



Petition No : .....

## **Bongaigaon Thermal power Station(3x250 MW)**

**DETERMINATION OF TARIFF FOR THE PERIOD  
01.04.2019 TO 31.03.2024**

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

**PETITION NO.....**

**IN THE MATTER OF** : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Bongaigaon Thermal Power Station (3X250 MW)** for the period from 01.04.2019 to 31.03.2024.

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**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION**  
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**AND**  
**IN THE MATTER OF**

Petitioner: : NTPC Ltd.  
NTPC Bhawan  
Core-7, Scope Complex  
7, Institutional Area, Lodhi Road  
New Delhi-110 003.

Respondents:

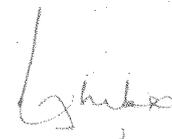
1. Assam Power Distribution Company Ltd  
Bijulee Bhawan, Paltan Bazar,  
Guwahati – 782 001
2. Meghalaya Energy Corporation Ltd  
Short Round Road,  
Shillong – 793 001
3. Department of Power  
Government of Arunachal Pradesh  
Itanagar
4. Power and Electricity Department  
Govt. of Mizoram  
Aizawal 796001



5. Manipur State Power Distribution Company Ltd.  
Khwai Bazar, Keishampat  
Imphal 795001
6. Department of Power  
Govt of Nagaland,  
Kohima
7. Tripura State Electricity Corporation Limited  
Bidyut Bhawan,  
North Banamalipur  
Agartala – 700 001

The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as '**Petitioner**' or '**NTPC**'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power stations/ projects at different regions and places in the country **Bongaigaon Thermal Power Station (3X250 MW)** (hereinafter referred to as '**BgTPS**') is one such station located in the State of Assam. The power generated from BgTPS is being supplied to the respondents herein above.
- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 (hereinafter 'Tariff Regulations 2019')



which came into force from 01.04.2019, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2019 to 31.03.2024.

5) Regulation 9(2) of Tariff Regulations 2019 provides as follows:

*“(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-24 along with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014.”*

The date of filing of Tariff Petition for the period 2019-24 has subsequently been extended by Hon'ble Commission vide order dated 28.10.2019 in Petition No. 331/MP/2019.

In terms of above, the Petitioner is filing the present petition for determination of tariff for **BgTPS** for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

6) The tariff of the Unit#1 (250 MW) of **BgTPS** for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 22.05.2017 in Petition No. 45/GT/2016 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. Further, Hon'ble Commission vide Review Order dated 23.07.2018 has rejected the certain aspect raised by petitioner. The Petitioner thereafter had filed an Appeal (being No. 137 of 2019) in Appellate Tribunal of Electricity on certain aspects of the order dated 22.05.2017. The appeal is under consideration of the Hon'ble Appellate Tribunal of Electricity. The petitioner vide affidavit dated 02.08.2019 had filed a amended true up petition for the period 01.04.2014 to 31.03.2019 for revision of tariff based on audited financial statement as on actual COD of Uni#2 and unit#3 in line with the applicable provisions of Tariff Regulations 2014.



- 7) The Hon'ble Commission vide order dated 22.05.2017 in Petition no 45/GT/2016 has allowed a capital cost of Rs 2247.69 Cr. as on 31.03.2019 corresponding to Unit#1 based on the admitted projected capital expenditure (uni#1) for the 2014-19 period. However, the actual closing capital cost as on 31.03.2019 has been worked out in the foresaid amended/true-up petition as Rs. 6272.99 Crs of all 03 units based on the actual expenditure after truing up exercise for the period 2014-19. Since, the Petitioner is not having admitted capital cost of all 03 units as on 31.03.2019, the opening capital cost as on 01.04.2019 has been considered as Rs 6272.99 Cr. in the instant petition as filed in true up petition filed vide affidavit dated 02.08.2019. The Hon'ble Commission may be pleased to accordingly adopt this capital cost as on 31.3.2019 and determine the tariff in the present petition for the period 2019-24.
- 8) The capital expenditure claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and estimated projected capital expenditures for the period 2019-24 based on the Regulation 19 and Regulation 24 and 25 of the Tariff Regulations, 2019.
- 9) The Petitioner further respectfully submits that as per Regulation 35(1)(6) of the Tariff Regulations 2019, the water charges, security expenses and capital spares consumed for thermal generating stations are to be allowed separately. Presently, petitioner is not claiming water charges as State Water authorities/department is not raising water bills. It is prayed that Hon'ble Commission may be pleased to give liberty to the petitioner to claim the same based on actuals at the time of truing up.
- 10) Security expenses are shown as zero in form 3A to match with this plea. Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24.



## FGD

- 11) It is submitted that the coal linkage for Bongaigaon TPS is from North Eastern Coalfields Limited (NECL) and Eastern Coalfields Limited (ECL). As per EC granted, the use of NECL coal requires desulphurization of flue gas before emission through stack in view of its high sulphur content. In view of the above, Flue Gas Desulfurization (FGD) system is being installed in Bongaigaon TPS units to minimize SO<sub>2</sub> emissions as a part of original scope of work of the project.
  
- 12) Further, the Ministry of Environment, Forest and Climate Change, Government of India ("MoEFCC") has notified the Environment (Protection) Amendment Rules, 2015 ("MoEFCC Notification") dated 07.12.2015, which mandates that all thermal power plants installed / to be installed, are required to comply with the revised emission norms as specified in the MOEF Notification. A copy of the notification dated 07.12.2015 is attached as **Annexure-A**. In the said notification, MOEF has further tightened the norms for SO<sub>x</sub> emissions. Therefore, in compliance of the said notification, change/modification of FGD is required in technical design to meet new norms. In view of the technical design changes, the work of FGD of Unit#1 is expected to complete within cut off date (Dec'21) but FGD of Unit#2 &3 is expected to be completed after cut off date i.e Sep'21 & Dec'21. This time line is as per the time line agreed by MOEF, GOI letter dated 22.04.2019(Attached as **Annexure-B**). In view of the above, Hon'ble Commission may be pleased to allow the expenditure of FGD beyond cut off date under Change in Law. In view of the above, it is prayed that Hon'ble Commission may be pleased to allow the expenditure on installation of FGD/ design change and relaxed operating norms on above account after the capitalization of FGD during tariff period 2019-24
  
- 13) It is submitted that the Auxiliary Power Consumption (APC) of each unit of Bongaigaon is expected to increase by approximately 3.1016 % due to installation of FGD. However, Hon'ble Commission, vide order dated 22.05.2017 in petition no 45/GT/2017, has allowed the additional APC of 1% for FGD in line with the additional APC allowed in case of VSTPS-V for FGD. However, liberty was also granted to approach the Hon' ble Commission at the time of true up.

- 14) In this regard, it is prayed that the technical specification of both FGDs of VSTPS-V and Bongaigaon TPS are entirely different. A comparison of both FGDs are as follows:

	Description	VSTPS-V	Bongaigaon TPS
1	Description	Flue gas desulphurization system	Flue gas desulphurization system
2	Manufacturer	Alstom India Ltd	Ducon Technologies Inc., USA and Ducon Technologies (I) Pvt Ltd
3	Sulphur content in Design coal	0.2 %	1.97 %
4	SO2 Removal efficiency	90.6 %	95.0 %
5	Limestone consumption	6,250 kg/hr for 500 MW	10,462 kg/hr for 250 MW. Therefore, lime stone consumption is around 2.5 times.
6	Specific Lime stone consumption	0.0162 Kg/Kwhr	0.0478 Kg/Kwhr
<b>Calculation of APC</b>			
7	Unit Capacity	500	250
8	Power Consumption in FGD of one unit (as per the certificate of OEM)	5.439 MW i.e. 1.09 %	4.050 MW i.e. 1.62 %
9	Maximum Continuous power demand of both ID Fans at Bongaigaon (2X3.695 MW)	ID Fans of this 500 MW are similar with other 500 MW units not having FGD. FGD has booster pump.	7.390 MW
10	Maximum Continuous power demand of both ID Fans at BRBCL Nabinagar (2X1.843 MW) having similar sized units of BHEL i.e. 250 MW but not having FGD		3.686 MW
11	Additional power consumption of ID Fan at Bongaigaon (9-10) due to FGD		3.704 MW i.e. 1.482 %
12	Additional power consumption in one Unit due to FGD (8+12)	5.439 MW	7.754 MW
13	Additional APC of Unit due to installation of FGD (Indicative)	1.09%	3.1016%
14	Normative APC	5.75%	9.0%
15	Total APC (Indicative)		12.1016%

*Handwritten signature*

In view of the above it is prayed that Hon'ble Commission may please allow additional APC of 3.1016% in case of installation and commissioning of FGD in Bongaigaon TPS

- 15) Further, Regulations 14 & 16(c) of Tariff Regulations, 2019 provide that energy charge shall cover the cost of primary and secondary fuel and cost of lime stone. Accordingly, the Petitioner has claimed the energy charge based on the landed price of coal & oil and the estimated landed price of limestone @ Rs.2000 per MT including transportation cost as provisionally allowed by Hon'ble Commission in tariff order dated 22.05.2017 in petition no 45/GT/2016. Further, in terms of Regulation 34(a)(i)&(ii) of Tariff Regulations, cost of limestone is also considered for computation IWC.
- 16) In addition to increase in APC, the installation of FGD will also result in additional O&M expenses for the station towards operation and maintenance of FGD. Regulation 35(7) Tariff Regulations, 2019 provides additional O&M on account of implementation of revised emission standards on case to case basis. Keeping in view that the capital cost of FGD is approximately 10% of project capital cost, the Petitioner has claiming additional O&M expenses of 10% of O&M norms as provided in of FGD after the commissioning of FGD.
- 17) The Hon'ble Commission has prescribed boiler efficiency and turbine heat rate separately for deriving the unit heat rate where the Unit Heat Rate is not guaranteed by the suppliers. It is submitted that the instant station was envisaged during the period 2004-09 and equipments including SG and TG specifications for tendering / award was stipulated considering the boiler efficiency and the turbine heat rate prescribed by the Hon'ble Commission in the Tariff Regulations at that time. Based on the same the equipments were ordered through international competitive bidding. It was not possible for the petitioner to specify the efficiency parameters at the time of finalizing the contracts on the instant station as per the efficiency parameters specified in Tariff Regulations 2019-24 which are more stringent.



In a similar case, Hon'ble Commission in its order dated 20.02.2014 in Petition No. 160/GT/2012 has considered the design parameters for computing Gross Heat Rate of the station with appropriate operating margin and has stated as under:

*"161. As per the guaranteed turbine cycle heat rate of 1945 kCal/kWh and boiler efficiency of 88.5% along with the deviation of 6.5 % as per the 2009 Tariff Regulations, the Gross Heat Rate works out to 2340.59 kcal/kWh. Without the margin of Auxiliary consumption of 6.5%, the Gross Heat Rate works out as 2197.74 kcal/kWh. In light of this, achieving a GSHR of 2220 kcal/kWh as per submission of the respondents 1 to 6 is not possible. Also, the EPC contract was finalized in 2006 and there was no possibility for the petitioner to specify the Station Heat Rate as per the 2009 Tariff Regulations. In view of above, we consider a GSHR of 2340.59 kCal/kWh based on guaranteed turbine cycle heat rate 1945 kCal/kWh and boiler efficiency of 88.5% with a deviation of 6.5 % from the guaranteed design value."*

Further, if the Petitioner had stipulated more stringent unit heat rate this would have increased the capital cost commensurate to the efficiency parameters sought. The benefit of the lower capital cost due to lower efficiency parameters has already been passed onto the beneficiaries in terms of lower capital cost. If now the boiler efficiency for working out the normative heat rate is considered as 86% instead of the actual design efficiency of 85.01% the unit heat rate would be worked out to be 2286.43 kcal/kwh and the operating margin available over the design heat rate would be 3.3% only which is much less than the operating margin of 5% allowed in the Tariff Regulations 2019. Moreover, it is submitted that boiler efficiency is largely a function of coal quality. In view of above submissions it is prayed that Gross Station Heat rate may be allowed based on guaranteed turbine cycle heat rate of 1943.70 and boiler efficiency of 85.01% with a operating margin of 5 % from the guaranteed design value. The tariff computation attached at Appendix-I is based on considering Station Heat Rate as per design heat rate with applicable operating margin of 5%.

- 18) The Petitioner has already paid the requisite filing fee vide UTR No. CMS 1106438370 on 22.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd 25.04.2019. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 70 (1) of Tariff Regulations 2019 provides that the

application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.

- 19) The petitioner has accordingly calculated the tariff for 2019-24 period based on the above and the same is enclosed as **Appendix-I** to this petition.
- 20) It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website i.e. [www.ntpc.co.in](http://www.ntpc.co.in)
- 21) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

### Prayers

In the light of the above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- i) Approve tariff of **Bongaigaon Thermal Power Station (3X250 MW)** for the tariff period 01.04.2019 to 31.03.2024.
- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.



