



केन्द्रीय विद्युत विनियामक आयोग  
Central Electricity Regulatory Commission



Document Upload Information Acknowledgement

S.No.	Name	Regulation	Description	FileName	Ack No.	Ack Date.
1	Mr. ASHOK KUMAR PANDEY	Procedures for calculating the expected revenue from tariffs and charges Regulations,2010	Compliance of Regulation 3 of Central Electricity Regulatory Commission (Procedures for calculating the expected Revenue from tariffs and charges Regulations, 2010	CERC Submission.pdf	76/2017	Nov 30, 2017, 2:16 PM

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For CENTRAL ELECTRICITY REGULATORY COMMISSION

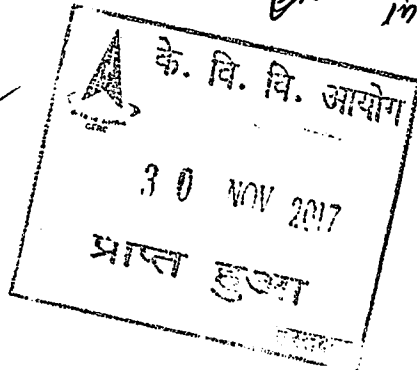
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31/11/17

30/11/17



Nov 30, 2017, 2:18 PM

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY**  
**COMMISSION, NEW DELHI.**

**IN THE MATTER OF**

Compliance of Regulation 3 (**Submission of Information**) of Central Electricity Regulatory Commission (Procedures for calculating the expected revenue from tariffs and charges) Regulations, 2010.

**AND IN THE MATTER OF**

NHPC Limited.

(A Govt. of India Enterprise)

NHPC Office Complex,

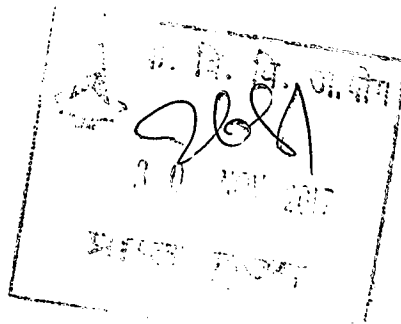
Sector – 33,

Faridabad – 121 003.

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**Place : Faridabad**  
**Date : 29.11.2017**



**NHPC Limited.**  
**Through**

**(A.K.Pandey)**  
**Chief Engineer (Comml.)**

Notary Stamps



**Indian-Non Judicial Stamp  
Haryana Government**



Date : 29/11/2017

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**Seller / First Party Detail**

Name: Nhpc limited

H.No/Floor : Ground

Sector/Ward : 33

LandMark : Nhpc office complex

City/Village : Faridabad

District : Faridabad

State : Haryana

Phone: 0129225655



**Buyer / Second Party Detail**

Name : Cerc

H.No/Floor : Third

Sector/Ward : 36

LandMark : Janpath

City/Village: New delhi

District : New delhi

State : Delhi

Phone : 0112335350

Purpose : SUBMISSION OF INFORMATION ON AFFIDAVIT TO CERC

The authenticity of this document can be verified by scanning this QR code through smart phone or on the website <https://egrashry.nic.in>

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY  
COMMISSION, NEW DELHI.**

**IN THE MATTER OF**

Compliance of Regulation 3 (Submission of Information) of Central Electricity Regulatory Commission (Procedures for calculating the expected revenue from tariff and charges) Regulations, 2010.

**AND IN THE MATTER OF**

NHPC Limited.

(A Govt. of India Enterprise)

NHPC Office Complex,

Sector – 33, Faridabad – 121 003.



