL at the rate of 2%. On 10.6.20, additional submission no.3 was made on profit sharing of Rs.200.97 Cr. for control period. UPPCL has already adjusted this profit-sharing amount in its running bills. UPRVUNL on 14.10.20 made additional submission on additional capitalisation claim for Paricha Ext. Stage II for purchase of mandatory spares for Rs.5.15 Cr. and Government approval of revised R&M cost of Harduaganj from Rs.392 Cr. to Rs.475.9 Cr. on account of increase in IDC. UPRVUNL made last submission on 1.12.20 to substantiate the claims of statutory charges and to facilitate prudence check as per UPERC (Generation Tariff), Regulations, 2014. All these submissions were material change as far as original petition is concerned. Subsequent to hearing held on 16.3.21, separate petitions for each thermal station were filed within stipulated time frame. Therefore, there was no delay in filing of petition and claim for interest as admissible under Regulations stand firm.

- (b) Regarding truing up of tariff basis availability, UPRVUNL has submitted that these are vintage plants having hereditary systemic and institutional constraints causing inevitable under performance when compared to regulatory norms despite best efforts. Further, due to paucity of funds and forced running of unit to meet emergent power demand situation, it is not always possible /permitted to undertake timely overhauling /purchase of spares causing further wear and tear to deteriorate operational performance and increasing unplanned shut down to result in loss of availability.
- (c) Regulation 6 of UPERC (Generation Tariff) Regulations, 2014 provides that admittance of additional capital cost is to be done during true up after carrying out prudence check by Commission. There is no explicit provision in regulations making it compulsory to give projection for additional capital expenditure during beginning of control period. Further, auditing process for financial year is finalised by the end of quarter to of next financial year, therefore audited figures may not be available at the time of final MYT petition.
- (d) UPRVUNL has provided justification in prescribed format for major additional capital expenditure. Moreover, UPRVUNL accounts under grow audit at Internal, Statutory and finally at CAG level in which the procedure as well as cost incurred is duly verified by the auditors and no observation ever was raised at any of the audit stages. UPRVUNL has submitted audited accounts and information available with it.
- (e) UPRVUNL has claimed additional capital expenditure towards R&M to the tune of Rs. 181.66 Crore for the period 2014-15 to 2018-19 which



leads to increase in Capital Cost from Rs. 305.26 Crore as allowed by Hon'ble Commission vide its MYT Order dated 29-04-2016 to Rs. 486.92 Crore as claimed in True-Up Petition.

- (f) UPRVUNL has taken loan from PFC and REC, the details which have been submitted along with applicable interest rate. Further, UPRVUNL has submitted that on capex reimbursement done by PFC and REC against sanctioned loan directly to vendor/supplier. The reimbursement of loan includes amount of previous year and current year including that towards CWIP.
- (g) The Board of Directors of UPRVUNL had adopted ROE at rate of 2% from 2017-18 onwards as per UP Government order vide letter dt.31.7.17. Accordingly, the petitioner has built the fixed cost keeping ROE 2% for 2017-18 and 18-18 and forgone rest of 13.5%. However, voluntarily forgoing 13.5% claim in its bill can make petitioner relinquishing its right of ROE at the rate of 15.5% as stipulated in clause 25(iii) of UPERC (Generation Tariff) Regulations, 2014.
- (h) The Commission may approve O&M expenses as claimed in petition in normative basis.
- (i) Interest on working computation has been done as per approach followed by Commission in MYT order dt.29.4.16 and review of MYT order dt.18.1.17.
- (j) The claim on account of reimbursement of income tax has been made as per clause ii(g) of MYT Review order dt. 18.1.17.
- (k) UPRVUNL has explicitly agreed in PPA with UPPCL to not to claim any late payment surcharge on shortfall in revenue realization in verified bills. However, if any penal liability from late payment surcharge is created due to shortfall in revenue realization on account of UPPCL it has to be borne by UPPCL.
- (l) UPPCL reimburses UPSLDC and NRPC fees to other generating station in terms of clause 25(iv)(c) of UPERC (Generation Tariff) Regulations, 2014.

1.6 Preliminary scrutiny of the Petition

1.6.1 Information Requirement/ Discrepancies/ Data Gaps in Petition for True-Up for the Control Period of FY 2014-19 for 10 Generating Station of UPRVUNL



Truing up of Tariff for 2x110 MW Paricha TPS for the Period 2014-15 to FY 2018-19 for UPRVUNL

(a) UPRVUNL has claimed 15.5% ROE in FY 2017 and FY 2018-19 though the UPRVUNL and UPPCL have agreed for ROE @2% in these two years.

(b) UPRVUNL has to submit the details of the expenditure claimed towards Special Allowance during the period 2014-19 and break-up of capital expenditure incurred out of Special Allowance for all the 10 power stations:

FY	Special Allowance Claimed (Rs. Crore)	Capital Expenditure incurred out of Special allowance (Rs. Crore)
FY 2014-15		
FY 2015-16		
FY 2016-17		
FY 2017-18		
FY 2018-19		

(c) UPRVUNL has to clearly specify as to whether they have claimed the CAPEX out of special allowance in AD-CAP also? If yes, then the amount of such CAPEX is to be specified.

(d) UPRVUNL has claimed normative O&M expenses in true up petitions. To arrive at the correct admissibility, UPRVUNL has to submit the Actual Operation & Maintenance Expenses (O&M Expenses) incurred and normative O&M expenses as claimed by the UPRVUNL during the control period 2014-19 in the following table for all the 10 power stations:

FY	Normative O&M Expenses as Claimed (Rs. Crore)	Actual O&M Expenses Incurred as per Audited Accounts (Rs. Crore)
FY 2014-15		
FY 2015-16		
FY 2016-17		
FY 2017-18		
FY 2018-19		

(e) Details of Gross Station Heat Rate (GSHR), Secondary Fuel Oil Consumption (SFOC), Auxiliary Energy Consumption for the control period 2014-19.

(f) Justification and details of payment on account of penal charges by UPRVUNL to the Income Tax Authorities, though it is not admissible as per Regulations.

(g) Details of expenditure incurred towards UPSLDC & NRPC Fee.

1.6.2 UPRVUNL vide letter dt.29.12.21 has submitted replies to the Commission's queries as follows:



- (a) The Commission vide tariff order 29.4.16 & 18.1.17 as approved special allowance for Anpara A and Panki for control period 2014-15 to 18-19. UPRVUNL has claimed special allowance to the tune of Rs.268.21 Cr. and Rs.69.25 Cr. in Anpara A and Panki respectively.
- (b) UPRVUNL has claimed additional expenditure of Rs.143.01 Cr. and Rs.23.18 Crs for Anpara A and Panki respectively as per audited annual accounts.
- (c) UPRVUNL has submitted actual O&M expenses for all power stations of UPRVUNL and also provided justification for higher actual O&M expenses for Anpara A than normative.
- (d) UPRVUNL has submitted GSHR, secondary fuel oil consumption, auxiliary consumption for control period 14-19.
- (e) UPRVUNL has submitted details of payment on account of penal charges by UPRVUNL with Income Tax authorities.
- (f) UPRVUNL has submitted supporting documents and verified bills by UPPCL towards UPSLDC and NRPC fees.

1.6.3 Subsequently, the Commission sought further details of operating parameter for computation of efficiency gain. These details were furnished vide email dated 13.04.2022 and subsequently vide email dated 20.05.22, the updated actual performance data was submitted. The Petitioner vide email dated 01.06.22 has furnished the details of plants availability for FY 2014-15 to FY 2018-19 and amended forms for Paricha Ext. TPS.