- iv) Consider station heat rate based on design heat rate with applicable operating margin.
- v) Allow additional APC of 3.1016% and additional O&M expenses for FGD.
- vi) Allow the expenditure on design change/modification of FGD and relaxed operating norms on above account.
- vii) Relaxation in cut off date for installation of FGD.
- viii) Pass any other order as it may deem fit in the circumstances mentioned above.

**Place:** NEW DELHI

**Date** 31.01.2020

  
**Petitioner**

**BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION**  
**NEW DELHI**

**PETITION NO.....**

**IN THE MATTER OF :** Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Bongaigaon Thermal Power Station (3X250 MW)** for the period from **01.04.2019 to 31.03.2024**.

**AND**  
**IN THE MATTER OF**

**Petitioner:** : NTPC Ltd.  
NTPC Bhawan  
Core-7, Scope Complex  
7, Institutional Area, Lodhi Road  
New Delhi-110 003

**Respondents** 1 Assam Power Distribution Company Ltd  
Bijulee Bhawan, Paltan Bazar,  
Guwahati – 782 001

.....and Others



*[Handwritten signature]*

## AFFIDAVIT

I, Rohit Chhabra, son of Sh. S M Chhabra, aged about 54 years, having office at NTPC Bhavan, SCOPE Complex, Lodhi Road, New Delhi do solemnly affirm and state as under:

1. That I am the Addl. General Manager (Commercial) in Petitioner Corporation NTPC Ltd. and am well conversant with the facts of the case and am competent to swear the present affidavit.
2. That I have read the contents of the accompanying Petition being filed by NTPC and have understood the same.
3. That the contents of the accompanying Petition being filed by NTPC are based on information available with the Petitioner in the normal course of business and believed by the deponent to be true.

*[Handwritten Signature]*

**(DEPONENT)**

## VERIFICATION

I, the deponent above named, do hereby verify that the contents of the above affidavit are true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified at New Delhi on this day <sup>31<sup>st</sup></sup> January 2020.

*[Handwritten Signature]*

*[Handwritten Signature]*

**(DEPONENT)**



Solemnly affirmed and sworn to before me over & explained to the deponent

Notary Public, DELHI

15.1.2020

**TARIFF FILING FORMS (THERMAL)**

**FOR DETERMINATION OF TARIFF**

**FOR**

**Bongaiagon Thermal power Station(3x250 MW)**

**(From 01.04.2019 to 31.03.2024)**

**PART-I**

**APPENDIX-I**

**Checklist of Main Tariff Forms and other information for tariff filing for Thermal Stations**

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	✓
FORM -1 (I)	Statement showing claimed capital cost	✓
FORM -1 (II)	Statement showing Return on Equity	✓
FORM-2	Plant Characteristics	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM-3A**	Statement showing O&M Expenses	✓
FORM-3B**	Statement of Special Allowance	✓
FORM- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	✓
FORM- 7	Details of Project Specific Loans	✓
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9 ##	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	✓
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	✓
FORM- 15	Details of Fuel for Computation of Energy Charges	✓
FORM- 15A	Details of Secondary Fuel for Computation of Energy Charges	✓
FORM- 15B	Computation of Energy Charges	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	***
FORM- 18	Non-Tariff Income	***
FORM-19	Details of Water Charges	***
FORM-20	Details of Statutory Charges	***

## Provided yearwise for the period 2019-24

\*\* Additional Forms

\*\*\* Shall be provided at the time of true up

PART-I

**List of Supporting Forms / documents for tariff filing for Thermal Stations**

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM -H	Statement of Additional Capitalisation during end of the useful life	
FORM -I	Details of Assets De-capitalised during the period	***
FORM -J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM -K	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	***
FORM-M	Statement of Capital Woks in Progress	***
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	***
FORM-T	Summary of issues involved in the petition	✓

\*\*\* Shall be provided at the time of true up

*Lyons*

*N*

**List of supporting documents for tariff filing for Thermal Stations**

S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association ( For New Station setup by a company making tariff application for the first time to CERC)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years.	NA
	B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.	NA
	List of supporting documents to be submitted:	
	a. Detailed Project Report	
	b. CPM Analysis	
	c. PERT Chart and Bar Chart	
d. Justification for cost and time Overrun		
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	
9	Any other relevant information, (Please specify)	
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	**
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

Note \*\* Will be provided at the time of true up of petition.



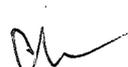
## Summary of Tariff

Name of the Petitioner:		NTPC Limited								
Name of the Generating Station:		Bongaigaon Thermal power Station(3x250 MW)								
Place (Region/District/State):		North Eastern Region/ Kokrajhar/ Assam								
		Amount in Rs. Lakhs								
S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8	9		
1.1	Depreciation	Rs Lakh	31,616.29	31,759.17	32,120.04	33,435.00	35,605.52	36,742.31		
1.2	Interest on Loan	Rs Lakh	30,579.68	29,850.91	27,687.88	26,519.55	26,294.83	24,656.32		
1.3	Return on Equity	Rs Lakh	37,181.31	35,505.29	35,908.72	37,378.79	39,805.33	41,076.22		
1.4	Interest on Working Capital	Rs Lakh	10,007.01	8,287.05	8,328.28	8,590.04	8,717.40	8,786.44		
1.5	O&M Expenses	Rs Lakh	22,882.50	30888.11	32029.92	33205.71	34440.71	35710.65		
1.6	Special Allowance (If applicable)	Rs Lakh	0.00	0.00	0.00	0.00	0.00	0.00		
1.7	Compensation Allowance (If applicable – relevant for column 4 only)	Rs. Lakh	-							
	<b>Total</b>	Rs Lakh	<b>132266.79</b>	<b>136290.52</b>	<b>136074.83</b>	<b>139129.09</b>	<b>144863.79</b>	<b>146971.93</b>		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton				5446.02				
	(%) of Fuel Quantity	(%)								
2.2	Landed Fuel Cost Imported Coal									
	(%) of Fuel Quantity									
2.3	Landed Fuel Cost ( coal/gas /RLNG/liquid) other than FSA	Rs/Ton								
	(%) of Fuel Quantity	(%)								
2.4	Landed Fuel Cost Imported Coal other than FSA.									
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit					0.027			
	Energy Charge Rate ex-bus	Rs/Unit						326.750		

*Signature*  
(Petitioner)

PART-I FORM- 1(I)						
Name of the Petitioner:		NTPC Limited				
Name of the Generating Station:		Bongaiaon Thermal power Station(3x250 MW)				
Amount in Rs. Lakhs						
<u>Statement showing claimed capital cost – (A+B)</u>						
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	627,299.67	632,959.67	641,619.67	685,139.67	727,749.67
2	Add: Addition during the year/period	5,660.00	8,660.00	43,520.00	42,610.00	2,500.00
3	Less: De-capitalisation during the year/period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-
6	Closing Capital Cost	632,959.67	641,619.67	685,139.67	727,749.67	730,249.67
7	Average Capital Cost	630,129.67	637,289.67	663,379.67	706,444.67	728,999.67
<u>Statement showing claimed capital cost eligible for RoE at normal rate (A)</u>						
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	627299.67	632959.67	641619.67	685139.67	727749.67
2	Add: Addition during the year / period	5660.00	8660.00	43520.00	42610.00	2500.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	632959.67	641619.67	685139.67	727749.67	730249.67
7	Average Capital Cost	630129.67	637289.67	663379.67	706444.67	728999.67
<u>Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)</u>						
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	0.00	0.00	0.00	0.00	0.00
2	Add: Addition during the year / period	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	0.00	0.00	0.00	0.00	0.00
7	Average Capital Cost	0.00	0.00	0.00	0.00	0.00

  
(Petitioner)



<b>Name of the Petitioner:</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station:</b>	<b>Bongaiagon Thermal power Station(3x250 MW)</b>

**Statement showing Return on Equity at Normal Rate**

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	<b>Return on Equity</b>					
1	Gross Opening Equity (Normal)	188,189.90	189,887.90	192,485.90	205,541.90	218,324.90
2	Less: Adjustment in Opening Equity	-				
3	Adjustment during the year		0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	188,189.90	189,887.90	192,485.90	205,541.90	218,324.90
5	Add: Increase in equity due to addition during the year / period	1698.00	2598.00	13056.00	12783.00	750.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	189,887.90	192,485.90	205,541.90	218,324.90	219,074.90
11	Average Equity (Normal)	189,038.90	191,186.90	199,013.90	211,933.40	218,699.90
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	<b>35,505.29</b>	<b>35,908.72</b>	<b>37,378.79</b>	<b>39,805.33</b>	<b>41,076.22</b>

  
(Petitioner)



Name of the Petitioner: NTPC Limited

Name of the Generating Station: Bongaiagon Thermal power Station(3x250 MW)

**Statement showing Return on Equity at Normal Rate**

Amount in Rs. Lakhs

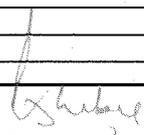
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)</b>						
1	Gross Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
5	Add: Increase in equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	0.00	0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	0.00
12	Rate of ROE (%)	9.627	9.618	9.613	9.657	9.652
13	Total ROE	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

  
(Petitioner)



## Plant Characteristics

Name of the Petitioner				NTPC Limited			
Name of the Generating Station				Bongaiaon Thermal power Station(3x250 MW)			
Unit(s)/Block(s)/Parameters		Unit-I		Unit-II		Unit-III	
Installed Capacity ( MW)		250		250		250	
Schedule COD as per Investment Approval		04.02.2011		04.06.2011		04.10.2011	
Actual COD /Date of Taken Over (as applicable)		01.04.2016 (Actual)		01.11.2017 (Actual)		26.03.2019 (Actual)	
Pit Head or Non Pit Head		Non Pit Head					
Name of the Boiler Manufacture		BHEL					
Name of Turbine Generator Manufacture		BHEL					
Main Steams Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) abs <sup>1</sup>		150.00					
Main Steam Temperature at Turbine inlet (°C) <sup>1</sup>		537.00					
Reheat Steam Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>		35.64					
Reheat Steam Temperature at Turbine inlet (°C) <sup>1</sup>		537.00					
Main Steam flow at Turbine inlet under MCR condition (tons /hr) <sup>2</sup>		737.58					
Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>		781.522					
Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>		250					
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>		265 at 0% Make up					
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>		1943.70					
Conditions on which design turbine cycle heat rate guaranteed( kcal/kwhr)							
% MCR		100 % MCR					
% Makeup Water Consumption		0					
Design Capacity of Make up Water System(% of throttle steam flow)		4000 CUBIC M/HR for all 3 units					
Design Capacity of Inlet Cooling System		28000		28000		28000	
Design Cooling Water Temperature (°C)		33 deg C					
Back Pressure(Average condenser pressure in mmHg(A))		0.1047 KSc					
Steam flow at super heater outlet under BMCR condition (tons/hr)		810					
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm <sup>2</sup> )		155					
Steam Temperature at super heater outlet under BMCR condition (°C)		540					
Steam Temperature at Reheater outlet at BMCR condition (°C)		540					
Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>		85.01					
Design Fuel with and without Blending of domestic/imported coal		Domestic Coal					
(GCV ) Domestic Design coal							
Blended Coal (Domestic Design 70%+ Imported 30%)							
Type of Cooling Tower		Induced Draft Cooling					
Type of cooling system <sup>5</sup>		Closed Circuit Cooling					
Type of Boiler Feed Pump <sup>6</sup>		Motor Driven					
Fuel Details <sup>7</sup>							
-Primary Fuel		Coal					
-Secondary Fuel		HFO/LDO					
-Alternate Fuels							
Special Features/Site Specific Features <sup>8</sup>							
Special Technological Features <sup>9</sup>							
Environmental Regulation related features <sup>10</sup>		1. FGD					
Any other special features							