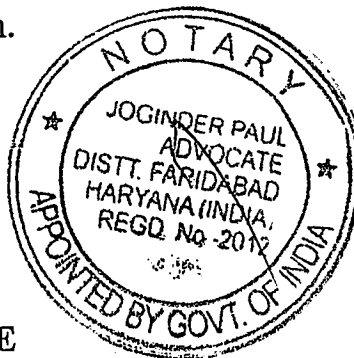
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**AFFIDAVIT VARIFYING THE DATA / INFORMATION**

I, Ashok Kumar Pandey S/o Late Sh. P. N. Pandey aged 58 years working as Chief Engineer (Commercial) in NHPC Ltd., the applicant in the above matter do solemnly affirm and state as follows:-

1. That I am working as Chief Engineer (Commercial) in NHPC Ltd., and am well acquainted with the facts of the above matter.
2. That the Hon'ble Commission through its notification, CERC (Procedure for calculating the expected revenue from tariffs and charges) Regulations, 2010 has directed to submit the data / information pertaining to expected revenue from Tariff & Charges by 30th November of every year. In compliance to the directions of the Commission, the requisite information is appended herewith as Annexure-A.
3. The information provided herein are true to my knowledge and belief and are based on documents / records available.

Solemnly affirmed at Faridabad on the 29<sup>th</sup> day of November, 2017 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed therefrom.




  
**DEPONENT**

**IDENTIFIED BEFORE ME**

**Execution And Identification  
Signatures/Thumb Impressions**

**ATTESTED AS IDENTIFIED**

  
Notary Faridabad (Haryana)  
3

**29 NOV 2017**

Information in respect of Expected Revenue from Tariff and Charges

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## Procedures for calculating the expected revenue from tariff and charges Regulations, 2010

FORM NO 2: Hydro

**Name of Utility: NHPC Ltd.**

**Name of Plant: Bairasiul Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	93.3	91.4	79.8	45.0
1b	Actual/Expected Auxiliary Energy Consumption	%	1.09%	1.09%	1.09%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	69.26	34.26	31.26	37.63
2b	Actual/Expected recovery of Return on Equity	₹ Cr	11.20	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	640.89	498.12	198.59	502.82
4	Actual/Expected energy rate	Paisa/kWh	98.40	96.30	96.30	101.80
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	55.50	42.21	16.83	45.04
6a	Actual UI generation	MU	21.49	24.23	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	5.27	5.78	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.
7. Duriing ensuing year 2018-19, power station is proposed to be under complete shutdown from Oct'2018 to March'2019 for R&M works.

## Procedures for calculating the expected revenue from tariff and charges Regulations, 2010

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Loktak Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	96.9	100.5	89.6	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	2.51%	2.28%	2.28%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	81.27	44.59	39.61	82.66
2b	Actual/Expected recovery of Return on Equity	₹ Cr	11.38	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	21.53	0.00	26.22	7.14
3	Actual/Expected Scheduled generation	MU	715.33	442.60	332.00	533.66
4	Actual/Expected energy rate	Paisa/kWh	182.60	192.40	192.40	192.50
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	71.27	74.94	0.15	75.13
6a	Actual UI generation	MU	3.54	2.37	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	1.12	0.65	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Salal Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	70.4	96.4	46.9	60.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.64%	0.59%	0.59%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	174.24	126.41	55.31	190.11
2b	Actual/Expected recovery of Return on Equity	₹ Cr	33.12	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	7.62	0.00	17.34	13.59
3	Actual/Expected Scheduled generation	MU	3235.75	2546.15	843.05	3301.94
4	Actual/Expected energy rate	Paisa/kWh	55.30	58.30	58.30	61.60
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	148.48	130.14	26.40	165.40
6a	Actual UI generation	MU	204.67	89.82	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	39.11	19.29	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

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**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Tanakpur Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	66.2	85.9	44.4	55.0
1b	Actual/Expected Auxiliary Energy Consumption	%	2.65%	1.98%	1.98%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	70.26	48.44	22.67	77.77
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-38.21	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	377.04	279.65	147.49	438.71
4	Actual/Expected energy rate	Paisa/kWh	148.20	156.80	156.80	164.50
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	50.26	39.36	19.59	63.51
6a	Actual UI generation	MU	42.01	20.20	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	10.33	5.02	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxiliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.



**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Chamera-I Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	98.0	100.2	92.6	90.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.71%	0.66%	0.66%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	170.49	90.07	82.60	174.32
2b	Actual/Expected recovery of Return on Equity	₹ Cr	117.21	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	38.73	20.85	38.08	56.60
3	Actual/Expected Scheduled generation	MU	2142.17	1912.27	476.43	2359.22
4	Actual/Expected energy rate	Paisa/kWh	108.20	110.90	110.90	114.10
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	156.59	160.19	0.31	165.13
6a	Actual UI generation	MU	63.29	41.28	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	13.57	10.25	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.