2. TRUING UP OF 2X110 MW PARICHHA TPS TARIFF FOR FY 2014-15 TO FY 2018-19

2.1 Previous Orders of the Commission

2.1.1 The Commission vide its Order dated April 29, 2016, in Petition No. 1025 and 1026 of 2015 approved the Tariff for the Second Control Period (FY 2014-15 to FY 2018-19). Further the Commission vide its Order dated January 18, 2017, in the Petition No. 1117 and 1126 of 2016 reviewed the Order and revised the Tariff for the Second Control Period (FY 2014-15 to FY 2018-19). The Annual fixed charges approved by the Commission were as under:

Table 5: ARR components approved in Order dated April 29, 2016, and January 18, 2017

(Figures in Rs. Crore)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
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Depreciation	15.92	15.92	15.92	15.92	15.92
Interest on Long Term Loans	5.78	3.78	1.79	0.4	-
Return on Equity	12.25	12.25	12.25	12.25	12.25
IoWC	28.18	28.37	28.46	28.62	28.86
O&M	70.2	73.13	76.14	79.27	82.46
Special Allowance	-	-	-	-	-
Total	132.33	133.45	134.56	136.46	139.49

2.1.2 MYT Review Order

"1.111 in case of vintage stations namely Anpara "A", Obra "A", Obra "B", Panki, Harduaganj and Parichha for the period FY 2014-15 to FY 2018-19, there has been an inadvertent error in approving the compensation allowance beyond the useful life of the plant and since it has now been brought to the notice of the Commission, the Commission has accepted the submission made by UPPCL and accordingly, the Commission **disallows the compensation allowance approved for these stations for the period FY 2014-15 to FY 2018-19.**

1.112 With respect to UPRVUNL's submission on special allowance, according to the second proviso under Regulation 22(5)(i)(a) of UPERC (Terms and Conditions of Generation Tariff) Regulations, 2014, the option to avail special allowance is not available to generating stations or units which have undertaken renovation & modernization. The aforementioned provision has been produced below for greater clarity:

"Provided also that such option shall not be available for a generating station or unit for which renovation and modernization has been undertaken and the expenditure has been admitted by the Commission before commencement of these regulations, or for a generating station or unit which is in a depleted condition and operating under relaxed operational and performance norms"

1.113 **The Commission has already admitted Renovation & Modernization expenditure for Obra 'A', Obra 'B', Harduaganj and Parichha power generating stations in its previous tariff orders and hence these stations are not eligible for special allowance. Hence, only Anpara-A and Panki generating station are eligible for special allowance under UPERC (Terms and Conditions of Generation Tariff) Regulations, 2014.**"

2.1.3 Particularly, as regards truing-up, the following findings have been rendered by this Commission under the MYT Review Order:

"Issue 5: Inclusion of Separate Clause for allowing recovery of statutory Charges



UPRVUNL submitted that

- 1.95 The Hon'ble Commission in Clause 8 (A) of its MYT Order dated 20th January 2011 had allowed UPRVUNL to recover the cost incurred on account of payment of statutory charges from the beneficiary. Further, it quoted the aforementioned clause of the Tariff Order dated 20th January 2011 which is produced below:
"In addition to the above tariff UPRVUNL is allowed to recover the payment of statutory charges like water cess, cost of water, payment to Pollution Control Board, rates and taxes, FBT and Regulatory Fee paid to the Commission, on production of details of actual payments made and duly supported with the certificate of the Statutory Auditors. The Petitioner has claimed certain additional charges as variable charges towards other fuel related costs, station supplies, lubricants and consumables critical to the generating stations as separate pass through on actuals. The same is allowed for the consideration period of MYT subject to verification of audited accounts at the time when true up would be considered by the Commission..."
- 1.96 The Hon'ble Commission while issuing the MYT Tariff Order dated 29.04.2016 for the period FY 2014-15 to FY 2018-19 has left out the above clause. Due to absence of the above clause, it would not be able to recover its costs incurred on payment of statutory charges like water cess, cost of water payment to Pollution Control Board, rates and taxes, FBT and regulatory fee paid to commission, additional payments towards other fuel related costs and station supplies, lubricants and consumables critical to generating station.
- 1.97 Hence, in view of the above, UPRVUNL requested the Hon'ble Commission to amend the MYT Tariff Order dated 29.04.2016 and insert the aforementioned clause allowing recovery of statutory charges and other fuel related costs as a separate pass through in line with the previous MYT Tariff Order dated 20.01.2011

Commission's View:

- 1.98 **The Commission found the prayer reasonable and decided that following shall be added in clause "11" of UPRVUNL's Tariff Order dated 29.04.2016:**

(G) **Recovery of Statutory charges and Tax on income etc.**

In addition to the above tariff UPRVUNL is allowed to recover the payment of statutory charges like water cess, cost of water, payment to Pollution Control Board, rates and taxes, FBT and Regulatory Fee paid to the Commission and taxes on income etc., on production of details of actual payments made and duly



supported with the certificate of the Statutory Auditors. The Petitioner has claimed certain additional charges as variable charges towards other fuel related costs, station supplies, lubricants and consumables critical to the generating stations as separate pass through on actuals. The same is allowed for the consideration period of MYT subject to verification of audited accounts at the time when true up would be considered by the Commission.

However, the payment of finance and bank charges will not be allowed separately as these charges are considered as part and parcel of the acquired loans to be invested for addition of Gross Fixed Assets and therefore the same shall be claimed as Fixed Charges in the same manner as is applicable for the recovery of interest during construction. Similarly, the payment of Service Tax on services provided by CISF shall not be allowed separately because the same has already been included in norms of O & M Expenses."

2.2 Approach to this Order

2.2.1 The UPERC Generation Tariff Regulations, 2014 provides the following for True Up:

"6. Truing up of Capital Expenditure and Tariff:

(1) The Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2019, as admitted by the Commission after prudence check at the time of truing up.

(2) The generating company shall make an application, as per Appendix II to these regulations, for carrying out truing up exercise in respect of the generating station or any of its units or block of units thereof by 31.10.2019.

(3) The generating company shall submit for the purpose of truing up, details of capital expenditure and additional capital expenditure incurred duly audited and certified by the auditors.

Provided the Commission may appoint a separate independent auditor who, under the supervision of the Commission, shall undertake technical and financial audit of the generating station at any time.

(4) The Commission shall also carry out truing up of tariff of generating stations based on the performance of following controllable parameters:

- (a) Gross Station Heat Rate;
- (b) Secondary Fuel Oil Consumption;
- (c) Auxiliary Energy Consumption; and
- (d) Re-financing of Loan.

(5) The Commission shall carry out truing up of tariff of generating stations



based on the performance of following uncontrollable parameters:

- (a) Force Majeure;
- (b) Change in Law; and
- (c) Primary Fuel Cost

(6) The financial gains by a generating company on account of controllable parameters shall be shared between generating company and the beneficiaries. The financial gains computed as per following formulae in case of generating station on account of operational parameters contained in Clause (4) (a) to (c) above shall be shared in the ratio of 80:20 between generating company and the beneficiaries:

Net Gain = $(ECR_N - ECR_A) \times \text{Scheduled Generation}$, Where,

ECR_N – Normative Energy Charge Rate computed on the basis of norms specified/approved for Gross Station Heat Rate, Auxiliary Consumption and Secondary Fuel Oil Consumption.

ECR_A – Actual Energy Charge Rate computed on the basis of actual Gross Station Heat Rate, Auxiliary Consumption and Secondary Fuel Oil Consumption for the month.

Provided that in case of financial gains on account of parameters contained in Clause (4)(d) above shall be shared in accordance with Clause (i) (e) of Regulation 25 & Regulation 44 of these regulations.

(7) The financial gains and losses by a generating company on account of uncontrollable parameters shall be passed on to beneficiaries of the generating company.