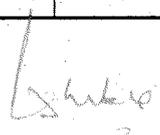
  
 Petitioner

**Normative parameters considered for tariff computations**

<b>Name of the Petitioner:</b>		NTPC Limited					
<b>Name of the Generating Station:</b>		Bongaiaon Thermal power Station(3x250 MW)					
							(Year Ending March)
Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity \$\$	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization** \$\$	%	-	7.944	7.937	7.933	7.970	7.965
Effective Tax Rate	%	21.4588	17.4720	17.4720	17.4720	17.4720	17.4720
Target Availability	%	85.00	85.00				
In High Demand Season	%	-	-	85.00	85.00	85.00	85.00
Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Off-Peak Hours	%	-	-	85.00	85.00	85.00	85.00
In Low Demand Season(Off-Peak)	%	-	-	85.00	85.00	85.00	85.00
Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Off-Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Auxiliary Energy Consumption	%	9.00	9.00	9.00	10.03	12.10	12.10
Gross Station Heat Rate	kCal/kWh	2361.80	2400.76	2400.76	2400.76	2400.76	2400.76
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC1	in Days	60	50	50	50	50	50
Cost of Main Secondary Fuel Oil for WC1	in Months	2	2	2	2	2	2
Fuel Cost for WC2	in Months						
Liquid Fuel Stock for WC2	in Months						
O&M Expenses	Rs lakh/MW	30.51	32.96	34.12	35.31	36.56	37.84
Maintenance Spares for WC	% of O&M	20.00	20.00	20.00	20.00	20.00	20.00
Receivables for WC	in Days	60	45	45	45	45	45
Storage capacity of Primary fuel	MT	360000			360000		
SBI 1 Year MCLR plus 350 basis point3	%	12.20	12.05	12.05	12.05	12.05	12.05
Blending ratio of domestic coal/imported coal							

\*\* Rate of Return on Add - cap beyond original scope and excluding Change in Law

\$\$ Additional RoE due to better ramp rate would be claimed at the time of true-up or as per guidelines to be issued

  
 Petitioner

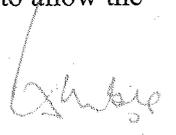
**Calculation of O&M Expenses**

<b>Name of the Company :</b>		<b>NTPC Limited</b>				
<b>Name of the Power Station :</b>		<b>Bongaiaon Thermal power Station(3x250 MW)</b>				
						<b>Amount in Rs. Lakhs</b>
S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	7	8
1	<b>O&amp;M expenses under Reg.35(1)</b>					
1a	Normative	24720.00	25590.00	26482.50	27420.00	28380.00
2	<b>O&amp;M expenses under Reg.35(6)</b>					
2a	Water Charges #	0.00	0.00	0.00	0.00	0.00
2b	Secutiry expenses*	3696.11	3880.92	4074.96	4278.71	4492.65
2c	Capital Spares**	0.00	0.00	0.00	0.00	0.00
3	O&M expenses-Ash Transportation**	0.00	0.00	0.00	0.00	0.00
4	Additioinal O&M due to FGD	2472.00	2559.00	2648.25	2742.00	2838.00
	<b>Total O&amp;M Expenses</b>	<b>30888.11</b>	<b>32029.92</b>	<b>33205.71</b>	<b>34440.71</b>	<b>35710.65</b>

\* Subject to true up

\*\*\* Shall be provided at the time of truing up

#Presently water charges are not billed by the concerned authority for consumptive water in the instant station. However as and when the same is billed by the Authority and paid by the Petitioner, the Petitioner shall approach the Hon'ble Commission for claim of the same. Hon'ble Commission may be pleased to allow the same.

  
**Petitioner**

**Abstract of Admitted Capital Cost for the existing Projects**

<b>Name of the Company :</b>	<b>NTPC Limited</b>	
<b>Name of the Power Station :</b>	<b>Bongaiaagon Thermal power Station(3x250 MW)</b>	
Last date of order of Commission for the project	<b>Date (DD-MM-YYYY)</b>	22/05/2017
Reference of petition no. in which the above order was passed	<b>Petition no.</b>	45/GT/2016
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		31.03.2019
Capital cost for Unit#1	<b>(Rs. in lakh)</b>	224769.48
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross Normative Debt		157,338.63
Cumulative Repayment		33,774.46
Net Normative Debt		123,564.17
Normative Equity		67,430.84
Cumulative Depreciation		33,774.46
Freehold land		495.00



**(Petitioner)**





Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiagon Thermal power Station Stage

Form-8

TRANCHE NO

BP NO 5050000351

T00001

D00003

Unsecured Loan From Canara Bank - III		
Source of Loan :	Canara Bank - III	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of Drawal :	15.12.2014	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00002- 8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	5 Years	
Moratorium effective from :	15.12.2014	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	20 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	28.09.2018	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	1,000,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000009 &amp; 231

T00001

D00004

Unsecured Loan From HDFC Bank Ltd.-II		
Source of Loan :	HDFC Bank Ltd.-II	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of drawl	27.01.2011	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00004=8.45%	
Margin, If Floating Interest :	D00004=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	27.01.2011	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.04.2014	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KAHALGAON II	150,000,000
	NCTPP-DADRI-II	400,000,000
	TAPOVAN VISHNUGARH	100,000,000
	BONGAIGAON	350,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000421

T00001

D00007

Unsecured Loan From HDFC Bank Ltd.-III		
Source of Loan :	HDFC Bank Ltd.-III	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal:	30.09.2016	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00005-8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	30.09.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	04.12.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	50,000,000
	MOUDA-II	150,000,000
	TELANGANA	200,000,000
	VINDHYACHAL-IV	100,000,000
	MOUDA-I	350,000,000
	BARH-I	450,000,000
	CHATTI BARIATU	50,000,000
	RAMMAM	50,000,000
	TAPOVAN VISHNUGAD	50,000,000
	SOLAPUR	550,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000421

T00001

D00008

Unsecured Loan From HDFC Bank Ltd.-III		
Source of Loan :	HDFC Bank Ltd.-III	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal:	10.10.2016	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00005-8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	10.10.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	04.12.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	500,000,000
	MOUDA-II	450,000,000
	TANDA-II	350,000,000
	SOLAPUR	700,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000</b>

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000021

T00001

D00001

Unsecured Loan From HUDCO LTD.		
Source of Loan :	HUDCO LTD-I	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of drawl	02.12.2010	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00001 - 8.30%	
Margin, If Floating Interest :	D00001 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	02.12.2010	
Repayment Period (Inc Moratorium) :	14 Years	
Repayment Frequency :	22 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	31.05.2014	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	150,000,000
	BARH-II	500,000,000
	MAUDA-I	350,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000153

T00001

D00003

Unsecured Loan From Indian Bank-II		
Source of Loan :	Indian Bank - II	
Currency :	INR	
Amount of Loan :	3,000,000,000	
Total Drawn amount :	1,500,000,000	
Date of Drawl	21.04.2011	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00003 - 8.25%	
Margin, If Floating Interest :	D00003 - 0%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	21.04.2011	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	29.12.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	MAUDA-I	300,000,000.00
	VINDHYACHAL IV	200,000,000.00
	BONGAIGAON	400,000,000.00
	KOLDAM	400,000,000.00
	RIHAND-III	200,000,000.00
<b>Total Allocated Amount</b>		<b>1,500,000,000.00</b>




Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000511

T00001

D00001

Unsecured Loan From Bank of Karnataka Bank		
Source of Loan :	Jammu & Kashmir Bank-IV	
Currency :	INR	
Amount of Loan :	7,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl:	31.03.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	Nil	
Moratorium effective from :	31.03.2017	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	2,100,000,000.00
	BONGAIGAON	620,000,000.00
	KUDGI	350,000,000.00
	MOUDA-II	360,000,000.00
	SOLAPUR	400,000,000.00
	TAPOVAN VISHNUGAD	460,000,000.00
	SIMHADRI-II	520,000,000.00
	PAKRI BARWADIH COAL MINE	190,000,000.00
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>



Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00023

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	3,500,000,000	
Date of Drawl	31.12.2010	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00023- 7.43%	
Margin, If Floating Interest :	D00023 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	31.12.2010	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-II	250,000,000.00
	MAUDA-I	250,000,000.00
	SIMHADRI-II	100,000,000.00
	VINDHYACHAL IV	250,000,000.00
	RIHAND-III	500,000,000.00
	BARH-I	1,000,000,000.00
	KOLDAM	100,000,000.00
	KORBA-III	250,000,000.00
	FARAKKA III	150,000,000.00
	NCTPP-DADRI-II	100,000,000.00
	TAPOVAN VISHNUGARH	150,000,000.00
	BONGAIGAON	400,000,000.00
<b>Total Allocated Amount</b>		<b>3,500,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00025

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	1,500,000,000	
Date of Drawl	17.03.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00025- 7.67%	
Margin, If Floating-Interest :	D00025 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	17.03.2011	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	250,000,000.00
	KORBA-III	250,000,000.00
	NCTPP-DADRI-II	400,000,000.00
	BONGAIGAON	600,000,000.00
<b>Total Allocated Amount</b>		<b>1,500,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00028

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawl	29.03.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00028-7.75%	
Margin, If Floating Interest :	D00028 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	29.03.2011	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	TAPOVAN VISHNUGARH	250,000,000.00
	SIMHADRI-II	500,000,000.00
	BONGAIGAON	1,250,000,000.00
<b>Total Allocated Amount</b>		<b>2,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00033

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	31.12.2011	
Interest Type :	Fixed with Reset after every 3 Years	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00033 - 8.98%	
Margin, If Floating Interest :	D00033 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	31.12.2011	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SIPAT-I	900,000,000.00
	BARH-I	650,000,000.00
	BARH-II	800,000,000.00
	MOUDA-I	470,000,000.00
	BONGAIGAON	250,000,000.00
	RIHAND-III	380,000,000.00
	FARAKKA-III	1,310,000,000.00
	KORBA-III	70,000,000.00
	SIPAT-II	40,000,000.00
	KAHALGAON-II	80,000,000.00
	UNCHAHAR R&M	50,000,000.00
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5070000011		TRANCHE NO T00001	D00035
<b>Unsecured Loan From PFC-V</b>			
Source of Loan :	PFC-V		
Currency :	INR		
Amount of Loan :	100,000,000,000		
Total Drawn amount :	2,500,000,000		
Date of Drawl	28.02.2012		
Interest Type :	Floating		
Fixed Interest Rate :	-----		
Base Rate, If Floating Interest	D00035 - 8.77%		
Margin, If Floating Interest :	D00035 -		
Are there any Caps/ Floor :	Y/N		
Frequency of Intt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	4 Years		
Moratorium effective from :	28.02.2012		
Repayment Period (Inc Moratorium) :	16 Years		
Repayment Frequency :	48 Quarterly Instalments		
Repayment Type :	FIFO		
First Repayment Date :	15.07.2013		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	SIMHADRI-II	400,000,000.00	
	BONGAIGAON	570,000,000.00	
	VINDHYACHAL-IV	1,530,000,000.00	
<b>Total Allocated Amount</b>		<b>2,500,000,000.00</b>	

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

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Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00038

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	4,500,000,000	
Date of Drawl	29.03.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00038 - 8.23%	
Margin, If Floating Interest :	D00038 -	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	29.03.2012	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	RIHAND-III	1,400,000,000.00
	PAKRI BARWADIH	350,000,000.00
	SIPAT-I	300,000,000.00
	SIMHADRI-II	1,150,000,000.00
	FARAKKA-III	450,000,000.00
	BARH-II	200,000,000.00
	BONGAIGAON	650,000,000.00
<b>Total Allocated Amount</b>		<b>4,500,000,000.00</b>

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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000261		TRANCHE NO T00001	D00003
<b>Unsecured Loan From SBI-VII</b>			
Source of Loan :	SBI-VII		
Currency :	INR		
Amount of Loan :	100,000,000,000		
Total Drawn amount :	5,000,000,000		
Date of drawl	21.04.2012		
Interest Type :	Floating		
Fixed Interest Rate :	-----		
Base Rate, If Floating Interest	D00003 - 8.25%		
Margin, If Floating Interest :	D00003 -		
Are there any Caps/ Floor :	Y/N		
Frequency of Intt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	4 Years		
Moratorium effective from :	21.04.2012		
Repayment Period (Inc Moratorium) :	12 Years		
Repayment Frequency :	16 Half Yearly Instalments		
Repayment Type :	AVG		
First Repayment Date :	30.09.2015		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	KOLDAM	710,000,000.00	
	TAPOVAN	520,000,000.00	
	BONGAIGAON	460,000,000.00	
	BARH-I	180,000,000.00	
	BARH-II	540,000,000.00	
	RIHAND-III	50,000,000.00	
	KUDGI-I	1,450,000,000.00	
	SOLAPUR	630,000,000.00	
	MOUDA-II	370,000,000.00	
	TANDA-R&M	90,000,000.00	
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>	

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00004

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	29.06.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00004-8.25%	
Margin, If Floating Interest :	D00004=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	29.06.2012	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	250,000,000.00
	BARH-I	900,000,000.00
	MOUDA-I	500,000,000.00
	VINDHYACHAL-IV	500,000,000.00
	RIHAND III	400,000,000.00
	KUDGI-I	150,000,000.00
	SOLAPUR	450,000,000.00
	MOUDA-II	1,850,000,000.00
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00006