**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Uri Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	79.1	95.4	60.5	70.0
1b	Actual/Expected Auxiliary Energy Consumption	%	1.01%	0.94%	0.94%	1.20%
2a	Actual/Expected recovery of Capacity Charge including Incentive	₹ Cr	202.16	124.20	82.80	208.74
2b	Actual/Expected recovery of Return on Equity	₹ Cr	158.55	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	11.44	0.00	10.87	20.30
3	Actual/Expected Scheduled generation	MU	2730.94	1809.64	899.51	2836.96
4	Actual/Expected energy rate	Paisa/kWh	79.50	80.80	80.80	82.20
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	178.84	128.28	53.49	184.91
6a	Actual UI generation	MU	81.78	49.72	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	15.34	10.53	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Rangit Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	97.8	105.9	86.8	90.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.85%	0.75%	0.75%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	56.72	31.66	25.86	59.20
2b	Actual/Expected recovery of Return on Equity	₹ Cr	30.15	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.37	0.00
3	Actual/Expected Scheduled generation	MU	326.39	203.86	136.02	330.36
4	Actual/Expected energy rate	Paisa/kWh	176.90	183.00	183.00	190.10
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	50.81	32.83	21.16	55.27
6a	Actual UI generation	MU	15.77	6.98	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	3.63	1.54	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

*Am*

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Chamera-II Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	98.7	102.2	89.2	90.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.84%	0.71%	0.71%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	140.11	73.64	64.56	138.30
2b	Actual/Expected recovery of Return on Equity	₹ Cr	92.15	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	1391.76	1179.14	294.14	1452.66
4	Actual/Expected energy rate	Paisa/kWh	98.00	99.10	99.10	100.50
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	119.46	102.68	25.80	128.47
6a	Actual UI generation	MU	48.42	16.35	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	9.88	3.70	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Dhauliganga Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	82.6	100.9	89.0	90.0
1b	Actual/Expected Auxiliary Energy Consumption	%	1.39%	1.39%	1.39%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	135.59	83.80	71.10	124.54
2b	Actual/Expected recovery of Return on Equity	₹ Cr	13.85	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	920.27	865.97	211.06	1098.65
4	Actual/Expected energy rate	Paisa/kWh	149.80	151.10	151.10	121.50
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	120.89	114.89	28.32	117.47
6a	Actual UI generation	MU	23.39	18.06	Not predictable	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	5.68	4.88	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Dulhasti Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	95.3	101.2	89.8	90.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.95%	0.92%	0.92%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	496.13	260.54	228.06	476.07
2b	Actual/Expected recovery of Return on Equity	₹ Cr	325.96	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	24.30	0.00	35.13	19.67
3	Actual/Expected Scheduled generation	MU	2198.85	1616.81	710.69	2132.28
4	Actual/Expected energy rate	Paisa/kWh	282.70	278.60	278.60	274.90
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	468.67	395.91	65.97	455.74
6a	Actual UI generation	MU	59.59	18.44	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	10.76	3.92	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Teesta-V Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016-17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	95.1	100.4	91.6	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.90%	0.81%	0.81%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	289.91	152.34	136.94	286.17
2b	Actual/Expected recovery of Return on Equity	₹ Cr	185.97	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	10.81	0.00	18.33	0.00
3	Actual/Expected Scheduled generation	MU	2678.31	1893.17	880.07	2520.05
4	Actual/Expected energy rate	Paisa/kWh	115.90	116.00	116.00	116.30
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	259.25	193.25	66.22	257.91
6a	Actual UI generation	MU	74.04	47.47	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	15.82	11.07	Can't be estimated	

**Note:**

- Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
- Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
- The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
- AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
- Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
- The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.