(8) Where after the truing up the tariff recovered exceeds the tariff approved by, the Commission under these regulations the generating company shall refund to the beneficiaries, the excess amount so recovered along with simple interest at the rate equal to the Bank Rate prevailing as on 1st April of the respective Year.

(9) Where after the truing up the tariff recovered is less than the tariff approved by the Commission under these regulations the generating company shall recover from the beneficiaries, the under-recovered amount along with simple interest at the rate equal to the Bank Rate, prevailing as on 1st April of the respective Year.

10) The amount under-recovered or over-recovered, along with simple interest at the rate equal to the Bank Rate as on 1st April of the respective Year, shall be recovered or refunded by the, generating company, in six equal monthly installments starting within three months from the date of the tariff order issued by the Commission after the truing up exercise."

8



2.2.2 The Commission in the instant matter has determined the True-Up for FY 2014-15 to FY 2018-19 in terms of UPERC Generation Tariff Regulations, 2014, its earlier orders dated 29.04.2016 in Petition Nos. 1025 & 1026 of 2015 ("MYT Order") read with review order dated 18.01.2017 in Petition Nos. 1117 & 1126 of 2016 ("MYT Review Order"), UPPCL reply dated 02.07.2021, UPRVUNL rejoinder dated 05.10.2021 and UPRVUNL reply dated 29.12.2021 to the Commission's query. The Commission has also considered the details submitted vide UPRVUNL email dated 20.05.2022 and 01.06.22.

2.3 Truing up of additional capitalization for FY 2014-15 to FY 2018-19

Paricha TPS has two units are operational at present. The unit wise COD achieved as under:

Table 6: COD of Parichha 2x110 MW-TPS

Units	Actual COD
Parichha TPS	
Unit 1	October 01, 1985
Unit 2	February 25, 1985

2.3.1 GFA Balance

The Petitioner has submitted that there has been additional capitalisation to the tune of Rs 103.91 Crores spread across the Control period as per details in the specific formats. The Petitioner has considered the opening balance of gross fixed assets for the financial year 2014-15 from the MYT Order issued by the Commission on 29th April 2016 and review order dated 18th January 2017.

Table 7: Gross Fixed Asset Balance as per UPRVUNL

Figures in Rs Crore

Particulars	2014-15		2015-16		2016-17		2017-18		2018-19	
	Approved	Actual	Approved	Actual	Approved	Actual	Approved	Actual	Approved	Actual
Opening GFA	305.27	305.26	305.27	372.95	305.27	468.36	305.27	473.50	305.27	481.28
Capitalisation	-	67.69	-	95.41	-	6.29	-	7.78	-	4.48
Deletions	-	-	-	-	-	1.14	-	-	-	-
Closing GFA	305.27	372.95	305.27	468.36	305.27	473.50	305.27	481.28	305.27	485.76

2.3.1.1 UPRVUNL, subsequently, vide its rejoinder dated 05.10.21, has submitted that it has incurred the additional capital expenditure towards R&M which was approved by the Commission. Accordingly, the Regulation-22(5) has been invoked for claiming actual additional capitalization incurred during FY2014-19. The Petitioner has also revised the HQ GFA allocation based on the opening of each subsequent year. The revised breakup of additional capex is as below:



Table 8: Revised Break-Up of Additional Capex as per UPRVUNL

Figures in Rs Crore

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
	Actual	Actual	Actual	Actual	Actual
Opening GFA	305.26	372.95	468.36	474.66	482.44
Capitalisation	67.69	95.40	6.29	7.76	4.48
HQ Allocation	0	0.01	0.01	0.01	0
Deletions	-	-	-	-	-
Closing GFA	372.95	468.36	474.66	482.44	486.92

2.3.1.2 The Commission vide order dated 29.10.2013 in Petition no. 820 of 2012 has already allowed R&M expenditure of Rs. 287.51 crores, as below:

- "1. The Petitioner, Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (UPRVUNL) has filed this petition **for approval of R&M Scheme of BTG works of Unit No. 2 and BOP works of Unit No. 1 & 2 of 2 x 110 MW Parichha Thermal Power Station.**
2. **The two units of 110 MW each were commissioned on 31.03.1984 and 25.02.1985 respectively. The units have outlived their useful life of 25 years and their performance has deteriorated over the years.**
3. The R&M scheme has been prepared by UPRVUNL in consultation with NTPC and BHEL. The Board of Directors of UPRVUNL in the 148th Board Meeting held on 06.01.2012 accorded their approval on the R&M Scheme of Parichha TPS. The Energy Task Force in the meeting held on 17.05.2012 has also approved the R&M scheme. **The total expenditure towards the R&M scheme has been envisaged at Rs. 287.506 crore. The capital investment would be funded in the ratio of 76:24 debt & equity. Power Finance Corporation has agreed to fund the debt portion. Balance counterpart equity would be available from the State Government through budgetary allocation.** The works undertaken in the scheme have been classified under the following broad heads:
 - i. Common Auxiliaries System
 - ii. Turbine Associated Works
 - iii. Boiler Associated Works
 - iv. Ash Handling Associated Works
 - v. Electrical and Associated Works
 - vi. C&I Works
 - vii. Communication Associated Works
 - viii. Coal Handling Works



8. The Commission enquired that whether any major R&M had been taken up by UPRVUNL for this project in the past? The Representative of UPRVUNL replied in negative. Further, the Commission expressed its concern about the continued nonperformance by the plant in comparison to the expected performance as provided through Regulations. It was vividly uttered by the Commission that the parameters provided in the Regulations are pre R&M and not post R&M. Therefore, it was directed to UPRVUNL to submit the expected increase in life, payback period and improved achievable operating parameters within three days. The same has been submitted by UPRVUNL on 21.10.2013. In this UPRVUNL has submitted as below:
- (i) The main petition has been amended and now seeking only inprinciple approval of the capital cost of R&M scheme.
 - (ii) The data in respect of accumulated depreciation and actual cost incurred would be submitted alongwith the tariff petition for next tariff period.
 - (iii) The payback period is 7.45 years and IRR is 17.18%.
 - (iv) Increase in life expectancy by 15 years.
 - (v) PLF after completion of R&M scheme is expected to be 75%.
 - (vi) Oil Consumption to be around 3.0 ml/kwh.
 - (vii) Auxiliary Consumption to be 11.5 %.
 - (viii) Gross Station Heat Rate to be 3000 kcal/kwh

9. **In view of above, the Commission considers to approve the R&M expenditure of Rs. 287.506 crore for BTG works of Unit No. 2 and BOP works of Unit No. 1 & 2 of 2 x 110 MW Parichha Thermal Power Station. The subject amount is Rs. 1.307 Crores per MW for the plant. The R&M proposal is being approved by the Commission with the intent that UPRVUNL would adhere to the proposed timelines for R&M which has been stated to be completed by 31.3.2014. Regarding the improvement in parameters, the Commission has a distinct view that post R&M the plant should operate at par with other same capacity plant in India. Therefore, post R&M the parameters shall be considered as below:**

Sl. No.	Parameter	As per the Regulations	As proposed	As approved by the Commission
1.	PLF (%)	70	75	80
2.	Sec. Oil Consumption (ml/kwh)	2.6	3	2.2
3.	Auxiliary Energy Consumption (%)	10.7	11.5	10.5
4.	Gross Station Heat Rate (kcal/kwh)	2980	3000	2950



2.3.1.3 The Commission, vide its MYT Order, had directed for deletion of unit no. 1 and 2 and decided that tariff determined for FY 2018-19 onwards would not be applicable to these units:

"10. ...