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	28.09.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00006-8.25%	
Margin, If Floating Interest :	D00006=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	28.09.2012	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	450,000,000
	SIMHADRI-II	500,000,000
	VINDHYACHAL-IV	300,000,000
	SIPAT-I	750,000,000
	BARH-I	150,000,000
	MOUDA-I	200,000,000
	RIHAND III	200,000,000
	KUDGI-I	400,000,000
	MOUDA-II	500,000,000
	FARAKKA-III	150,000,000
	GANDHAR-R&M	400,000,000
	BONGAIGAON	1,000,000,000
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00007

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	12.11.2012	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00007-8.25%	
Margin, If Floating Interest :	D00007=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	12.11.2012	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	350,000,000
	SOLAPUR	250,000,000
	VINDHYACHAL-IV	200,000,000
	TAPOVAN	200,000,000
	BARH-I	800,000,000
	MOUDA-I	150,000,000
	RIHAND-III	450,000,000
	KUDGI-I	200,000,000
	DADRI SOLAR PV	50,000,000
	A&N SOLAR PV	50,000,000
	SINGARULI 8 MW	50,000,000
	BONGAIGAON	400,000,000
	BARH-II	800,000,000
	SINGRAULI-R&M	250,000,000
	TANDA - R&M	150,000,000
	KAWAS-R&M	350,000,000
	GANDHAR -R&M	200,000,000
	TSTPP-R&M	100,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Form 8  
TRANCHE NO

BP NO 5050000261

T00001

D00008

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	11.03.2013	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00008-8.25%	
Margin, If Floating Interest :	D00008=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	11.03.2013	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	350,000,000
	SOLAPUR	300,000,000
	VINDHYACHAL-V	380,000,000
	TAPOVAN	180,000,000
	BARH-I	570,000,000
	MOUDA-II	260,000,000
	RIHAND III	320,000,000
	KUDGI-I	380,000,000
	DADRI SOLAR PV	190,000,000
	A&N SOLAR PV	200,000,000
	LARA-I	200,000,000
	BONGAIGAON	340,000,000
	FARAKKA-III	270,000,000
	SIMHADRI-II	200,000,000
	SINGRAULI-R&M	100,000,000
	TTPS-R&M	150,000,000
	KAWAS-R&M	150,000,000
	GANDHAR-R&M	80,000,000
	TSTPP-R&M	100,000,000
	RAMAGUNDAM-R&M	80,000,000
	BADARPUR-R&M	200,000,000
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

T00001

D00010

BP NO 5050000261

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawl	01.05.2013	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00010-8.25%	
Margin, If Floating Interest :	D00010=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	01.05.2013	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KOLDAM	500,000,000
	BONGAIGAON	600,000,000
	SIMHADRI-II	900,000,000
<b>Total Allocated Amount</b>		<b>2,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00019

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of Drawal:	21.02.2014	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00019=8.25%	
Margin, If Floating Interest :	D00019=	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	21.02.2014	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	180,000,000
	BARH-I	180,000,000
	SOLAPUR	440,000,000
	BARH-II	200,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D0002

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal	30.01.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D0001-3 - 8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	30.01.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BONGAIGAON	1,000,000,000
	GADARWARA	1,000,000,000
<b>Total Allocated Amount</b>		<b>2,000,000,000.00</b>

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*Signature*

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000442 TRANCHE NO T00001 D0004

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	10,000,000,000	
Date of Drawal	04.08.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D0004-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	04.08.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-II	230,000,000
	BARH-I	450,000,000
	BONGAIGAON	610,000,000
	DARLIPALLI	680,000,000
	GADARWARA	1,250,000,000
	KOLDAM	290,000,000
	KUDGI-I	1,130,000,000
	LARA-I	1,650,000,000
	MOUDA-II	840,000,000
	NORTH KARANPURA	240,000,000
	RAMMAM	90,000,000
	SOLAPUR	1,110,000,000
	TANDA-II	70,000,000
	TAPOVAN VISHNUGARH	380,000,000
	UNCHAHAR-IV	410,000,000
	VINDHYACHAL-V	570,000,000
	<b>Total Allocated Amount</b>	<b>10,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000442

T00001

D0005

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal :	23.09.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D0005-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	23.09.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	200,000,000
	BONGAIGAON	100,000,000
	DARLIPALLI	550,000,000
	GADARWARA	1,550,000,000
	KUDGI	1,300,000,000
	LARA	450,000,000
	MOUDA-II	350,000,000
	SOLAPUR	300,000,000
	UNCHAHAR-IV	200,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000442		TRANCHE NO T00001	D0007
<b>Unsecured Loan From SBI-VIII</b>			
Source of Loan :	SBI-VIII		
Currency :	INR		
Amount of Loan :	100,000,000,000		
Total Drawn amount :	3,500,000,000		
Date of Drawal :	15.10.2015		
Interest Type :	Floating		
Fixed Interest Rate :	-----		
Base Rate, If Floating Interest	D0007-8.25%		
Loan Refinancing Spread	0.53%		
Are there any Caps/ Floor :	Y/N		
Frequency of Intt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	15.10.2015		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.01.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>	
	BARH-I	120,000,000	
	TAPOVAN VISHNUGAD	590,000,000	
	BONGAIGAON	110,000,000	
	SOLAPUR	430,000,000	
	LARA	900,000,000	
	GADARWARA	290,000,000	
	NORTH KARANPURA	50,000,000	
	DARLIPALLI	270,000,000	
	KUDGI-I	190,000,000	
	KOLDAM	100,000,000	
	VINDHYACHAL-V	450,000,000	
<b>Total Allocated Amount</b>		<b>3,500,000,000.00</b>	

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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaigon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000442

T00001

D0008

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal :	21.10.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest :	D0008-8.25%	
Loan Refinancing Spread :	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment :	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	21.10.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	540,000,000
	TAPOVAN VISHNUGAD	130,000,000
	BONGAIGAON	230,000,000
	BARH-II	220,000,000
	KUDGI-I	810,000,000
	MOUDA-II	250,000,000
	SOLAPUR	350,000,000
	VINDHYACHAL-V	130,000,000
	LARA-I	850,000,000
	GADARWARA	490,000,000
	UNCHAHAR-IV	100,000,000
	NORTH KARANPURA	80,000,000
	DARLIPALLI	340,000,000
	TANDA-II	260,000,000
	PAKRI BARWADIH	120,000,000
	RIHAND-III	100,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000</b>

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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00011

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	3,000,000,000	
Date of Drawal :	30.10.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00011-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	30.10.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	310,000,000
	BONGAIGOAN	300,000,000
	DARLIPALLI	160,000,000
	GADARWARA	720,000,000
	KHARGONE	50,000,000
	LARA-I	330,000,000
	MOUDA-II	260,000,000
	NORTH KARANPURA	80,000,000
	TANDA-II	150,000,000
	TAPOVAN VISHNUGARH	210,000,000
	UNCHAHAR-IV	70,000,000
	PAKRI BARWADIH	40,000,000
	CHATTI BARIATU	90,000,000
	SIMHADRI-II	120,000,000
	RAMAGUNDAM R&M	110,000,000
	<b>Total Allocated Amount</b>	<b>3,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00012

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	4,000,000,000	
Date of Drawal :	12.11.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00012-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	12.11.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	250,000,000
	BONGAIGAON	320,000,000
	DARLIPALLI	220,000,000
	GADARWARA	560,000,000
	KUDGI	300,000,000
	LARA	230,000,000
	MOUDA-II	440,000,000
	NORTH KARANPURA	170,000,000
	PAKRI BARWADIH	110,000,000
	SOLAPUR	620,000,000
	TANDA-II	150,000,000
	TAPOVAN VISHNUGAD	180,000,000
	UNCHAHAR-IV	120,000,000
	VINDHYACHAL-V	130,000,000
	MOUDA-I	200,000,000
	<b>Total Allocated Amount</b>	<b>4,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00013

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	4,000,000,000	
Date of Drawal :	01.12.2015	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00013-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	01.12.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	180,000,000
	BONGAIGOAN	140,000,000
	DARLIPALLI	450,000,000
	GADARWARA	500,000,000
	KUDGI	450,000,000
	LARA	720,000,000
	MOUDA-II	320,000,000
	SOLAPUR	450,000,000
	UNCHAHAR-IV	210,000,000
	RAMMAM	150,000,000
	BARH-II	180,000,000
	VINDHYACHAL-IV	130,000,000
	MOUDA-I	120,000,000
<b>Total Allocated Amount</b>		<b>4,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00014

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	3,000,000,000	
Date of Drawal :	01.01.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00014-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	01.01.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	90,000,000
	BONGAIGOAN	220,000,000
	DARLIPALLI	350,000,000
	KUDGI-I	670,000,000
	LARA-I	770,000,000
	PAKRI BARWADIH	160,000,000
	TANDA-II	250,000,000
	TAPOVAN VISHNUGARH	120,000,000
	UNCHAHAR STPP IV	100,000,000
	KHARGONE	170,000,000
	VINDHYACHAL-V	100,000,000
<b>Total Allocated Amount</b>		<b>3,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00015

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	1,500,000,000	
Date of Drawal :	29.01.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00015-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	29.01.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	350,000,000
	BONGAIGAON	200,000,000
	DARLIPALLI	200,000,000
	UNCHAHAR-IV	200,000,000
	GADARWARA	200,000,000
	MOUDA-II	200,000,000
	BARH-II	150,000,000
	<b>Total Allocated Amount</b>	<b>1,500,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00016

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal :	31.03.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00016-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	31.03.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	2,240,000,000
	BONGAIGAON	600,000,000
	MOUDA-II	290,000,000
	TAPOVAN VISHNUGARH	510,000,000
	SOLAPUR	360,000,000
	KUDGI-I	300,000,000
	ANANTPUR SOLAR	700,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00018

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	1,500,000,000	
Date of Drawl	21.04.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00018-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	21.04.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BONGAIGAON	700,000,000
	UNCHAHAR-IV	50,000,000
	RAMAGUNDAM R&M	150,000,000
	TSTPS R&M	210,000,000
	GANDHAR R&M	80,000,000
	KORBA R&M	60,000,000
	DADRI GAS R&M	100,000,000
	UNCHAHAR R&M	50,000,000
	BADARPUR R&M	50,000,000
	KAHALGAON R&M	50,000,000
<b>Total Allocated Amount</b>		<b>1,500,000,000</b>

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00019

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of Drawl	12.07.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00019-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	12.07.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BONGAIGAON	170,000,000
	LARA	220,000,000
	KHARGONE	610,000,000
	<b>Total Allocated Amount</b>	<b>1,000,000,000</b>




Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00021

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	2,500,000,000	
Date of Drawl	21.09.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00021-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	21.09.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BONGAIGAON	400,000,000
	MOUDA-II	150,000,000
	KUDGI	840,000,000
	BARH-II	80,000,000
	KOLDAM	180,000,000
	RIHAND-III	570,000,000
	VINDHYACHAL-IV	210,000,000
	MOUDA-I	70,000,000
	<b>Total Allocated Amount</b>	<b>2,500,000,000</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00024

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	11,500,000,000	
Date of Drawl	14.02.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00024-8.25%	
Loan Refinancing Spread	0.53%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	14.02.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	3,000,000,000
	BONGAIGAON	342,857,142
	FARAKKA III	142,857,141
	GADARWARA	2,500,000,000
	KOLDAM	928,571,427
	KORBA-III	28,571,428
	KUDGI	1,000,000,000
	MOUDA-I	407,142,856
	NCTPP-II	157,142,855
	NORTH KARANPURA	1,000,000,000
	RIHAND-III	321,428,570
	SIMHADRI-II	532,857,141
	SIPAT-I	214,285,711
	SIPAT-II	57,142,856
	TAPOVAN VISHNUGAD	500,000,000
	VINDHYACHAL IV	324,285,714
	PAKRI BARWADIH	42,857,159
	<b>Total Allocated Amount</b>	<b>11,500,000,000</b>

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*Exhibitor*

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

T00001

D0001

BP NO 5050000531

Unsecured Loan From SBI-IX		
Source of Loan :	SBI-IX	
Currency :	INR	
Amount of Loan :	30,000,000,000	
Total Drawn amount :	3,000,000,000	
Date of Drawal:	17.04.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	17.04.2017	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	400,000,000
	TAPOVAN VISHNUGARH	270,000,000
	BONGAIGAON	360,000,000
	SINGRAULI8 MW SMALL HYDRO	60,000,000
	GADARWARA	580,000,000
	DARLIPALLI	730,000,000
	RAMMAM	130,000,000
	KUDGI	470,000,000
<b>Total Allocated Amount</b>		<b>3,000,000,000.00</b>

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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000531