**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

**Name of Utility: NHPC Ltd.**

**Name of Plant: Sewa-II Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	98.1	102.7	92.1	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	1.09%	0.95%	0.95%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	114.81	60.23	51.04	111.15
2b	Actual/Expected recovery of Return on Equity	₹ Cr	10.07	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	3.41	0.72
3	Actual/Expected Scheduled generation	MU	457.40	390.34	181.35	537.37
4	Actual/Expected energy rate	Paisa/kWh	216.40	216.40	216.40	216.40
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	85.85	73.24	26.20	99.44
6a	Actual UI generation	MU	9.48	11.24	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	3.79	3.01	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2013-14. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Chamera-III Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	80.1	98.7	88.9	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.80%	0.75%	0.75%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	190.69	117.86	107.96	222.49
2b	Actual/Expected recovery of Return on Equity	₹ Cr	14.19	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	892.76	860.96	159.75	1072.98
4	Actual/Expected energy rate	Paisa/kWh	212.30	212.30	212.30	212.30
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	164.90	159.02	29.51	198.18
6a	Actual UI generation	MU	17.30	12.45	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	4.00	3.30	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2013-14. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Chutak Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016-17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	57.4	91.0	27.8	50.0
1b	Actual/Expected Auxiliary Energy Consumption	%	5.87%	5.98%	5.98%	5.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	73.20	35.72	36.77	72.70
2b	Actual/Expected recovery of Return on Equity	₹ Cr	39.17	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	217.00	172.03	30.25	202.28
4	Actual/Expected energy rate	Paisa/kWh	399.90	413.60	413.60	413.10
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	73.19	61.90	10.89	72.70
6a	Actual UI generation	MU	NO UI ENERGY DUE TO OPERATION OF UNITS IN ISOLATION MODE			
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	0.00	0.00	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as endorsed by PDD J&K. The Expected PAF for period 2017-18 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as per CERC order.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 (including deemed generation) has been taken as annual design energy minus normative auxilliary consumption.
4. AFC of Power Station have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT/effective tax).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.
7. Actual generation during the year 2016-17 includes deemed generation of 176.2MU & actual generation during the year 2017-18 (upto Sept'2017) includes deemed generation of 154.3 MU.



**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: TLDP-III Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	89.5	62.5	95.2	85.0
1b	Actual/Expected Auxillary Energy Consumption	%	1.60%	1.52%	1.52%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	189.92	66.46	100.53	193.09
2b	Actual/Expected recovery of Return on Equity	₹ Cr	56.18	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	538.02	218.20	166.94	576.37
4	Actual/Expected energy rate	Paisa/kWh	309.70	309.70	309.70	309.70
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	164.96	66.90	51.19	176.72
6a	Actual UI generation	MU	9.48	4.57	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	1.62	1.13	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxillary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxillary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2013-14. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.
7. Power Station was under complete shutdown w.e.f. 12.07.2017 to 14.09.2017 due to Gorkha land agitators mob.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Nimoo Bazgo Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	81.41	98.24	52.69	65.00
1b	Actual/Expected Auxiliary Energy Consumption	%	5.16%	5.01%	5.01%	6.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	90.96	45.66	45.41	90.41
2b	Actual/Expected recovery of Return on Equity	₹ Cr	43.20	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	238.74	174.52	50.46	224.97
4	Actual/Expected energy rate	Paisa/kWh	441.30	465.30	465.30	461.90
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	90.97	69.90	21.17	90.40
6a	Actual UI generation	MU	NO UI ENERGY DUE TO OPERATION IN ISOLATED MODE			
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	0.00	0.00	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as endorsed by PDD J&K. The Expected PAF for period 2017-18 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as per CERC order.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 (including deemed generation) has been taken as annual design energy minus normative auxilliary consumption.
4. AFC of Power Station have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT/effective tax).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.
7. Actual generation during the year 2016-17 includes deemed generation of 150.6MU & actual generation during the year 2017-18 (upto Sept'2017) includes deemed generation of 139.5 MU.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

**FORM NO 2: Hydro**

**Name of Utility: NHPC Ltd.**

**Name of Plant: Uri-II Power Station**

**Stage:**

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	81.7	97.8	61.7	55.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.80%	0.78%	0.78%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	349.22	207.83	136.08	333.42
2b	Actual/Expected recovery of Return on Equity	₹ Cr	103.90	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	25.43	0.00	21.73	24.73
3	Actual/Expected Scheduled generation	MU	1438.53	889.32	498.51	1426.07
4	Actual/Expected energy rate	Paisa/kWh	243.20	241.50	241.50	237.30
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	234.92	186.54	46.74	229.22
6a	Actual UI generation	MU	22.92	12.26	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	4.85	2.87	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Parbati-III Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016-17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	53.5	89.6	30.9	68.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.72%	0.29%	0.29%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	129.82	91.42	58.82	155.34
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-2.86	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	666.68	591.83	95.16	678.39
4	Actual/Expected energy rate	Paisa/kWh	273.80	273.80	273.80	273.80
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	158.73	140.98	22.66	161.60
6a	Actual UI generation	MU	13.90	7.57	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	2.75	1.36	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2013-14. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.