Further, the Commission has also observed that the Petitioner has not undertaken the approved Renovation and Modernization schemes in spite of directions by the Commission. The Commission is of the view that the capacity of the units which are underperforming should be deleted in the coming years and thus no tariff for these plants shall be allowed after FY 2017-18. The Tariff approved for FY 2018-19 shall not be applicable to power generated from the vintage units specified in the following table:

Plant	Units
Obra - A	Unit - 1, 2, 3 and 4
Panki	Unit 3
Harduaganj	Unit 5
Parichha	Unit 1 & 2

2.3.1.4 Subsequently, the Commission in the Review order held that R&M for unit No. 2 has been completed and the Commission will decide the tariff for Unit 2 but for unit no. 1, the status shall be communicated to the Commission separately:

"Issue 4: Approval of Tariff for Vintage Stations of UPRVUNL during MYT Control Period FY 2014-15 to FY 2018-19

UPRVUNL submitted that

...

1.85 Hence, in view of the above, UPRVUNL requested the Commission to allow the tariff for Unit 3 of Panki and Unit 1 & Unit 2 of Parichha power stations.

UPPCL submitted that

...

1.87 With respect to UPRVUNL's claim that it is making serious efforts to improve the performance of Unit 3 of Panki and Unit 1 & Unit 2 of Parichha power stations, the R&M scheme for Parichha was approved by BoD on 8.11.2012 but the work has not started yet and it is expected to be completed by March 2018. Similarly, the overhauling scheme claimed by UPRVNL for Panki station has neither been approved by the Hon'ble Commission in R&M scheme and nor was it claimed under Additional Capital Expenditure in the MYT Petition.



1.88 Hence, in view of the above, UPPCL stated that it is evident that there is no urgency on the part of UPRVUNL to improve the operational performance of these stations.

UPRVUNL resubmitted that

1.91 Further, it understands that these stations are not the profit making centre of UPRVUNL and is also of the opinion that such Units should be deleted in coming future.

1.92 However, it requested the Hon'ble Commission to allow tariff for additional period beyond FY 2017-18:

i. for Panki Unit 3 till new power station (Panki Extn) gets commissioned.

ii. for the Parichha Units 1 & 2 so that it can recover its R&M cost.

Commission's view

1.93 The Commission has already elaborated the reasons for not approving the tariff for these stations at Page No. 196 of the Tariff Order dated 29th April 2016. UPRVUNL has not been able to satisfy the Commission regarding the operating feasibility of these stations.

1.94 **In case of Unit -2 of Parichha Thermal Power Station the R&M has been completed and the machine is running on desired load. Therefore, the Commission will decide the tariff for Unit-2. However, the R&M work on Unit-1 had not started and as per the Commission's earlier order the R&M of Unit-1 should not have been taken up. The status regarding Unit-1 should be communicated to the Commission separately.**

2.3.1.5 The Commission, thereafter, vide order dated 21.09.2017 in Petition no. 1153 of 2016 rebuked UPRVUNL for incurring R&M costs without any prior approval on a plant which was directed to be deleted. The Commission, however, considering that fact that the machine can be utilized as per MOD order at the time of need, approved the R&M of Boiler, Turbine & Generator ("BTG") of Unit 1 of the Parichha TPS and directed to file fresh petition for determination of tariff / true up:

" UPRVUNL had filed petition No.1153/2016 for the approval of R&M of Unit No.1 (BTG Works) of Parichha Thermal Power Station of UPRVUNL.



2. UPPCL submitted their counter affidavit on 07.02.2017. The first hearing in the matter was held on 08.02.17 and interim order was passed on 15.02.17. **In this hearing, UPPCL objected on the action of UPRVUNL to start the work of R&M of Parichha Unit No.1 despite the orders of the Commission to delete this machine. The Commission rebuked the petitioner for having spent the money on the Unit without seeking any prior approval for the same from the Commission.** The Commission has also pointed out that the tariff of Parichha Unit 1 & 2 for FY 2018-19 was not determined due to under performance of Unit No.1 & 2 of Parichha TPS. UPPCL argued that as per the prevailing Regulations the R&M scheme when sought, should be accompanied with its DPR and the beneficiary must also be consulted for the same. But in this case neither a DPR has been submitted nor has the beneficiary been consulted. UPPCL further submitted that due to high variable charges of Parichha units the generation plant is not scheduled. The UPPCL is paying the fixed charges without availing any power from it. UPRVUNL had sought time to file rejoinder in the matter.
6. In the hearing on 19.09.17, Shri V P Srivastava, Chief Engineer (PPA), UPPCL made a request for adjournment of the hearing as their consultant was not available. **The Commission noted that this petition is pending for decision for the last one year and part R&M work of Unit 1 has already been done with substantial expenditure incurred on the same. So far balance of plant and R&M work has been done for both the units and at present the work of about Rs.45 crores remains to be done to complete R&M of BTG of Unit-1 of Parichha TPS. In order to save the expenditure already incurred and the fact that this machine can be utilized as per MOD Order at the time of need, the Commission approves the R&M of BTG of Unit-1 of Parichha TPS as per the cost approval by the ETF.**
7. **UPPCL is allowed to file their view if any, on capital cost and tariff at the time of determination of tariff of Parichha Unit 1 & 2. It will be taken up by the Commission after the petitioner files a fresh petition for determination for tariff and true-ups. The Commission also directs that in future no R&M scheme should be taken up before the approval of Commission.**

2.3.1.6 The Commission vide order dated 15.03.2018 in petition no. 1284 of 2018 decided to allow the tariff for Unit-2 of the Parichha TPS as provided in the MYT Order and the MYT Review Order and held that R&M cost shall be considered at time of true up:

- "1. **UPRVUNL, the state owned thermal generation utility, filed instant petition seeking applicability of tariff for Parichha Unit -2 for FY 2018-19 same as already approved in tariff**



order dated 29.04.2016 and review order dated 18.01.2017. The petitioner has also sought the permission to seek tariff revision for aforementioned Unit on account of its R&M scheme at the time of true-up.

7. **The Commission decided to allow the tariff for Parichha Unit-2 as provided in tariff order dated 29.04.2016 and 18.01.2017. The R&M cost shall be considered at the time of true-up"**

2.3.1.7 The Commission had earlier approved R&M expenditure under UPERC (Generation Tariff) Regulations, 2014, as per clause 22(5) and decided that the actual cost shall be decided at the time of True-up.

2.3.1.8 UPRVUNL has submitted its performance report of Paricha as follows:

2x110 MW Parichha Thermal Power Project Jhansi				
Parameters	UPERC Norms	Commission approved	Financial Year	FY APR-MAR
Sp. Oil Cons. ml/unit	2.6	2.2	2014-2015	6.71
			2015-2016	6.63
			2016-2017	5.93
			2017-2018	1.85
			2018-2019	5.45
Heat Rate K Cal/unit	2980	2950	2014-2015	3231
			2015-2016	2994
			2016-2017	3124
			2017-2018	3213
			2018-2019	2939
Auxiliary Cons %	10.7	10.5	2014-2015	18.48
			2015-2016	16.34
			2016-2017	19.68
			2017-2018	24.21
			2018-2019	23.92

2.3.1.9 **The Commission, in view of under-performance and exceeding the timeline of 31.03.2014 for R&M, decides that no further R&M expenditure shall be allowable for the Project. Therefore, the approved GFA is as below:**

Table 9: Break-Up of Additional Capex as approved by the Commission

Figures in Rs Crore

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
	Actual	Actual	Actual	Actual	Actual
Opening GFA	305.26	372.95	468.36	474.65	482.43
Capitalisation	67.69	95.4	6.28	7.76	4.48
HQ Allocation	0	0.01	0.01	0.01	0
Deletions	-	-	-	-	-
Closing GFA	372.95	468.36	474.65	482.43	486.91



2.3.2 Means of Finance

2.3.2.1 The petitioner has submitted that opening values of accumulated depreciation, normative loan, and equity as on 1.4.14 has been adopted from approved values in the Commission's order dt.29.4.16 and review order dt.18.1.17. Further, UPRVUNL has submitted that additional capitalization has been financed in normative debt equity ratio.