T00001

D0002

Unsecured Loan From SBI-IX		
Source of Loan :	SBI-IX	
Currency :	INR	
Amount of Loan :	30,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal:	04.05.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	17-Apr-17	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	540,000,000
	TAPOVAN VISHNUGARH	160,000,000
	BONGAIGAON	200,000,000
	LARA	220,000,000
	GADARWARA	120,000,000
	TELANGANA	160,000,000
	KOLDAM	100,000,000
	PAKRI BARWADIH CMB	500,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000.00</b>

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000531

T00001

D0007

Unsecured Loan From SBI-IX		
Source of Loan :	SBI-IX	
Currency :	INR	
Amount of Loan :	30,000,000,000	
Total Drawn amount :	4,000,000,000	
Date of Drawal:	29.05.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	17-Apr-17	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	800,000,000
	TAPOVAN VISHNUGARH	300,000,000
	BONGAIGAON	400,000,000
	SOLAPUR	200,000,000
	GADARWARA	1,400,000,000
	NORTH KARANPURA	900,000,000
	<b>Total Allocated Amount</b>	<b>4,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000531		TRANCHE NO	D0008
Unsecured Loan From SBI-IX			
Source of Loan :	SBI-IX		
Currency :	INR		
Amount of Loan :	30,000,000,000		
Total Drawn amount :	5,000,000,000		
Date of Drawal:	20.06.2018		
Interest Type :	Floating		
Fixed Interest Rate :	-----		
Base Rate, If Floating Interest	8.25%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Intt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	17-Apr-17		
Repayment Period (Inc Moratorium) :	12 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.03.2021		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	800,000,000	
	TAPOVAN VISHNUGARH	200,000,000	
	BONGAIGAON	80,000,000	
	TANDA II	120,000,000	
	RAMMAM	200,000,000	
	TELANGANA	450,000,000	
	MAUDA-II	1,200,000,000	
	BHADLA SOALR PV	350,000,000	
	ROJAML WIND	50,000,000	
	PAKRI BARWADIH CMB	1,200,000,000	
	CHATTI BARIATU CMP	90,000,000	
	DULANGA COAL MINE	130,000,000	
	TALAI PALI COAL MINE	130,000,000	
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>	

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000531

T00001

D0010

Unsecured Loan From SBI-IX		
Source of Loan :	SBI-IX	
Currency :	INR	
Amount of Loan :	30,000,000,000	
Total Drawn amount :	13,700,000,000	
Date of Drawal:	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	17-Apr-17	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	CC F&A	6,850,000,000
	BARH-I	400,000,000
	TAPOVAN VISHNUGARH	150,000,000
	BONGAIGAON	150,000,000
	SOLAPUR	200,000,000
	LARA-I	550,000,000
	GADARWARA	1,000,000,000
	NORTH KARANPURA	600,000,000
	DARLIPALLI	450,000,000
	TANDA II	600,000,000
	RAMMAM	100,000,000
	KHARGONE	750,000,000
	TELANGANA	750,000,000
	TTPS R&M	100,000,000
	VINDHYACHAL R&M	100,000,000
	FARAKKA R&M	500,000,000
	DADRI GAS R&M	450,000,000
	<b>Total Allocated Amount</b>	<b>13,700,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000551 TRANCHE NO T00001 D00001

Unsecured Loan From SBI-X		
Source of Loan :	SBI- X	
Currency :	INR	
Amount of Loan :	40,000,000,000	
Total Drawn amount :	10,000,000,000	
Date of Drawal:	25.09.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25.09.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	2,409,700,000
	TAPOVAN VISHNUGARH	550,400,000
	BONGAIGAON	2,110,300,000
	SOLAPUR	1,496,600,000
	LARA	489,000,000
	GADARWARA	762,500,000
	UNCHAHAH STPP IV	300,000,000
	NORTH KARANPURA	1,020,000,000
	DARLIPALLI	600,000,000
	TANDA-II	261,500,000
	<b>Total Allocated Amount</b>	<b>10,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000551

T00001

D00003

Unsecured Loan From SBI-X		
Source of Loan :	SBI-X	
Currency :	INR	
Amount of Loan :	40,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal:	11.12.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25-Sep-17	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	TAPOVAN VISHNUGARH	300,000,000
	BONGAIGAON	200,000,000
	SOLAPUR	600,000,000
	LARA	500,000,000
	GADARWARA	400,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000551

T00001

D00008

Unsecured Loan From SBI-X		
Source of Loan :	SBI-X	
Currency :	INR	
Amount of Loan :	40,000,000,000	
Total Drawn amount :	6,000,000,000	
Date of Drawal:	31.03.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25-Sep-17	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	1,630,000,000
	TAPOVAN VISHNUGARH	470,000,000
	BONGAIGAON	390,000,000
	KUDGI	2,050,000,000
	LARA	50,000,000
	SOLAPUR	1,230,000,000
	PAKRI BARWADIH CMB	180,000,000
	<b>Total Allocated Amount</b>	<b>6,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage  
Form 8

Form-8

BP NO 5050000661

TRANCHE NO

T00001

D00001

Unsecured Loan From SBI-XI		
Source of Loan :	SBI-XI	
Currency :	INR	
Amount of Loan :	50,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal:	11.10.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.35%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	11.10.2018	
Repayment Period (Inc Moratorium):	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	750,000,000
	TAPOVAN VISHNUGARH	320,000,000
	BONGAIGAON	220,000,000
	SOLAPUR	220,000,000
	LARA-I	1,200,000,000
	GADARWARA	1,000,000,000
	RAMMAM	100,000,000
	CHATTI BARIATU CMB	190,000,000
	TANDA II	1,000,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

OR

*Signature*

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000661

T00001

D00003

Unsecured Loan From SBI-XI		
Source of Loan :	SBI-XI	
Currency :	INR	
Amount of Loan :	50,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal:	12.11.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.35%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	12.11.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	2,850,000,000
	TAPOVAN VISHNUGARH	780,000,000
	BONGAIGAON	270,000,000
	SOLAPUR	990,000,000
	LARA-I	60,000,000
	GADARWARA	50,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000741

T00001

D00001

Unsecured Loan From SBI-XII		
Source of Loan :	SBI-XII	
Currency :	INR	
Amount of Loan :	50,000,000,000	
Total Drawn amount :	7,500,000,000	
Date of Drawal:	11.02.2019	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.35%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	11.02.2019	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2026	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	1,300,000,000.00
	TAPOVAN VISHNUGARH	150,000,000.00
	BONGAIGAON	650,000,000.00
	SOLAPUR	400,000,000.00
	GADARWARA	900,000,000.00
	DARLIPALLI	600,000,000.00
	TANDA-II	500,000,000.00
	KHARGONE	900,000,000.00
	TELANGANA	700,000,000.00
	CHATTI BARIATU	150,000,000.00
	DULANGA	200,000,000.00
	TALAIPALI	800,000,000.00
	NCPS-FGD	250,000,000.00
	<b>Total Allocated Amount</b>	<b>7,500,000,000.00</b>



Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigang Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000571

T00001

D00005

Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	26.09.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	01.02.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	1,100,000,000.00
	BONGAIGAON	1,000,000,000.00
	KUDGI-I	350,000,000.00
	LARA-I	150,000,000.00
	PAKRI BARWADIH	350,000,000.00
	SOLAPUR	400,000,000.00
	TAPOVAN VISHNUGARH	400,000,000.00
	TANDA II	1,250,000,000.00
	<b>Total Allocated Amount</b>	<b>5,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000711

T00001

D00001

Unsecured Loan From Punjab National Bank-IV		
Source of Loan :	Punjab National Bank-IV	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	20,000,000,000	
Date of Drawl	01.01.2019	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	01.01.2019	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	UNCHAHR STPP IV	650,000,000.00
	TANDA-II	850,000,000.00
	NCTPP-II	364,300,000.00
	DADRI GAS R&M	560,000,000.00
	KORBA-III	150,000,000.00
	SIPAT-II	171,400,000.00
	FARAKKA-III	85,700,000.00
	KAHALGAON-II	171,400,000.00
	BARH-I	1,085,700,000.00
	BARH-II	80,000,000.00
	NORTH KARANPURA	1,090,000,000.00
	KOLDAM	64,300,000.00
	TAPOVAN VISHNUGAD	285,700,000.00
	PAKRI BARWADIH	1,420,000,000.00
	CHATTI BARIATU	100,000,000.00
	BONGAIGAON	364,300,000.00
	KUDGI	600,000,000.00
	LARA	1,230,000,000.00
	GADARWARA	2,277,200,000.00
	DARLIPALLI	2,730,000,000.00
	KHARGONE	500,000,000.00
	ANANTPUR SOLAR	170,000,000.00
	TALAIPALI COAL MINE	5,000,000,000.00

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

Total Allocated Amount	20,000,000,000.00
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Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaiaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000521

T00001

D00003

Unsecured Loan From HDFC Bank Ltd.-IV		
Source of Loan :	HDFC Bank Ltd.-IV	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of drawl	01.09.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	17.04.2017	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	17.04.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	400,000,000
	MANDSAUR SOLAR PV	300,000,000
	MOUDA-II	300,000,000
	LARA	1,000,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000</b>

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Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000561

T00001

D00003

Unsecured Loan From HDFC Bank Ltd. V		
Source of Loan :	HDFC Bank Ltd. V	
Currency :	INR	
Amount of Loan :	25,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of drawl	13.11.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25.09.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	25.09.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SOLAPUR	770,000,000
	PAKRI BARWADIH COAL MINE	260,000,000
	BONGAIGAON	270,000,000
	TELANGANA	120,000,000
	BARH - II	100,000,000
	ROJMAL WIND	150,000,000
	LARA	100,000,000
	CHATTI BARIATU CMB	150,000,000
	DULANGA COAL MINE	80,000,000
	<b>Total Allocated Amount</b>	<b>2,000,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000561

T00001

D00007

Unsecured Loan From HDFC Bank Ltd. V		
Source of Loan :	HDFC Bank Ltd. V	
Currency :	INR	
Amount of Loan :	25,000,000,000	
Total Drawn amount :	1,500,000,000	
Date of drawl	01.01.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25.09.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	25.09.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGOAN	110,000,000
	DARLIPALLI	250,000,000
	RAMMAM	100,000,000
	KHARGONE	770,000,000
	BHADLA SOLAR PV	20,000,000
	ROJMAL WIND	30,000,000
	MOUDA-II	220,000,000
	<b>Total Allocated Amount</b>	<b>1,500,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaiaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000561

T00001

D00008

Unsecured Loan From HDFC Bank Ltd. V		
Source of Loan :	HDFC Bank Ltd. V	
Currency :	INR	
Amount of Loan :	25,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of drawl	31.01.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25.09.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	25.09.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGOAN	420,000,000
	TAPOVAN VISHNUGARH	520,000,000
	GADARWARA	60,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000561

T00001

D00010

Unsecured Loan From HDFC Bank Ltd. V		
Source of Loan :	HDFC Bank Ltd. V	
Currency :	INR	
Amount of Loan :	25,000,000,000	
Total Drawn amount :	7,300,000,000	
Date of drawl	26.09.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify.Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	25.09.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	25.09.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	600,000,000
	BONGAIGAON	120,000,000
	LARA-I	2,350,000,000
	SOLAPUR	370,000,000
	TAPOVAN VISHNUGARH	250,000,000
	TELANGANA	800,000,000
	KHARGONE	1,350,000,000
	GADARWARA	850,000,000
	FARAKKA	610,000,000
	<b>Total Allocated Amount</b>	<b>7,300,000,000</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 50500000451

T00001

D00010

Unsecured Loan From ICICI-IV		
Source of Loan :	ICICI-IV	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	2,250,000,000	
Date of Drawal	04.08.2017	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00010 -8.60%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	04.08.2017	
Repayment Period (Inc Moratorium) :	15 years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	16.02.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	KOLDAM	64,300,000.00
	FARAKKA-III	85,700,000.00
	NCTPP-II	364,300,000.00
	TAPOVAN VISHNUGAD	85,700,000.00
	BONGAIGAON	364,300,000.00
	SIPAT-II	171,400,000.00
	KAHALGAON-II	171,400,000.00
	BARH-I	685,700,000.00
	KORBA-III	150,000,000.00
	GADARWARA	107,200,000.00
	<b>Total Allocated Amount</b>	<b>2,250,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000311

T00001

D00001

Unsecured Loan From Syndicate Bank III		
Source of Loan :	Syndicate Bank-III	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	500,000,000	
Date of Drawl	01.06.2012	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00001- 8.45%	
Margin, If Floating Interest :	D00001= Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	01.06.2012	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly	
Repayment Type :	Average	
First Repayment Date :	01.12.2016	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	200,000,000.00
	SIPAT-I	300,000,000.00
<b>Total Allocated Amount</b>		<b>500,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