## Procedures for calculating the expected revenue from tariff and charges Regulations, 2010

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: TLDP-IV Power Station

Stage:

Sl. No.	Particulars	Units	Previous Year (2016-17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	92.2	64.9	95.8	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	1.34%	1.40%	1.40%	1.00%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	87.11	38.82	57.16	109.04
2b	Actual/Expected recovery of Return on Equity	₹ Cr	7.88	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	581.49	286.78	206.23	698.23
4	Actual/Expected energy rate	Paisa/kWh	127.80	144.40	144.40	144.40
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	73.57	41.00	29.48	99.82
6a	Actual UI generation	MU	11.32	1.90	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	1.82	0.61	Can't be estimated	

**Note:**

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The actual PAF for the period April'17 to Sept'17 is as per REA published by respective RPCs. The Expected PAF for period 2016-17 (Oct to March) has been calculated based on actual PAF for Oct'17 and for period Nov'17 to Mar'18, PAF have been calculated based on expected Annual Maintenance period of Pondage /ROR type Power Stations.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2017-18 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2018-19 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. AFC of Power Stations have been taken as per CERC tariff order for 2014-19. The AFC has been grossed up with applicable tax rate (i.e. MAT / effective tax rate).
5. Actual recovery of ROE is after taking into account a) under recovery in AFC & b) under recovery in O&M expenses for F.Y. 2016-17.
6. The expected revenue for the period from Oct-2017 to Mar-2018 & year 2018-19 are based on expected PAFM & Schedule Energy.
7. The power station was under part year operation during FY 2016-17
8. Power Station was under complete shutdown w.e.f. 12.07.2017 to 14.09.2017 due to Gorkha land agitators mob.

*[Handwritten Signature]*



**Procedures for calculating the expected revenue from tariff and charges Regulations, 2010**

FORM NO 2: Hydro

Name of Utility: NHPC Ltd.

Name of Plant: Kishanganga HEP

Stage:

Sl. No.	Particulars	Units	Previous Year (2016- 17)	Current year 2017-18 (Apr-Sep)	Current year 2017-18 (Oct-Mar)	Ensuing Year (2018-19)
1a	Actual/Expected Availability	%	0.0	0.0	80.0	85.0
1b	Actual/Expected Auxiliary Energy Consumption	%	0.00%	0.00%	1.20%	1.20%
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	0.00	0.00	29.58	235.03
2b	Actual/Expected recovery of Return on Equity	₹ Cr	0.00	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design energy)	₹ Cr	0.00	0.00	0.00	0.00
3	Actual/Expected Scheduled generation	MU	0.00	0.00	222.00	1321.15
4	Actual/Expected energy rate	Paisa/kWh	0.00	0.00	159.60	159.60
5	Actual/Expected recovery of Energy Charges (for energy up to design energy)	₹ Cr	0.00	0.00	30.83	183.44
6a	Actual UI generation	MU	0.00	0.00	Can't be estimated	
6b	Actual UI rate	Paisa/kWh				
6c	Actual revenue from UI	₹ Cr	0.00	0.00	Can't be estimated	

**Note:**

1. During 2017-18, All 03 Units are expected to be commissioned by Third Quarter of FY 2017-18.
2. Auxilliary Consumption (%) has been taken as 1.2% as powerhouse is Underground type.
3. The expected PAF(%) equivalent to 85% and Expected Scheduled energy at sl. no. 3. for Oct to March 2018 & 2018-19 are based RE 2017-18 and BE 2018-19.
4. The expected revenue for the year 2017-18 & 2018-19 are based on expected PAFM & Schedule Energy.