2.3.2.2 UPERC Generation Tariff Regulations 2014, clause 22(5) has the following provision for debt: equity ratio:

"(5) **Renovation and Modernization (R&M)**

(i)

(a) The generating company, for meeting the expenditure on renovation and modernization(R&M) for the purpose of extension of life beyond the useful life of the generating station or a unit thereof, shall make an application before the Commission for approval of the proposal with a Detailed Project Report giving complete scope, justification, cost-benefit analysis, estimated life extension from a reference date, financial package, phasing of expenditure, schedule of completion, reference price level, estimated completion cost including foreign exchange component, if any, record of consultation with beneficiaries and any other information considered to be relevant by the generating company.

Provided that in case of coal-based thermal generating station, the generating company, may, in its discretion, avail of a "special allowance" in accordance with the norms specified in clause (d), as compensation for meeting the requirement of expenses including renovation and modernization beyond the useful life of the generating station or a unit thereof, and in such an event revision of the capital cost shall not be considered and the applicable operational norms shall not be relaxed but the special allowance shall be included in the annual fixed cost.

Provided also that such option shall not be available for a generating station or unit for which renovation and modernization has been undertaken and the expenditure has been admitted by the Commission before commencement of these regulations, or for a generating station or unit which is in a depleted condition and operating under relaxed operational and performance norms.



- (b) *Where the generating company makes an application for approval of its proposal for renovation and modernization, the approval shall be granted after due consideration of reasonableness of the cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, cost-benefit analysis, and such other factors as may be considered relevant by the Commission.*
- (c) *Any expenditure incurred or projected to be incurred and admitted by the Commission after prudence check based on the estimates of renovation and modernization expenditure and life extension, and after deducting the accumulated depreciation already recovered from the original project cost, shall form the basis for determination of tariff.*
- (d) *A generating company, on opting for the alternative in the first proviso to clause (a) of this regulation, for a coal-based thermal generating station, shall be allowed special allowance @ Rs. 7.5lakh/MW/year in 2014- 15 and thereafter escalated @ 6.35% every year during the tariff period 2014-19, unit-wise from the next Year from the respective date of the completion of useful life with reference to the date of commercial operation of the respective unit of generating station: Provided that in respect of a unit in commercial operation for more than 25 years as on 1.4.2014, this allowance shall also be admissible from the year 2014-15.*
- (e) *In the event of granting special allowance by the Commission, the expenditure incurred or utilized from special allowance shall be maintained separately by the generating station and details of same shall be made available to the Commission as and when directed to furnish details of such expenditure.*
- (ii) *The provisions of sub regulation (i) shall apply provided the generating company shall ensure to plan R&M of at least one unit of each generating station every year for life extension and improvement in performance, wherever due, after due techno economic studies and approval from the Commission to facilitate R&M or phase out.*
- (iii) ***Any expenditure admitted by the Commission for determination of tariff on R&M and life extension shall be serviced on normative debt-equity ratio specified in Regulation 24 after writing off the original amount of the replaced assets from the original project cost. The generating company, for the purpose of R&M and life***



extension of the plant, shall be guided by the guide lines issued by the Commission from time to time.

- (6) Impact of additional capitalisation in tariff revision may be considered by the Commission each year in a tariff period, including revision of tariff after the cutoff date.

Note 1:....."

Therefore, the Commission, has considered the financing of R&M expenditure on normative basis with equity financing @30% in terms of the UPERC Regulations, 2014.

2.3.3 Depreciation

The petitioner has submitted that depreciation has been computed as per tariff regulations appendix 2 which prescribes distinct depreciation rates of each class of assets. The Commission has applied depreciation rates as prescribed in the UPERC Regulations 2014 on the break- up of additional capitalisation provided by the Petitioner and worked out the depreciation.

2.3.3.1 The Commission, based on approved GFA for FY2014-19, has considered the following GFA balance, net fixed asset balance and financing as per table below:

Table 10: Calculation of GFA and NFA with Financing

Figures in Rs Crore

Parichha Power Station	2014-15	2015-16	2016-17	2017-18	2018-19
					True up
Opening GFA	305.26	372.95	468.36	474.65	482.43
Additions	67.69	95.41	6.29	7.78	4.48
Deletions	0.00	0.00	0.00	0.00	0.00
Closing GFA	372.95	468.36	474.65	482.43	486.91
Closing Net FA	182.86	255.63	236.32	218.10	196.27
Financing:					
Opening Equity	79.03	99.34	127.96	129.5	131.84
Additions	20.31	28.62	1.89	2.33	1.34
Deletion	0.00	0.00	0.00	0.00	0.00
Closing Equity	99.34	127.96	129.85	131.83	133.18
Open. Accumulated Depreciation	172.2	190.09	212.73	238.33	264.33
Depreciation during the year	17.89	22.64	25.60	26.01	26.31



Closing Accumulated Depreciation	190.09	212.73	238.33	264.33	290.64
Opening Debts	54.11	83.60	127.75	106.56	85.99
Additions	47.38	66.79	4.40	5.45	3.14
Less: Depreciation (normative repayment)	17.89	22.64	25.60	26.01	26.31
Closing Debts	83.60	127.75	106.56	85.99	62.82

2.3.4 Interest on loan

2.3.4.1 Petitioner has submitted that the Commission in its order dt.29.4.16 and review order dt.18.1.17 prescribed a normative approach of financing of capex in ratio of 70% debt and 30% equity as per the tariff regulations. The allowable depreciation has been considered as normative loan repayment with weighted average interest on loan capital as per details submitted.

2.3.4.2 UPERC Generation Regulation 25(i) are being reproduced herein below for ready reference –

"22. *Additional capitalization:*

...

Note 1:

Any expenditure admitted on account of committed liabilities within the original scope of work and the expenditure deferred on techno-economic grounds but falling within the original scope of work shall be serviced in the normative debt equity ratio specified in Regulation 24.

Note 2:

Any expenditure on replacement of old assets shall be considered after writing off the gross value of the original assets from the original project cost, except such items as are listed in clause (3) of this regulation.

Note 3:

Any expenditure admitted by the Commission for determination of tariff on account of new works not in the original scope of work shall be serviced in the normative debt-equity ratio specified in **Regulation 24.**

...

24. *Debt-Equity Ratio:*

(1) *In case of all generating stations, debt-equity ratio as on the date of commercial operation shall be 70:30 for determination of tariff. **Where equity employed is more than 30%, the amount of equity for determination of tariff shall be limited to 30% and the balance amount shall be considered as the normative loan.***

Provided that

(i) **In case of a generating station where actual equity employed is less than 30%, the actual debt and equity shall be considered for determination of tariff;**



- (ii) The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment; and
- (iii) Any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt-equity ratio.
- (2) **The debt and equity amount arrived at in accordance with clause (1) shall be used for calculating interest on loan, return on equity, and Foreign Exchange Rate Variation.**
- (3) **Any expenditure incurred or projected to be incurred on or after 1.4.2014 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this regulation."**
25. Computation of Capacity (Fixed) Charge:
- ...
- (i) Interest on loan capital
- (a) **Interest on loan capital shall be computed loan wise on the loans arrived at in the manner indicated in Regulation 24.**
- (b) The loan outstanding as on 1st April 2014 shall be worked out as the gross loan as per Regulation 24 minus cumulative repayment as admitted by the Commission up to 31st March 2013. **The repayment for any year during the Tariff Period shall be deemed to be equal to the depreciation allowed for that Year.** **In case of decapitalisation of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of decapitalisation of such asset.**
- (c) **The rate of the interest shall be the weighted average rate of interest calculated on the basis of actual loans at the beginning of each year and shall be adjusted based on actual loan each year accordingly.**
- (d) **If there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average of interest shall be considered.**
- (e) The generating company shall make every effort to re-finance the loan as long as it results in net benefit to the beneficiaries. The costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the beneficiaries and the