## Statement Giving Details of Project Financed through a Combination of loan

Form 8

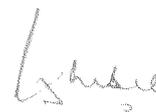
TRANCHE NO

BP NO 5050000311

T00001

D00007

Unsecured Loan From Syndicate Bank-III		
Source of Loan :	Syndicate Bank-III	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	700,000,000	
Date of Drawal:	23.10.2013	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00007- 8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	23.10.2013	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly	
Repayment Type :	Average	
First Repayment Date :	01.12.2016	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	700,000,000
<b>Total Allocated Amount</b>		<b>700,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000311	TRANCHE NO T00001	D00008
Unsecured Loan From Syndicate Bank-III		
Source of Loan :	Syndicate Bank-III	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	500,000,000	
Date of Drawal:	15.01.2014	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00008- 8.45%	
Margin, If Floating Interest :	Nil	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	15.01.2014	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly	
Repayment Type :	Average	
First Repayment Date :	01.12.2016	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	500,000,000
<b>Total Allocated Amount</b>		<b>500,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

BP NO 5050000311

TRANCHE NO  
T00001

D00010

Unsecured Loan From Syndicate Bank-III		
Source of Loan :	Syndicate Bank-III	
Currency :	INR	
Amount of Loan :	10,000,000,000	
Total Drawn amount :	2,000,000,000	
Date of Drawal:	01.05.2014	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00009- 8..45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	01.05.2014	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly	
Repayment Type :	Average	
First Repayment Date :	01.12.2016	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	1,000,000,000
	BARH-II	1,000,000,000
<b>Total Allocated Amount</b>		<b>2,000,000,000.00</b>

Name of the Company :  
Name of the Power Station :

NTPC Limited  
Bongaigaon Thermal power Station Stage

Form-8

Statement Giving Details of Project Financed through a Combination of loan  
Form 8

TRANCHE NO

BP NO 5050000321

T00001

D000011

Unsecured Loan From Union Bank of India-II		
Source of Loan :	Union Bank of India - II	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	1,000,000,000	
Date of Drawal:	22.07.2014	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D000011-8.50%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	22.07.2014	
Repayment Period (Inc Moratorium) :	14 Years	
Repayment Frequency :	20 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	01.02.2017	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	500,000,000
	TAPOVAN VISHNUGAD	500,000,000
<b>Total Allocated Amount</b>		<b>1,000,000,000.00</b>

Name of the Company :

NTPC Limited

Form-8

Name of the Power Station :

Bongaigaon Thermal power Station Stage

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000641

T00001

D00002

Unsecured Loan From HDFC Bank Ltd. VI		
Source of Loan :	HDFC Bank Ltd. VI	
Currency :	INR	
Amount of Loan :	15,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of drawl	11.10.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	11.10.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.09.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	550,000,000
	TAPOVAN VISHNUGARH	100,000,000
	BONGAIGAON	100,000,000
	SOLAPUR	140,000,000
	LARA-I	330,000,000
	GADARWARA	680,000,000
	NORTH KARANPURA	420,000,000
	DARLIPALLI	340,000,000
	TANDA II	310,000,000
	RAMMAM	30,000,000
	KHARGONE	480,000,000
	TELANGANA	420,000,000
	AURAIYA R&M	500,000,000
	NCTPP R&M	100,000,000
	KAWAS R&M	150,000,000
	GANDHAR R&M	350,000,000
	<b>Total Allocated Amount</b>	<b>5,000,000,000</b>

NTPC LIMITED  
Bongalgaon TPS (3x250 MW)

Particulars	1	2	3	4	5	6	7	8	9	10	11
Source of Loan	5.625% Fixed Rate Notes due 2021*	4.75% Fixed Rate Notes due 2022**	Mizuho II A**	Mizuho II B**	4.375% Fixed Rate Notes due 2024**	4.25% Fixed Rate Notes due 2026**	2.75% Fixed Rate Notes due 2028**	7.25% Masala Bonds due 2022**	JPY Equ 350 Million A**	JPY Equ 350 Million B**	4.50 Fixed Rate Notes due 2028**
Drawal	USD	USD	USD	USD	USD	USD	EURO	INR	JPY	JPY	USD
Amount of loan sanctioned	500,000,000	500,000,000	50,000,000	200,000,000	500,000,000	500,000,000	500,000,000	20,000,000,000	2,252,505,9128	1,688,998,9866	400,000,000
Amount of Gross Loan drawn upto 25.03.2019 / COD	500,000,000	500,000,000	50,000,000	200,000,000	500,000,000	500,000,000	500,000,000	20,000,000,000	2,252,505,9128	1,688,998,9866	400,000,000
Interest Type	Fixed	Fixed	Floating	Floating	Fixed	Fixed	Fixed	Fixed	Floating	Floating	Fixed
Fixed Interest Rate, if applicable	5.625%	4.750%			4.375%	4.250%	2.750%	7.250%			4.500%
Base Rate, if floating interest			6 Month USD Libor	6 Month USD Libor					6 Month JPY Libor	6 Month JPY Libor	
Margin, if floating interest rate			1.25%	1.25%					0.95%	0.95%	
Are there any Caps / Floor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
If above is Yes, specify Caps / Floor											
Moratorium Period	10 Years	10 Years	5yrs 6 mths	5yrs 6 mths	10 Years	10 Years	10 Years	5 Years	9 Year	9 Year	10 Year
Moratorium effective from	14-Jul-2011	03-Oct-2012	24-Oct-2014	16-Mar-2015	26-Nov-2014	26-Feb-2016	01-Feb-2017	03-May-2017	27-Sep-2017	27-Sep-2017	19-Mar-2018
Repayment period	Bullet payment	Bullet payment	1 year 6 mths	1 year 6 mths	Bullet payment	Bullet payment	Bullet payment	Bullet payment	3 Years	3 Years	Bullet payment
Repayment effective from	14-Jul-2021	03-Oct-2022	26-Mar-2020	26-Mar-2020	26-Nov-2024	26-Feb-2026	01-Feb-2027	03-May-2022	12-Nov-2026	12-Nov-2026	19-Mar-2028
Repayment frequency	One time	One time	Four time	Four time	One time	One time	One time	One time	Three time	Three time	One time
Repayment instalment	500,000,000	500,000,000	12,500,000	50,000,000	500,000,000	500,000,000	500,000,000	20,000,000,000	750,835,3043	56,299,96622	400,000,000
Base Exchange Rate (25.03.2019)	69.67	69.67	69.67	69.67	69.67	69.67	79.26	1.00	0.6389	0.6389	69.67
Are foreign currency loan hedged	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
If above is Yes, specify details											

Names of the Projects	%	%	%	%	%	%	%	%	%	%	%
Taicher-II											
Ramagundam-III											
Rihand-II											
Korba											
Kayamkulam											
VSTPP											
Kahalgaoon-II											
Koldam	2.057000%	6.427300%			3.461000%						
Sipat-I	1.006000%	1.090000%									
Sipat-II											
VSTPP-III											
FGUTPP III											
Korba III							4.58621%	3.57069%			
Bongalgaon	15.57000%	4.85260%	0.05980%	0.68459%	1.93500%	1.56264%	1.71056%	2.41638%	1.63718%	2.34143%	2.7624%
Tapovan Vishnugad	1.69400%	3.16550%	0.01536%	0.17536%	1.09500%	1.06813%					
Rihand-III	17.56900%	9.95290%									
Barr-I	19.36700%	2.78170%			1.45700%						
Vindhvachal-IV	18.74000%	10.63010%									
Sirmahd-II	2.33700%	3.99480%									
Mouda-I	20.66000%	8.48480%									
Barr-I		11.26650%									
Kudgi-I		5.04200%	6.96891%	6.23300%	18.66800%	8.17321%	11.09451%	11.46579%	14.32879%	8.60814%	4.5324%
Lara-I		15.28660%	37.25015%	20.14183%	24.65400%	11.09185%	7.52992%	9.32722%	8.38329%	5.36965%	9.9104%
Mouda-II		3.60330%	0.70023%	7.99244%	9.69200%	8.24132%	4.30904%	0.81770%	1.72495%	1.03288%	
Solapur		5.49940%	21.63045%	6.38098%	13.49500%	6.81969%	4.38528%	5.07281%	1.25513%	5.65901%	
Vindhvachal-V		0.07626%	0.87040%	0.87040%	5.35100%						
Gadawara		1.20463%	13.74963%		7.79300%	15.15780%	10.40794%	11.17203%	8.15384%	5.11704%	9.2424%
FGUTPP IV						5.29518%			1.00835%	1.27520%	
North Karanpura					0.76900%	8.43463%	18.94333%	9.62663%	15.11195%	6.67306%	13.6075%
Daripalli			0.26659%	3.06568%	2.43300%	18.81997%	12.49117%	13.97452%	17.77245%	8.10898%	9.5745%
Tanda-II			26.25910%		5.13700%	6.96985%	9.72062%	11.30523%	13.38802%	22.21006%	14.1663%

*Signature*

*Signature*

Name of the Company  
 Name of the Power Station

NTPC LIMITED

Bongalgaon TPS (3x250 MW)

Particulars	1	2	3	4	5	6	7	8	9	10	11
	5.825% Fixed Rate Notes due 2021*	4.75% Fixed Rate Notes due 2022**	Mizuho II A**	Mizuho II B**	4.375% Fixed Rate Notes due 2024**	4.25% Fixed Rate Notes due 2026**	2.75% Fixed Rate Notes due 2028**	7.25% Masala Bonds due 2022**	JPY Equ 350 Million A **	JPY Equ 350 Million B **	4.50 Fixed Rate Notes due 2028 ***
Source of Loan											
Kawas R&M		4.45800%									
Gandhar R&M		0.24950%									
Auraya R&M		2.43610%									
Korba R&M		1.13750%									
Urcharhar-IV											
Kharigone			0.314420%	3.588800%	4.070000%	0.94028%	10.47844%	13.44610%	12.99857%	22.75813%	18.2739%
Banman Hydro			3.251920%	37.117290%		0.62453%					
TeLANGANA											
Anantpur Solar							4.34898%		4.23747%	10.84641%	13.6824%
Mandsaur											
Badia Solar											
Rajmal Wind											
Unallocated											

Notes:-

\* The Interest rate is exclusive of withholding tax currently @ 21.84% ( inclusive of surcharge & education cess)

\*\* The Interest rate is exclusive of withholding tax currently @ 5.46% ( inclusive of surcharge & education cess)

*Handwritten signature*

**FORM-8** Details of Allocation of Corporate Bonds to various projects

Name of the Company  
**NTPC LIMITED**  
 Name of the Power Station  
**BONGAINGAON**

Particulars	28	30	42	47	48	49	50-1A	50-2A	50-3A	50-1B	50-2B
Source of Loan - Bonds Series	28	30	42	47	48	49	50-1A	50-2A	50-3A	50-1B	50-2B
Currency	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR
Amount of Loan sanctioned (In Lakh)	100,000.00	70,000.00	50,000.00	39,000.00	30,000.00	20,000.00	48,802.65	24,994.59	31,202.76	20,863.91	9,139.28
Amount of Gross Loan drawn upto COD (In Lakh)	100,000.00	70,000.00	50,000.00	39,000.00	30,000.00	20,000.00	48,802.65	24,994.59	31,202.76	20,863.91	9,139.28
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	11.00%	7.89%	9%	8.84%	8.73%	8.80%	8.41%	8.48%	8.66%	8.66%	8.73%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor if above is yes, specify caps/floor	No	No	No	No	No	No	No	No	No	No	No
Moratorium Period (In Years)	10	10	11	10	10	10	10	15	20	10	15
Moratorium effective from*	11/21/2008	5/5/2009	1/25/2012	10/4/2012	3/7/2013	4/4/2013	12/16/2013	12/16/2013	12/16/2013	12/16/2013	12/16/2013
Repayment Period	Bullet Repayment	Bullet Repayment	5 Equal Annual Installments commencing from 25/01/2023	Bullet Repayment							
Repayment effective from	11/21/2018	5/5/2019	1/25/2023	10/4/2022	3/7/2023	4/4/2023	12/16/2023	12/16/2028	12/16/2033	12/16/2023	12/16/2028
Repayment Frequency	Bullet Repayment	Bullet Repayment	Yearly	Bullet Repayment							
Repayment Installment (In Lakh)	100,000.00	70,000.00	10,000.00	39,000.00	30,000.00	20,000.00	48,802.65	24,994.59	31,202.76	20,863.91	9,139.28
Base Exchange Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Door to Door Maturity (In Years)	10	10	15	10	10	10	10	15	20	10	15

**FORM-8** Details of Allocation of Corporate Bonds to various projects

Name of the Company  
**NTPC LIMITED**  
 Name of the Power Station  
**BONGAINGAON**

