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INDIA NON JUDICIAL

हरियाणा HARYANA

27AA 941272

Reg. No. 275

Date 26-11-12

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

IN THE MATTER OF

COMPLIANCE WITH CLAUSE 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.



27 NOV 2012

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Signature

DEPONENT

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① Electricity  
② 4/11/12  
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## AFFIDAVIT VARIFYING THE DATA / INFORMATION

I, Ravinder Raina S/o Late Sh. M. L. Raina aged 52 years working as Chief Engineer (Comml.) in NHPC Ltd., the applicant in the above matter do solemnly affirm and state as follows that:-

1. I am working as Chief Engineer (Comml.) in NHPC Ltd., and am well acquainted with the facts of the above matter.
2. 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 30<sup>th</sup> November every year. In compliance to the directions of the Commission, the requisite information is appended herewith as **Annex - 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 day of 26<sup>th</sup> November, 2011 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

IDENTIFIED THE DEPONENT  
Executors And His/Her  
Signature/Thumbs Impression

ATTESTED AS IDENTIFIED  
Notary Faridabad (Haryana)

26 NOV 2011



## Information in respect of Expected Revenue from Tariff and Charges

SL.NO	NAME OF STATION	PAGE NO
1	BAIRA SIUL	1
2	SALAL	2
3	TANAKPUR	3
4	CHAMERA-I	4
5	URI	5
6	CHAMERA-II	6
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13	CHAMERA-III	13

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

Form No. 2: Hydro

Name of Utility:

NHPC LTD

(A) Name of Plant:

Barasiul Power Station

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	94.90	99.3	91.9	85
1b	Actual/Expected Auxiliary Energy Consumption	%	1.72	1.92	1.92	1
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	54.72	28.84	26.81	52.31
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-14.29	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	0	2.08	-2.08	0
3	Actual/Expected Scheduled generation	MU	715.7	537.1	167.50	754.4
4	Actual/Expected energy Rate	Paise/kWh	72.00	73.40	73.40	77.10
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	54.73	37.19	8.28	51.18
6a	Actual UI generation	MU	2.3	-1.8	Can't be estimated	
6b	Actual UI rate	₹ Cr			Can't be estimated	
6c	Actual revenue from UI	₹ Cr	18.86	12.02	Can't be estimated	

Note:

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.



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

Form No. 2: Hydro

Name of Utility:  
(B) Name of Plant:

NHPC LTD  
Salal Power Station

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	63.7	88.7	21.7	60
1b	Actual/Expected Auxiliary Energy Consumption	%	-0.44	-0.43	1	1
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	140.44	92.75	23.02	131.21
2b	Actual/Expected recovery of Return on Equity	₹ Cr	59.31	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	7.64	5.4	-5.4	0
3	Actual/Expected Scheduled generation	MU	3228	2447.2	581.20	2970
4	Actual/Expected energy Rate	Paise/kWh	49.30	47.30	47.30	48.9
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	132.37	96.35	29.67	127.81
6a	Actual UI generation	MU	5.01	15.06	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	11.52	7.87	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC. Negative value is due to error in SEM.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

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

**Form No. 2: Hydro**

Name of Utility:  
(C) Name of Plant:

**NHPC LTD  
Tanakpur Power Station**

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	64.83	79.58	44.20	55.00
1b	Actual/Expected Auxiliary Energy Consumption	%	1.17	1.15	1.15	1.00
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	51.53	30.75	17.44	45.26
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-0.34	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	3.16	1.23	-0.23	0.00
3.00	Actual/Expected Scheduled generation	MU	481.50	294.50	167.40	438.60
4.00	Actual/Expected energy Rate	Paise/kWh	111.00	110.70	110.70	114.90
5.00	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	43.73	27.59	16.02	44.35
6a	Actual UI generation	MU	0.32	-1.13	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	2.06	1.61	Can't be estimated	

**Note:**

- Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
- Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC.
- The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
- The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
- Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
- Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
- The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
- Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.



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

Form No. 2: Hydro

Name of Utility:  
(D) Name of Plant:

NHPC LTD  
Chamera-I Power Station

Stage:						
S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	87.3	97.9	89.4	90
1b	Actual/Expected Auxiliary Energy Consumption	%	-0.04	-0.01	1.2	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	140.68	74.4	68.07	140.09
2b	Actual/Expected recovery of Return on Equity	₹ Cr	127.29	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	70.63	49.14	9.72	6.29
3	Actual/Expected Scheduled generation	MU	2649.4	1938.6	542.10	1733.9
4	Actual/Expected energy Rate	Paise/kWh	100.20	94.70	94.70	96.8
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	145.01	103.34	33.71	140.09
6a	Actual UI generation	MU	11.17	5.84	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	19.03	7.74	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC. Negative value is due to error in SEM.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while preparing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

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

Form No. 2: Hydro

Name of Utility:  
(E) Name of Plant:

NHPC LTD  
Uri Power Station

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	75.9	97.2	54.9	60
1b	Actual/Expected Auxiliary Energy Consumption	%	0.31	0	1.2	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	247	144.45	81.06	180.44
2b	Actual/Expected recovery of Return on Equity	₹ Cr	251.87	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	8.64	12.22	2.38	0
3	Actual/Expected Scheduled generation	MU	2681	1977.2	789.10	2556
4	Actual/Expected energy Rate	Paise/kWh	86.70	79.00	79.00	80.2
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	195.04	125.25	52.47	180.39
6a	Actual UI generation	MU	14.68	1.35	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	12.2	3.85	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC. Lower value is due to error in SEM.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.



**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
Form No. 2: Hydro

Name of Utility:  
(F) Name of Plant:

NHPC LTD  
Chamera-II Power Station

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	96.7	99.4	89.6	90
1b	Actual/Expected Auxiliary Energy Consumption	%	0.22	0.19	0.19	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	205.28	96.89	87.53	173.97
2b	Actual/Expected recovery of Return on Equity	₹ Cr	121.05			
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	2.29	7.46	-6.97	0
3	Actual/Expected Scheduled generation	MU	1514.9	1107.6	381.40	1453.3
4	Actual/Expected energy Rate	Paise/kWh	146.50	135.80	135.80	133.4
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	197.25	119.62	57.47	170.61
6a	Actual UI generation	MU	3.53	1.43	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	7.72	3.6	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

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**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
**Form No. 2: Hydro**

Name of Utility: **NHPC LTD**  
 (G) Name of Plant: **Dhauliganga Power Station**  
 Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	93.8	98.2	86.3	85
1b	Actual/Expected Auxiliary Energy Consumption	%	1.2	1.22	1.22	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	163.84	80.45	70.77	140.33
2b	Actual/Expected recovery of Return on Equity	₹ Cr	100.25	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	1.42	2.95	-2.95	0
3	Actual/Expected Scheduled generation	MU	1141.4	871.9	223.50	1068
4	Actual/Expected energy Rate	Paise/kWh	150.40	141.80	141.80	142.2
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	148.59	103.57	33.12	133.65
6a	Actual UI generation	MU	1.45	-0.33	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	4.04	3.72	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.



**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
**Form No. 2: Hydro**

Name of Utility:  
(H) Name of Plant:

**NHPC LTD**  
**Dulhasti Power Station**

Sl. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	96.2	101.1	69.8	90.00
1b	Actual/Expected Auxiliary Energy Consumption	%	0.95	1.04	1.04	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	581.45	277.02	193.85	497.44
2b	Actual/Expected recovery of Return on Equity	₹ Cr	475.57	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	19.63	9.51	3.88	0
3	Actual/Expected Scheduled generation	MU	2164.5	1503.7	570.00	1847.6
4	Actual/Expected energy Rate	Paise/kWh	328.30	303.20	303.20	300.1
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	544.27	365.16	137.5	487.93
6a	Actual UI generation	MU	13.14	6.31	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	37.61	15.55	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

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

Form No. 2: Hydro

Name of Utility: NHPC LTD  
(I) Name of Plant: Sewa -II Power Station

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	85.3	73.1	77.7	80.00
1b	Actual/Expected Auxiliary Energy Consumption	%	1.38	1.29	1.29	1
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	113.78	45.36	47.92	97.03
2b	Actual/Expected recovery of Return on Equity	₹ Cr	28.98	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	1.52	3.39	-3.39	0
3	Actual/Expected Scheduled generation	MU	550.6	290.6	130.20	527.6
4	Actual/Expected energy Rate	Paise/kWh	232.10	215.40	215.40	211.1
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	106.66	45.49	33.52	96.9
6a	Actual UI generation	MU	3.72	1.9	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	5.78	2.67	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while preparing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

*RV*



**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
**Form No. 2: Hydro**

Name of Utility:

**NHPC LTD**  
**Rangit Power Station**

(J) Name of Plant:

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	93.1	98.7	82.4	85.00
1b	Actual/Expected Auxiliary Energy Consumption	%	2.2	1.88	1.88	1
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	56.2	23.62	19.58	41.59
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-2.48	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	0.42	0.21	-0.21	0
3	Actual/Expected Scheduled generation	MU	341.2	198.1	119.80	329.7
4	Actual/Expected energy Rate	Paise/kWh	174.30	137.50	137.50	141
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	51.42	23.57	14.87	40.91
6a	Actual UI generation	MU	3.6	0.71	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	2.46	0.8	Can't be estimated	

Note:

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

PN

**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
**Form No. 2: Hydro**

Name of Utility: **NHPC LTD**  
 (K) Name of Plant: **Loktak Power Station**

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	80.1	91	88.1	85.00
1b	Actual/Expected Auxiliary Energy Consumption	%	1.81	2.31	2.31	1
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	47.39	27.83	26.75	54.31
2b	Actual/Expected recovery of Return on Equity	₹ Cr	-12.24	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	4.58	3.25	1.46	0
3	Actual/Expected Scheduled generation	MU	508.7	259.8	250.60	443.5
4	Actual/Expected energy Rate	Paise/kWh	129.00	132.80	132.80	139.2
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	50.37	24.96	26.87	54.33
6a	Actual UI generation	MU	5.2	-3.3	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	2.17	2.79	Can't be estimated	

Note:

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.
2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC.
3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.
4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .
5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).
6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.
7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.
8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.