- generating company in the ratio of 2:1. The above facts shall be certified by statutory auditor.
- (f) The changes to the loan terms and conditions shall be reflected from the date of such re-financing and benefit passed on to the beneficiaries.
 - (g) In case of any dispute, any of the parties may approach the Commission with proper application. However, the beneficiaries shall not withhold any payment as ordered by the Commission to the generating company during pendency of any dispute relating to refinancing of loan.
 - (h) In case any moratorium period is availed of by the generating company, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.
 - (i) The generating company shall not make any profit on account of refinancing of loan and interest on loan.
 - (j) In case, the generating company has contracted floating/variable rate of interest on loan resetting at certain interval of time the impact of change in rate of interest shall be assessed by the generating company on account of such resetting duly certified by statutory auditor and the capacity charge of the relevant year shall be adjusted for such impact and billed accordingly to beneficiary without approaching the Commission for change in tariff on this account.

Provided if the generating company does not have actual loan or have re-financed the loan resulting in no specific loan attributable to the generating station then the weighted average rate of interest of the generating company as a whole shall be considered.

Provided also in case of dispute, any party to such dispute may approach the Commission with proper application and it shall be ensured that the payment to the generating company is not withheld during pendency of the dispute."

2.3.4.3 The Commission, in view of the Petitioner submission that there has been no loan disbursement in this Project during the FY 2014-19, has considered the actual weighted average interest on loan @ 12.39%, 12.0%, 11.56%, 11.40% & 11.40% for FY 2014-15 to FY 2018-19 respectively. Accordingly, the interest on loan works out as below:

Table 11: Interest on Term Loan (IoTL)

(Figures in Rs. Crore)



Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Approved	Approved	Approved	Approved	Approved
Opening Loan Balance	54.11	83.60	127.75	106.56	85.99
Addition	47.38	66.79	4.40	5.45	3.14
Reduction	0.00	0.00	0.00	0.00	0.00
Repayment	17.89	22.64	25.60	26.01	26.31
Closing Loan Balance	83.60	127.75	106.56	85.99	62.82
Interest Rate	12.39%	12.00%	11.56%	11.40%	11.40%
Interest on Loan	8.53	12.68	13.54	10.98	8.48

2.3.5 Return on Equity

2.3.5.1 UPPCL has objected that UPRVUNL has considered ROE @ 15.5% whereas as per government order dated 31.07.2017, adopted by board of directors of UPRVUNL on 09.04.2018, ROE has billed @ 2% for 2017-18-19. However, UPRVUNL has contested and submitted that Board of Directors of UPRVUNL had adopted ROE at rate of 2% from 2017-18 onwards as per UP Government order vide letter dt.31.7.17. Accordingly, the petitioner has billed the fixed cost keeping ROE 2% for 2017-18 and 18-19 and forgone rest of 13.5%. However, voluntarily forgoing 13.5% claim in its bill can make petitioner relinquishing its right of ROE at the rate of 15.5% as stipulated in clause 25(iii) of UPERC (Generation Tariff), Regulations, 2014.

2.3.5.2 The Commission, vide order dated order dated 29.04.2016 in Petition Nos. 1025 & 1026 of 2015 ("MYT Order") read with review order dated 18.01.2017 in Petition Nos. 1117 & 1126 of 2016 ("MYT Review Order") has approved ROE @15.5% in terms of UPERC Generation Regulations, 2014. Therefore, the Commission, while Trueing up has considered what is approved already as per the extent Regulations.

2.3.5.3 The said regulation is reproduced herein below for ready reference:

"25. Computation of Capacity (Fixed) Charge:

(iii) Return on Equity:

Return on equity shall be computed in rupee terms on the equity base determined in accordance with Regulation 24 @ 15.5% per annum;

Provided that in case of projects commissioned on or after 1st April, 2014, if such projects are completed within the timeline specified in Appendix IV an additional return of 0.5%, shall be allowed;



Provided further that additional return shall not be admissible if the project is not completed within the timeline specified above for reasons whatsoever;

Provided that the rate of return of a new project shall be reduced by upto 1% for such period as maybe decided by the Commission, if the generating station is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO)/Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system;

Provided also that as and when any of the above requirements are found lacking in an existing generating station based on the report submitted by the SLDC, RoE may be reduced by upto 1% for such period as may be decided by the Commission;

Explanation: The premium raised by the generating company while issuing share capital and investment of internal resources created out of free reserve of the generating company, if any, for the funding of the project, shall also be reckoned as paid-up capital for the purpose of computing return on equity, provided such premium amount and internal resources are actually utilized for meeting the capital expenditure of the generating station and forms part of the approved financial package."

2.3.5.4 Accordingly, the Return on Equity to the Petitioner has been worked out as below:

Table 12: Return on Equity

(Figures in Rs. Crore)

Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
	Approved	Approved	Approved	Approved	Approved
Opening Equity	79.03	99.34	127.96	129.50	131.84
Addition	20.31	28.62	1.89	2.33	1.34
Reduction	0.00	0.00	0.34	0.00	0.00
Closing Equity	99.34	127.96	129.50	131.84	133.18
Rate of RoE	15.50%	15.50%	15.50%	15.50%	15.50%
RoE	13.82	17.62	19.95	20.25	20.54

2.3.6 O&M expenses

UPPCL has submitted that UPERC Regulation stipulate that lover of normative or actual O&M expenses for particular year shall be allowed therefore, actual expenses of 371.63 crores should be allowed against claimed amount of Rs. 381.63 crores. UPRVUNL has submitted that the Commission may approve O&M expenses as claimed in petition in normative basis.



2.3.6.1 The Commission has gone through the Generation Tariff Regulations, 2014 which prescribe as below:

"25. Computation of Capacity (Fixed) Charge:

...

(iv) Operation and Maintenance expenses:

(a) Coal-based generating stations except for those at (b) below:

Year	<u>Upto</u> <u>200/210/250</u> <u>MW sets</u>	300/330/350 MW sets	500 MW sets	600 MW & above sets
2014-15	<u>23.90</u>	19.95	16.00	14.40
2015-16	<u>25.40</u>	21.21	17.01	15.31
2016-17	<u>27.00</u>	22.54	18.08	16.27
2017-18	<u>28.70</u>	23.96	19.22	17.30
2018-19	<u>30.51</u>	25.47	20.43	18.38

(b) Obra A, Obra B, Panki, Parichha and Harduaganj Power Stations:

...

Note:

(i) For the generating stations having combination of 200/210/250/300/330/500/600/660 MW and above sets, the weighted average value for operation and maintenance expenses shall be adopted.

(ii) **Operation & Maintenance expenses, specified above or the actual expenditure, whichever less, shall be allowed in a particular year. Provided further that in case of partial utilisation of expenditure, unutilised amount may be allowed to meet the increased requirement of Operation & Maintenance expenditure in subsequent years.**

(c) The expenses on regulatory fee, payment to pollution control board, impact of pay revision, capital spares, cost of water and water cess shall be paid additionally at actuals subject to prudence check. The details regarding the same shall be furnished along with the petition;

Provided that the generating station shall submit the details of year wise actual capital spares consumed at the time of truing up with appropriate justification for incurring the same and substantiating that the same is not funded through compensatory allowance or special allowance or claimed as a part of additional capitalisation or consumption of stores and spares and renovation and modernization.