Particulars	28	30	42	47	48	49	50- 1A	50- 2A	50- 3A	50- 1B	50- 2B
Source of Loan - Bonds Series	28	30	42	47	48	49	50- 1A	50- 2A	50- 3A	50- 1B	50- 2B
Name of the Projects	28	30	42	47	48	49	50- 1A	50- 2A	50- 3A	50- 1B	50- 2B
Anantpur Solar											
Auraha R & M											
Badarpur R&M											
Barh I	7,500.00		8,400.00	11,500.00	16,500.00	3,000.00	9,119.12	4,670.42	5,930.46	3,898.57	1,707.74
Barh II	20,000.00	12,500.00	2,000.00	2,500.00	2,500.00		1,729.01	885.52	1,105.47	739.18	323.79
Bhadra Solar											
Bongaigaon	2,500.00	6,000.00	1,700.00	3,500.00	2,000.00	2,500.00	1,812.67	928.37	1,158.96	774.95	339.46
Chhatti Bariatu											
CMB											
Corporate Centre											
Dadri Gas R & M											
Daripalli											
Durlanga CMB											
Farakka III											
Farakka R & M			7,000.00								
Gadawara											
Gandhar R & M											
Kahaigaon II											
Phase I											
Kahaigaon II											
Phase II											
Kawas R & M	3,000.00										
Kharagone											
Khattpur R & M											
Koldam	12,500.00	3,000.00	7,500.00	8,500.00	5,500.00	3,200.00	6,023.64	3,085.05	3,851.31	2,575.20	1,128.05
Korba III	12,500.00	5,000.00									
Korba R & M											
Kudgi											
Lara I											
Lata Tapovan											
Lohari Nagpala											
Mauda	7,500.00	3,500.00	2,400.00	2,000.00	1,800.00	2,000.00	2,844.50	1,456.83	1,818.68	1,216.07	532.69
Mauda II							3,904.21	1,999.57	2,496.22	1,669.11	731.14
Mandsaur Solar							2,788.72	1,428.26	1,783.01	1,192.22	522.24
NCTPP II											
NCTPP R & M		20,000.00									
North Karanpura											
Pakri Barwadih											
CMB											
Ramagundam I & II R & M											
Ramagundam III											
Rammam											
Rihand II											

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**FORM-8** Details of Allocation of Corporate Bonds to various projects

Name of the Company  
**NTPC LIMITED**  
 Name of the Power Station  
**BONGAINGAON**

Particulars	28	30	42	47	48	49	50-1A	50-2A	50-3A	50-1B	50-2B
Source of Loan - Bonds Series											
Rihand III			800.00	3,500.00		5,000.00	1,645.35	842.67	1,051.98	703.41	308.12
Rihand R & M											
Simhadari II	17,500.00	15,000.00	3,800.00	2,500.00							
Simhadari R & M											
Vidhyachal Hydro											
Singrauli R & M											
Singrauli Solar											
Sipat I			14,600.00								
Sipat II											
Solapur											
Talaitpati Coal							2,230.98	1,142.61	1,426.41	953.78	417.80
Mine											
Talcher II											
Tanda II											
Tanda R & M											
Tapovan											
Vishnugad	7,500.00		1,500.00	2,500.00	1,700.00		1,924.22	985.50	1,230.28	822.63	360.35
Telangana											
TSTPP R & M											
TTPS R & M											
Unchahar III											
Unchahar IV											
Unchahar R & M											
Vidhyachal III	2,000.00						4,183.08	2,142.39	2,674.52	1,788.34	783.37
Vidhyachal IV			400.00	2,500.00			1,673.23	856.96	1,069.81	715.33	313.35
Vidhyachal R & M											
Vidhyachal V											
Total	100,000.00	70,000.00	50,000.00	39,000.00	30,000.00	20,000.00	48,802.65	24,994.59	31,202.76	20,863.91	966.15
											9,139.28

\*Moratorium period has been taken as the period from Deemed Date of Allotment till the date of first Redemption.

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details are to be submitted as on 31.03.2004 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original interest type means whether the interest is fixed or floating.
- If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the Form.
- Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from margin means the points over and above the floating rate.
- At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual.
- Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment and its allocation may be given.
- In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.
- Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for the remaining assets.

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FORM-8	FORM-8	Details of Allocation of Corporate Bonds to various projects	
Name of the Company	Name of the Company	NTPC LIMITED	
Name of the Power Station	Name of the Power Station	BONGAINGAON	

Particulars	50-3B	51-B	52	53	54	57	58	59	60	61
Source of Loan - Bonds Series	50-3B	51-B	52	53	54	57	58	59	60	61
Currency	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR
Amount of Loan sanctioned (in Lakh)	39,996.81	10,500.00	75,000.00	100,000.00	1,030,883.05	50,000.00	30,000.00	65,500.00		107,250.00
Amount of Gross Loan drawn upto COD (in Lakh)	39,996.81	10,500.00	75,000.00	100,000.00	1,030,883.05	50,000.00	30,000.00	65,500.00	100,000.00 100,000.00	107,250.00
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	8.91%	8.63%	9.34%	9.17%	8.49%	8.19%	8.18%	8.33%	8.05%	8.10%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor	No	No	No	No	No	No	No	No	No	No
If above is yes, specify caps/floor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moratorium Period (in Years)	20	15	10	10	8	10	5	5	10	5
Moratorium effective from*	12/16/2013	3/4/2014	3/24/2014	9/22/2014	3/25/2015	12/15/2015	12/31/2015	2/24/2016	5/5/2016	5/27/2016
Repayment Period	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Installments Due on 27/05/2021, 27/05/2026 & 27/05/2031
Repayment effective from	12/16/2033	3/4/2029	3/24/2024	9/22/2024	3/25/2023	12/15/2025	12/31/2020	2/24/2021	5/5/2026	27/05/2021, 27/05/2026 & 27/05/2031
Repayment Frequency	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Installments Due on 27/05/2021, 27/05/2026 & 27/05/2031
Repayment Instalment (in Lakh)	39,996.81	10,500.00	75,000.00	100,000.00	1st - 206,136.61 2nd - 412,273.22 3rd - 412,273.22	50,000.00	30,000.00	65,500.00	100,000.00	35,750.00 1st - 35,750.00 2nd - 35,750.00 3rd - 35,750.00
Base Exchange Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Door to Door Maturity (in Years)	20	15	10	10	10	10	5	5	10	15

*Signature*

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**FORM-3** Details of Allocation of Corporate Bonds to various projects

| FORM-3<br>Name of the Company<br>Power Station |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Name of the Company<br>Power Station           |
Source of Loan - Bonds Series	50-3B	51-B	52	53	54	57	58	59	60	61					
Name of the Projects	50-3B	51-B	52	53	54	57	58	59	60	61					
Anantpur Solar					5,600.00	1,400.00			15,100.00	4,600.00					
Auraiya R & M					2,300.00										
Badarpur R&M					74,883.05	8,900.00	4,000.00	2,400.00	14,800.00	8,850.00					
Barh I	7,473.69	4,700.00	4,200.00	19,000.00	63,500.00	8,900.00	2,400.00	2,700.00	1,700.00	5,000.00					
Barh II	1,417.03	400.00	400.00	3,500.00											
Bhadra Solar															
Bongalgaon	1,485.60	1,600.00	3,400.00	11,000.00	54,000.00	500.00	600.00	3,900.00	11,200.00	5,000.00					
Chhatti Barriatu									5,200.00	3,000.00					
CMB															
Corporate Centre					8,100.00				1,500.00						
Dadr Gas R & M															
Derlipalli					600.00										
Dulanga CMB			36,800.00		49,200.00		13,500.00								5,000.00
Farakka III															
Farakka R & M					10,900.00										
Gadarwara					2,000.00										
Gandhar R & M					81,000.00	2,000.00		6,300.00	6,500.00	7,500.00					
Kahaigaon II					4,300.00	800.00	2,000.00								
Phase I															
Kahaigaon II															
Phase II															
Kawas R & M					1,800.00										
Khargone					1,400.00										
Khstpp R & M					45,000.00			2,700.00	500.00						2,000.00
Koldam					2,000.00										
Korba III	4,936.75	4,200.00	4,100.00	6,500.00	25,100.00	3,700.00									
Korba R & M					9,200.00	500.00									
Kudgi	3,199.74		20,000.00	16,500.00	4,400.00										
Lara I	2,285.53			12,500.00	123,300.00										
Lata Tapovan					53,300.00	13,700.00		7,000.00	3,800.00	10,000.00					
Lohari Nagpala					1,600.00			8,900.00	3,100.00	11,000.00					
Mauda	2,331.24														
Mauda II	3,085.47				21,900.00		2,700.00	1,000.00							
Mandsaur Solar					45,800.00			3,500.00	3,400.00	4,000.00					
NCTPP II															
NCTPP R & M					11,000.00	500.00									
North Karanpura					3,700.00										
Pakri Barwadih			3,800.00	8,000.00	12,400.00		1,000.00	3,000.00	7,500.00	5,000.00					
CMB															
Ramagundam I & II R & M					26,600.00	800.00	1,000.00	1,000.00	3,300.00	2,000.00					
Ramagundam III					2,400.00										
Ramman															
Rihand II					3,100.00			900.00		500.00					

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**FORM-3** Name of the Company: **NTPC LIMITED**  
**FORM-3** Name of the Power Station: **BONGAINGAON**  
**FORM-3** Details of Allocation of Corporate Bonds to various projects

Particulars	50-3B	51-B	52	53	54	57	58	59	60	61
<b>Sources of Loan -</b>										
Bonds Series										
Rihand III	1,348.46				28,300.00	800.00		1,700.00		
Rihand R & M					2,500.00					
Simhadari II					26,800.00	1,000.00			2,000.00	
Simhadari R & M					900.00					
Vidhyachal Hydro										
Singrauli R & M					1,900.00					
Singrauli Solar					1,600.00					
Sijpat I					4,800.00					
Sijpat II					20,500.00	1,400.00				
Solapur	1,828.43		21,000.00		70,300.00		1,000.00	5,500.00	2,400.00	7,000.00
Talaipali Coal										
Mine										
Talcher II					12,000.00	700.00				1,200.00
Tanda II					9,000.00	400.00			8,000.00	4,500.00
Tanda R & M										400.00
Tapovan			2,300.00							2,800.00
Vishnugad	1,577.02			2,000.00	26,400.00		800.00	800.00	4,600.00	
Telangana										11,700.00
TSTPP R & M					1,600.00	1,000.00				
TTPS R & M					1,000.00					
Unchahar III										
Unchahar IV	3,428.30				17,400.00	4,800.00			1,800.00	5,000.00
Unchahar R & M					3,400.00					
Vidhyachal III										
Vidhyachal IV	1,371.32				17,200.00	500.00				
Vidhyachal R & M								900.00		
Vidhyachal V	4,228.23				1,200.00	900.00			1,000.00	
<b>Total</b>	<b>39,956.81</b>	<b>10,500.00</b>	<b>75,000.00</b>	<b>100,000.00</b>	<b>1,050,683.05</b>	<b>50,000.00</b>	<b>30,000.00</b>	<b>9,500.00</b>	<b>2,600.00</b>	<b>800.00</b>
								<b>65,500.00</b>	<b>100,000.00</b>	<b>107,250.00</b>

\*Moratorium period\* Moratorium period has been taken as the period from Deemed Date of Allotment till the date of first Redemption.

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details are to be submitted as on 31.03.2004 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given in the Form.
- If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same interest type.
- Interest type means whether the interest is fixed or floating.
- Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the Margin means the points over and above the floating rate.
- At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Moratorium period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment and its allocation may also be given.
- If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule in case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.
- Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for the remaining assets.