**Procedures for calculating the expected revenue from tariffs and charges Regulations, 2010**  
**Form No. 2: Hydro**

Name of Utility: **NHPC LTD**  
(L) Name of Plant: **TEESTA-V Power Station**

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%	87.6	90.2	88	85.00
1b	Actual/Expected Auxiliary Energy Consumption	%	1.13	1.25	1.25	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr	273.78	130.29	126.05	243.75
2b	Actual/Expected recovery of Return on Equity	₹ Cr	300.67	Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr	0	5.75	-5.75	0
3	Actual/Expected Scheduled generation	MU	2526.7	1726.4	621.80	2480.9
4	Actual/Expected energy Rate	Paise/kWh	119.00	109.40	109.50	109
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr	264.59	159.8	66.43	237.97
6a	Actual UI generation	MU	12.07	3.43	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr	13.78	5.83	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxilliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxilliary consumption approved by CERC.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while prapraing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.

*M*

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

**Form No. 2: Hydro**

Name of Utility:  
(M) Name of Plant:

**NHPC LTD  
CHAMERA-III Power Station**

Stage:

S. No	Particulars	Unit	Previous Year	Current Year (Apr-Sep)	Current Year (Oct-Mar)	Ensuing Year
1a	Actual/Expected Availability	%		96.79	88.29	85.00
1b	Actual/Expected Auxiliary Energy Consumption	%		0.78	0.78	1.2
2a	Actual/Expected recovery of Capacity Charge including incentive	₹ Cr		46.56	80.73	171.87
2b	Actual/Expected recovery of Return on Equity	₹ Cr		Can't be estimated		
2c	Actual/Expected recovery of Incentive (Charges for energy beyond the Design Energy)	₹ Cr		2.02	-2.02	0
3	Actual/Expected Scheduled generation	MU		453.35	219.28	1072.97
4	Actual/Expected energy Rate	Paise/kWh		198.80	192.20	180.4
5	Actual/Expected recovery of Energy Charges (For energy up to design energy)	₹ Cr		73.58	39.07	168.41
6a	Actual UI generation	MU		(-0.04) & (65.3 MU Infirm Power)	Can't be estimated	
6b	Actual UI rate	Paise/kWh				
6c	Actual revenue from UI	₹ Cr		-0.13	Can't be estimated	

**Note:**

1. Availability at sl. no 1a. is expressed in terms of PAF (%). The Expected PAF for period 2012-13 (Oct to March) has been calculated based on actual PAF for Oct'12 and for period Nov'12 to Mar'13 PAF have been calculated based on expected Annual Maintenance period of Pondage type Power Stations and PLF corresponding to anticipated generation of ROR type Power Station of 2012-13. Actual PAF for period Apr'12 to Sep 2012 is provisional.

2. Expected Auxiliary Consumption(%) values at sl. no. 1b. for Oct to March 2012-13 have been taken as same as actual values of Current year (Apr-Sep). Auxiliary Consumption (%) for ensuing year 2013-14 has been taken as Normative auxiliary consumption approved by CERC.

3. The Expected Scheduled energy at sl. no. 3. for Oct to March 2012-13 has been calculated based on actual Scheduled energy for Oct'12 and 85% of "Very Good" MOU generation rating for 2012-13 from Nov'12 to Mar'13 considering the present trend of generation upto Oct'12.

4. The expected PAF(%) and Scheduled Energy (MU) for ensuing year 2013-14 has been taken from data submitted to CEA for finalization of MOU 2013-14 .

5. Figure for the period 2012-13 have been taken from Approved AFC ( on Current MAT rate ) and for the FY 2013-14 from Approved AFC (at applicable MAT rate of 2012-13).

6. Actual recovery of ROE is after taking 1. under recovery in AFC & 2. under recovery in O&M expenses for FY 2011-12.

7. The expected revenue for the period from Oct-2012 to Mar-2013 & year 2013-14 is based on the data provided by O&M Division with respect to PAFM, Schedule energy & Design energy while preparing of revised estimate 2012-13 & Budget Estimate 2013-14.

8. Current year actual sales & projected sales for 2012-13 & 2013-14 does not include water usage charges in respect of J&K power stations.