(d) In case of coal-based thermal generating station a separate compensation allowance unit-wise may be permitted to meet expenses in nature of capital expenditure on replacement of minor assets which are not admissible under Regulation 22 of these regulations, and in such an event, revision of the capital cost shall not be allowed on account of compensation allowance but the compensation allowance shall be allowed to be recovered separately, in the following manner from the year following the year of completion of 10, 15, or 20 years of useful life:"

2.3.6.2 The Commission, keeping in view that vintage plants would require higher O&M expenses, had prescribed higher normative O&M for namely OBRA-A, OBRA-B, Panki, Paricha and Harduaganj Power Stations, than those applicable to other power stations. However, at the same time to keep a check & balance, the provision of lower of actual or normative O&M expenses was provided. As Paricha Extension falls under the category of vintage plants, lower of actual and normative O&M expenses would be applicable to the station. **Accordingly, the O&M expenses work out as below:**

Table 13: O&M Expenses

(Figures in Rs. Crores)

Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Normative O&M Expenses (Rs. Lakh/MW)	31.91	33.24	34.61	36.03	37.48
Installed Capacity (MW)	220	220	220	220	220
Normative O&M expenses	70.20	73.13	76.14	79.27	82.46
Actual O&M expenses	72.91	81.92	79.11	69.70	93.47
Approved o&m expenses	70.20	73.13	76.14	69.70	82.46

2.3.7 Interest on Working Capital

2.3.7.1 Regulation 25(v) of the Tariff Regulations 2014 prescribes detailed guidelines and methodology for computing both working capital and IoWC. Further, the Regulation 6(5) of Tariff Regulations 2104 provides for True of Primary Fuel cost as uncontrollable parameter. Therefore, the Commission has considered the Fuel cost as submitted by UPRVUNL based on audited accounts for each year.

Table 14: Annual Receivables of Parichha Power Station required for calculation of Working Capital

(Figures in Rs. Crores)



Truing up of Tariff for 2x110 MW Paricha TPS for the Period 2014-15 to FY 2018-19 for UPRVUNL

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Annual Capacity [Fixed] Charges Admissible	27.97	72.32	96.93	71.99	136.19
Fuel Cost	152.52	327.58	217.23	110.75	61.64
Total Receivables	180.49	399.90	314.16	182.74	197.83

Table 15: Interest on Working Capital as determined by Commission

(Figures in Rs. Crore)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Cost of Coal for 60 days	25.42	54.60	36.21	18.46	10.27
Cost of Secondary Fuel Oil for 2 months					
O & M for 1 month	5.85	6.09	6.35	5.81	6.87
Maintenance Spares @20% of O & M Exp.	14.04	14.63	15.23	13.94	16.49
Receivables equivalent to 2 months capacity and energy charges	30.08	66.65	52.36	30.46	32.97
Working Capital	75.39	141.97	110.14	68.66	66.61
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
I W C	10.18	19.17	14.87	9.27	8.99

2.3.8 Based on discussion in above sections, the fixed charges as approved by the Commission earlier in MYT and Review Order for FY 2014-19, as that claimed by the Petitioner and approved by the Commission in present True-up order is shown in the Table below:

Table 16: Annual Fixed Charges FY 2014-15 and FY 2015-16

(Figures in Rs Crore)

Station	FY 2014-15			
	MYT Order	Claimed	Approved	Difference
O&M expenses	70.20	70.20	70.20	
Depreciation	15.92	17.89	17.89	
Interest on term loans	5.78	7.85	8.53	
Interest on working capital	28.18	28.18	10.18	
Return on Equity	12.25	13.82	13.82	
Annual Fixed Charges	132.33	137.95	120.62	
Target Availability	75%	17.39%	17.39%	
Admissibility	30.68	31.98	27.97	-2.71
Scheduled generation (MU)	1290.74	298.73	298.73	



Truing up of Tariff for 2x110 MW Paricha TPS for the Period 2014-15 to FY 2018-19 for UPRVUNL

Station	FY 2015-16			
	MYT Order	Claimed	Approved	Difference
O&M expenses	73.13	73.13	73.13	
Depreciation	15.92	22.64	22.64	
Interest on term loans	3.78	12.05	12.68	
Interest on working capital	28.37	28.37	19.17	
Return on Equity	12.25	17.62	17.62	
Annual Fixed Charges	133.45	153.80	145.23	
Target Availability	75%	37.35%	37.35%	
Admissibility	66.46	76.59	72.32	5.86
Scheduled generation (MU)	1293.69	632.78	632.78	

Table 17: Annual Fixed Charges for FY 2016-17 and 2017-18

(Figures in Rs Crore)

Station	FY 2016-17			
	MYT Order	Claimed	Approved	Difference
O&M expenses	76.14	76.14	76.14	
Depreciation	15.92	25.60	25.60	
Interest on term loans	1.79	13.36	13.54	
Interest on working capital	28.46	28.46	14.87	
Return on Equity	12.25	19.95	19.95	
Annual Fixed Charges	134.56	163.51	150.11	
Target Availability	75%	48.43%	48.43%	
Admissibility	86.89	105.59	96.93	10.04
Scheduled generation (MU)	1290.74	408.71	408.71	

Station	FY 2017-18			
	MYT Order	Claimed	Approved	Difference
O&M expenses	79.27	79.27	69.70	
Depreciation	15.92	25.97	26.01	
Interest on term loans	0.40	10.98	10.98	
Interest on working capital	28.62	28.62	9.27	
Return on Equity	12.25	20.25	20.25	
Annual Fixed Charges	136.46	165.09	136.21	
Target Availability	75%	39.64%	39.64%	
Admissibility	72.12	87.25	71.99	-0.13
Scheduled generation (MU)	1290.74	239.64	239.64	

Table 18: Annual Fixed Charges for FY 2018-19

(Figures in Rs Crore)

Station	FY 2018-19			
	MYT Order	Claimed	Approved	Difference
O&M expenses	82.46	82.46	82.46	
Depreciation	15.92	26.27	26.31	
Interest on term loans	0.00	8.49	8.48	



Interest on working capital	28.81	28.81	8.99	
Return on Equity	12.25	20.54	20.54	
Annual Fixed Charges	139.44	166.57	146.78	
Target Availability	75%	69.59%	69.59%	
Admissibility	129.38	154.55	136.19	6.81
Scheduled generation (MU)	1290.74	147.59	147.59	

Table 19: Summary of Annual Fixed Charges for FY 2014-19
(Figures in Rs Crore)

Station	Total			
	MYT Order	Claimed	Approved	Difference
O&M expenses	381.20	381.19	371.63	
Depreciation	79.60	118.37	118.44	
Interest on term loans	11.75	52.72	54.21	
Interest on working capital	142.44	142.44	62.47	
Return on Equity	61.25	92.18	92.19	
Annual Fixed Charges	676.24	786.91	698.94	
Admissibility	385.54	455.97	405.40	19.86

2.4 Other Related Issues

2.4.1 Reimbursement of Actual Income Tax

The Commission has gone through its MYT Order dated 29.04.2016, Review Order dated 18.01.2017 and Generation Tariff Regulations 2014. The relevant clause of Regulations is reproduced below:

"9. Tax on Income:

(1) Tax on the income streams of the generating company from its core business, shall be computed as an expense and shall be permitted to be recovered from beneficiaries. Any income stream other than the core business shall not constitute a pass-through component in tariff and tax on such other income shall be payable by the generating company.

Provided that the generating station-wise profit before tax of the generating company, as estimated for a year in advance, shall constitute the basis for distribution of the corporate tax liability to all the generating stations.

Provided also that the benefits of tax-holiday as applicable in accordance with the provisions of the Income-Tax Act, 1961 shall be passed on to the beneficiaries.

Provided further that income-tax allocated to the thermal generating station shall be recovered in the same proportion as annual fixed charges, the income-tax allocated to the hydro generating station shall be recovered in the same proportion as annual capacity charges.

(2) **Notwithstanding anything contained in sub-regulation (1), total income tax payable to generating company, in any year, shall not be higher than the amount of:**

- (a) **Return on Equity allowed in that year X Minimum Alternative Tax (%), if company is paying such tax in any relevant year; or**



(b) Return on Equity allowed in that year X Corporate Tax (%), if company is paying such tax in any relevant year.

However, any income tax incidental due to payment of income tax in any preceding year shall be paid by the beneficiaries in subsequent year in addition to income tax at (a) & (b) above.

(3) Any under-recoveries or over-recoveries of tax on income shall be adjusted every year on the basis of income-tax assessment under the Income-Tax Act, 1961, as certified by the statutory auditors."

2.4.1.1 The UPERC Generation Tariff Regulations, 2014 prescribe maximum amount payable for reimbursement of Income Tax either @MAT rate or @Corporate Tax rate, as per applicability to the Company subject to production of details of actual payment made. Therefore, the Commission is of the view that UPPCL shall reimburse the claim of Income tax based on the provisions of Generation Tariff Regulations and the Commission's Order.

2.4.2 Reimbursement of UPSLDC & NRPC Fee

While perusing the details furnished along with the Petition, the Commission has observed that the total amount of Rs. 48.73 Crs is not verified by UPPCL which is pertaining to Income tax, on **which the Commission has already given its view above. Also, the Petitioner in response to the Commission's query has clarified that UPPCL has verified these bills.**

2.4.3 Interest on Income Tax

2.4.3.1 While perusing the details furnished along with the Petition, the Commission has observed that the total amount of Rs. 7.38 Cr is not verified by UPPCL which is pertaining to Interest on Income tax. It is a settled principle of law that interest on income tax charged due to failure in making timely payment of income tax is penal in nature cannot be reimbursed in tariff. In this regard, reliance is placed upon the judgment of the Hon'ble APTEL in Appeal Nos. 177 and 178 of 2012 in the case of **BS&S Rajdhani Power Limited & Ors. v. DERC**. The relevant extract of the said judgment is reproduced herein below for ready reference –

"38.1 **The State Commission has allowed the income tax after disallowing the penal interest of Rs. 2.28 crores paid by the Appellant to the income tax authorities.**

38.2 According to the Appellant, they were compelled to pay penal interest only because the State Commission in its MYT order dated 23.02.2008 allowed a negligible amount of Rs. 5 crores toward income tax for the entire control period as against the claim of Rs. 25.48 crores towards income tax made by the Appellant. In FY 2010-11, the Appellant actually incurred a tax expense of Rs. 36.88 crores and penal interest thereon of Rs. 2.28 crores. As the State Commission had not provided adequate income tax in the ARR, the penal interest on income tax should be allowed.



38.3 We are not convinced by the argument of the Appellant that penal interest should be allowed as the State Commission has not kept adequate provision for income tax in the ARR. The Appellant gets carryings cost on the revenue shortfall which also includes the shortfall in income tax. The Appellant cannot claim the penal interest on income tax as also carrying cost on the revenue deficit. **The Appellant is responsible to make full payment of income tax in time. In any case, the Appellant had paid the income tax alongwith penal charges despite the shortfall in revenue. Therefore, the argument for claim of penal interest on income tax is not valid and is rejected.**

2.4.3.2 Therefore, in view of above, it is clear that UPRVUNL in the present case cannot claim reimbursement of the penal charges paid by it due to delay in making the payment of income tax.

2.5 Sharing of Gains and Losses for the Period FY 2014-15 To FY 2018-19

2.5.1 The Petitioner submitted the sharing of the efficiency gains on account of the controllable parameters for the Control Period FY 2014-15 to 2018-19 as follows:

Table 20: Details of Sharing of Gains/Loss as submitted by the Petitioner for the period FY 2014-15 to FY 2018-19

(Figures in Rs. Crore)

Sr. No.	Financial Year	Variable Charges claimed from UPPCL	Fuel Cost as per Audited Accounts	Difference	Gain Sharing @20% with UPPCL
1	FY 2014-15	121.54	152.52	0	0
2	FY 2015-16	287.97	327.58	0	0
3	FY 2016-17	175.35	217.23	0	0
4	FY 2017-18	96.75	110.75	0	0
5	FY 2018-19	49.44	61.64	0	0
6	Total	731.05	869.72	0.00	0.00

The Petitioner further submitted to consider the above information of profit sharing with UPPCL as per UPERC Generation Tariff Regulations 2014. Accordingly, the Commission approves the above sharing of efficiency gain.

2.6 Carrying Cost

2.6.1 The Commission has worked out bank rate as per Regulation 16 (7) of UPERC Generation Tariff Regulation, 2014 as shown in Table below:

Table 21: Bank Rate

Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Bank Rate (SBI Base Rate +350 Basis Point) for respective FY	13.50%	13.50%	12.80%	12.60%	12.20%
	FY 2019-20	FY 2020-21	FY 2021-22	FY* 2022-23	
	12.55%	11.65%	10.90%	11.05%	



*Up to 31.07.2022

2.6.2 Summary of the carrying cost as approved by the Commission is shown below:

Table 22: Carrying Cost on AFC and Efficiency gain as approved by the Commission

(Figures in Rs. Crore)

Particular	FY 14-15	FY 15-16	FY 2016-17	FY 2017-18	FY 18-19
Opening Balance of Principal	0	-2.71	3.15	13.19	13.06
Addition on account of Fixed Charges true up	-2.71	5.86	10.04	-0.13	6.81
Gain Sharing	0	0	0	0	0
Closing Balance of Principal	-2.71	3.15	13.19	13.06	19.86
Average Balance	-1.36	0.22	8.17	13.12	16.46
Rate	13.50%	13.50%	12.80%	12.60%	12.20%
Carrying Cost on addition & Gain Sharing	-0.18	0.03	1.05	1.65	2.01
Particular	FY 19-20	FY 20-21	FY 21-22	FY 22-23*	Total
Opening Balance of Principal	19.86	19.86	19.86	19.86	
Addition on account of Fixed Charges true up	0	0	0	0	19.86
Gain Sharing	0	0	0	0	
Closing Balance of Principal	19.86	19.86	19.86	19.86	
Average Balance	19.86	19.86	19.86	19.86	
Rate	12.55%	11.65%	10.90%	11.05%	
Carrying Cost on addition & Gain Sharing	2.49	2.31	2.17	0.73	12.26

* up to 31.07.2022

2.7 Summary of our findings and directions:

2.7.1 In view of the above, the Commission directs that total amount of Rs. 32.12 Crore shall be payable by UPPCL to UPRVUNL in six equal monthly installments starting, within three months, from the date of this tariff



Order in line with Regulation 6(10) of UPERC Generation Tariff Regulations, 2014.

- 2.7.2 The Commission, in view of under-performance and exceeding the timeline of 31.03.2014 for R&M, decides that no further R&M expenditure shall be allowable for the Project.
- 2.7.3 The Petitioner has submitted few revised forms at the time of rejoinder; however, the tariff summary forms, and other related and linked forms are missing. The Petitioner shall, in future, take care to submit all the revised tariff forms along with summary, in case of submission of sought / additional details at the time of filing of rejoinder or otherwise.

With above directions, the Petitions are disposed of.

(Vinod Kumar Srivastava)
Member

(Kaushal Kishore Sharma)
Member

(Raj Pratap Singh)
Chairman

Place: Lucknow

Dated: 05.09.2022