*Signature*

FORM-3	FORM-8	Details of Allocation of Corporate Bonds to various projects			
Name of the Company	Name of the Company	NTPC LIMITED			
Name of the Power Station	Name of the Power Station	BONGAINGAON			

Particulars	(Amount in Rs. Lakhs)				
	62	64	65	66	67
Source of Loan - Bonds Series	62	64	65	66	67
Currency	INR	INR	INR	INR	INR
Amount of Loan sanctioned (in Lakh)	80,000.00	70,000.00	70,000.00	392,500.00	400,000.00
Amount of Gross Loan drawn upto COD (in Lakh)	80,000.00	70,000.00	70,000.00	392,500.00	400,000.00
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	7.58%	7.49%	6.72%	7.37%	8.30%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor if above is yes, specify caps/floor	No	No	No	No	No
Moratorium Period (in Years)	10	15	5	15	10
Moratorium effective from*	8/23/2016	11/7/2016	11/24/2016	12/14/2016	1/15/2019
Repayment Period	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment effective from	8/23/2026	11/7/2031	11/24/2021	12/14/2031	1/15/2029
Repayment Frequency	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment Instalment (in Lakh)	80,000.00	70,000.00	70,000.00	392,500.00	400,000.00
Base Exchange Rate	N/A	N/A	N/A	N/A	N/A
Door to Door Maturity (in Years)	10	15	5	15	10

*Exhibit*

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**FORM-8** Name of the Company: **NTPC LIMITED**  
**FORM-8** Name of the Power Station: **BONGAINGAON**  
**FORM-8** Details of Allocation of Corporate Bonds to various projects

Particulars	62	64	65	66	67
Source of Loan - Bonds Series	62	64	65	66	67
Name of the Projects	62	64	65	66	67
Anantpur Solar					
Auraiya R & M					
Badarpur R&M	6,400.00	9,300.00	18,800.00	46,300.00	45,957.14
Barh I				2,000.00	1,000.00
Barh II					
Bhadra Solar	6,100.00	6,800.00	1,100.00	12,700.00	38,819.65
Bongaigaon					
Chhatti Bariatu				300.00	
CMB					
Corporate Centre					122,500.00
Dadri Gas R & M					
Daripalli	5,400.00	7,500.00	10,000.00	36,400.00	
Durlanga CMB				25,400.00	
Farakka III					
Farakka R & M					
Gadarwara	3,200.00	2,500.00	5,300.00	28,100.00	25,900.00
Gandhar R & M					
Kahaigaon II				600.00	
Phase I					
Kahaigaon II					
Phase II					
Kawas R & M					
Khargone	3,000.00	3,200.00	4,200.00	24,700.00	
Khisipri R & M					
Koldam				900.00	8,598.21
Korba III				900.00	2,195.00
Korba R & M					
Kudgi	13,500.00	5,000.00	8,700.00	30,300.00	10,000.00
Lara I	5,300.00	8,600.00	5,100.00	39,500.00	22,812.50
Lata Tapovan					
Lohari Nagpala					
Maulda	4,500.00	3,300.00	1,400.00	3,200.00	715.00
Maulda II				11,000.00	
Mandsaur Solar					1,000.00
NCTPP II					1,601.00
NCTPP R & M					
North Karapura	5,700.00	1,800.00	6,000.00	32,300.00	14,900.00
Paikri Barwadih		4,300.00		6,000.00	21,521.00
CMB					
Ramegundam I & II R & M					
Ramegundam III					
Rammam	900.00			2,000.00	2,500.00
Rihand II					

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FORM-8		FORM-8				Details of Allocation of Corporate Bonds to various projects	
Name of the Company	Name of the Power Station	Name of the Company	Name of the Power Station	NTPC LIMITED BONGAINGAON			

(Amount in Rs. Lakhs)							
Particulars	62	64	65	66	67		
Source of Loan - Bonds Series							
Rihand III				3,200.00			4,270.00
Rihand R & M				2,000.00			4,804.00
Simhadari II							
Simhadari R & M							
Vidhyachal Hydro							500.00
Singrauli R & M							
Singrauli Solar							
Sipat I				1,700.00			
Sipat II							
Solapur	9,000.00	5,100.00	4,000.00	25,300.00			25,200.00
Talajpali Coal Mine							4,900.00
Talcher II				500.00			
Tanda II	4,400.00	2,900.00	3,400.00	21,600.00			12,500.00
Tanda R & M							
Tapovan							
Vishnugad	2,300.00	5,500.00		8,400.00			15,062.50
Telangana				5,800.00			
TSTPP R & M							
TTPS R & M							
Unchahar III							
Unchahar IV	2,800.00	3,500.00	2,000.00	14,700.00			2,500.00
Unchahar R & M							
Vindhyachal III							
Vindhyachal IV							
Vindhyachal R & M				3,100.00			4,804.00
Vindhyachal V	7,500.00	700.00					5,500.00
<b>Total</b>	<b>80,000.00</b>	<b>70,000.00</b>	<b>70,000.00</b>	<b>392,500.00</b>			<b>400,000.00</b>

\*Moratorium period\*Moratorium period has been taken as the period from Deemed Date of Allotment till the date of first Redemption.

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WIMB, PNB, SBI, ICICI,
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2004 for existing assets and as on COD for the remaining assets.
4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the Tariff in the Form is to be given separately for various units, details in the Form is to be given separately for all
5. Interest type means whether the interest is fixed or floating.
6. Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on
7. Margin means the points over and above the floating rate.
8. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
9. Moratorium period refers to the period during which loan servicing liability is not required.
10. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half
11. Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment and its
12. If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the
13. In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.
14. Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for
15. Base exchange rate

*Signature*

*Signature*

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Bongaiaon Thermal power Station(3x250 MW)			
COD	3/26/2019			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Justification	Admitted Cost by the Commission, if any	
		2019-20	2020-21	2021-22	2022-23			
1	2	3	4	5	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
1	Completion of DM plant	98.00						
2	PT Plant-	79.00						
3	AHP	278.00						
4	LT Switchgear, HT Switchgear, Gen B	5.00						
5	Township related works	3,000.00	3,000.00					
6	Main Plant Civil works	2,200.00	2,000.00	2,000.00				
7	Balance work of TG		71.00					
8	Air Conditioning Works		520.00					
9	Power Transformer pkg		2,400.00					
10	Lighting package		144.00					
11	C&I Works		175.00					
12	MGR works		250.00					
13	FDPS		100.00	120.00				
14	Completion of LHP/GHP			24,100.00				
15	Ventilation package			400.00				

24(1)(b)

*Signature*

*Mr*

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner		NTPC Limited							Amount in Rs Lakh	
Name of the Generating Station		Bongaigon Thermal power Station(3x250 MW)								
COD		3/26/2019								
For Financial Year		2019-24 (Summary)								
Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)							Justification	Admitted Cost by the Commission, if any
		2019-20	2020-21	2021-22	2022-23	2023-24	2023-24	2023-24		
1	2	3	4	5	6	7	8	9		
16	FGD- Unit#1 & common facilities	-	-	16,900.00	-	-	-	-	8640	
17	FGD-Unit#2 &3				40,110.00				24(1)(b)	
18	Roof for Coal pile and storing of Biomass pellets in Coal Stock				2,500.00				24(1)(e) & 25(1)(b)	
19	Ash Handling System							2,500.00	26(1) (b )	
	<b>Total (A)</b>	<b>5,660.00</b>	<b>8,660.00</b>	<b>43,520.00</b>	<b>42,610.00</b>	<b>2,500.00</b>	<b>2,500.00</b>			
<b>B.</b>	<b>Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>									
1										
	<b>Total (B)</b>									
	<b>Total Add. Cap. Claimed (A+B)</b>	<b>5,660.00</b>	<b>8,660.00</b>	<b>43,520.00</b>	<b>42,610.00</b>	<b>2,500.00</b>	<b>2,500.00</b>			

(Petitioner)

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Bongaiagon Thermal power Station(3x250 MW)	
COD	3/26/2019	
For Financial Year	2019-20	

Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Projected)	Regulations under which claimed	Justification	Amount in Rs Lakh
1	2	3	4	5= (3-4)	6	7
1	2	3	4	5= (3-4)	6	7
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>						
1	Completion of DM plant	98.00		98.00		
2	PT Plant	79.00		79.00		
3	AHP	278.00		278.00		
4	LT Switchgear, HT Switchgear, Gen Busduct works-	5.00		5.00		
5	Township related works	3,000.00		3,000.00		
6	Main Plant Civil works	2,200.00		2,200.00		
	<b>Total (A)</b>	<b>5,660.00</b>	<b>-</b>	<b>5,660.00</b>		
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>						
1						
	<b>Total (B)</b>	<b>-</b>	<b>-</b>	<b>-</b>		
	<b>Total Add. Cap. Claimed (A+B)</b>	<b>5,660.00</b>	<b>-</b>	<b>5,660.00</b>		

  
 (Petitioner)

PART-I FORM-9									
Year wise Statement of Additional Capitalisation after COD									
Name of the Petitioner		NTPC Limited							
Name of the Generating Station		Bongalagon Thermal power Station(3x250 MW)							
COD		3/26/2019							
For Financial Year		2020-21							
Sl. No.	Head of Work/Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual/Projected) Liabilities included in col. 4	Cash basis 5=(3-4)	IDC included in col. 3	Regulations under which claimed	Justification	Amount in Rs Lakh	
1	2	3	4	5	6	7	8	9	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>									
1	Township related works	3000.00		3000.00					
2	Main Plant Civil works	2000.00		2000.00					
3	Balance work of TG	71.00		71.00					
4	Air Conditioning Works	520.00		520.00					
5	Power Transformer pkg	2400.00		2400.00					
6	Lighting package	144.00		144.00					
7	C&I Works	175.00		175.00					
8	MGR works	250.00		250.00					
9	FDPS	100.00		100.00					
	<b>Total (A)</b>	<b>8,660.00</b>		<b>8,660.00</b>					
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>									
1									
	<b>Total (B)</b>								
	<b>Total Add. Cap. Claimed (A+B)</b>	<b>8,660.00</b>		<b>8,660.00</b>					
									<i>[Signature]</i> (Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Bongaigaon Thermal power Station(3x250 MW)	
COD	3/26/2019	
For Financial Year	2021-22	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any.
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
1	Main Plant Civil works	2000.00		2000.00				
2	FDPs	120.00		120.00				
3	Completion of LHP/GHP	24100.00		24100.00		24(1)(b)	These are the balance work under original scope of work before cut off date. Hon'ble Commission may be pleased to allow the same.	
4	Ventilation package	400.00		400.00				
2	FGD- Unit#1 & common facilities	16900		16900.00		24(1)(b)	FGD for all three units are under original scope of work of Bongaigaon TPS in view of high sulphur content of NECL Coal allocated for Bongaigaon TPS. Accordingly, the petitioner had envisaged the said work to be completed in the year 2017-18 in the tariff petition 45/GT/2016. The Hon'ble Commission has approved the same in tariff order dated 22.5.2017 in petition no 45/GT/2016. The construction of FGD plant is in advance stage, however has not been completed within stipulated time due to various project implementation issues such as project located in Bodoland area of Assam, frequent bands, excessive rainfall, law and order issues etc which were already recognised by Hon'ble Commission in the said order. The work of FGD of Unit#1, along with common facilities, such as reagent preparation and supply system, gypsum dewatering system etc are projected to be completed within the cut off date i.e. in the year 2021-22. Hon'ble Commission may be pleased to allow the same.	8640
<b>Total (A)</b>		43,520.00		43,520.00				
<b>B. Works beyond Original scope extending add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
4								
<b>Total (B)</b>								
<b>Total Add. Cap. Claimed (A+B)</b>		43,520.00		43,520.00				

*[Signature]*  
(Petitioner)

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Bongaigaon Thermal power Station(3x250 MW)
For Financial Year	3/6/2019 2022-23

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis			
1	2	3	4	5-(3-4)	6	7	8
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>							
1	FGD-Unit#2 &3	40110		5-(3-4)	40110	24(1)(e) & 25(1)(b)	FGD for all three units are under original scope of work of Bongaigaon TPS in view of high sulphur content of NECL Coal allocated for Bongaigaon TPS. Accordingly, the petitioner had envisaged the said work to be completed in the year 2017-18 in the tariff petition 45/GT/2016. Accordingly Hon'ble Commission has approved the same in tariff order dated 22.5.2017 in petition no 45/GT/2016. However, Ministry of Environment, Forest and Climate Change, Government of India ("MoEFCC") has notified the Environment (Protection) Amendment Rules, 2015 ("MoEFCC Notification") dated 07.12.2015, which mandates that all thermal power plants installed / to be installed, are required to comply with the revised emission norms as specified in the MOEF Notification. A copy of the notification dated 07.12.2015 is attached as Annexure-A. At the time of investment approval of FGD in 2008, there was no norms limiting SO2. As per the original limit of SO2 level at the FGO O/L is envisaged to be in the range of 270 mg/m3 at design coal. However, as per the new environmental norms, the Bongaigaon TPS has to meet more stringent norms for UH&G as 100 mg/m3. Therefore, in compliance of the said notification, design modification/ upgradation of FGD is required due to change in technical design. Accordingly, present Absorber are to be replaced with new designed Absorber (MHPS DCFS Design) twin tower, RC pump etc to meet the SO2 conditions requirement. In view of the design changes and consequently requiring reengineering, the work of FGD is projected to be completed after cut off date. Hon'ble Commission may be pleased to allow the expenditure after cut off date under Change in Law.
2	Roof for Coal pile and storing of Biomass pellets in Coal Stock Yard	2500			2500	26(1)(b)	BgTPP is located in high rain fall area where average annual rainfall is about 3500 mm of about 06 to 07 months long period. Due to heavy rain fall, Bongaigaon TPS is facing problem of coal wash out, coal sliding etc. Further, the major quantity of coal to be used in future is from NECL which is high GCV and sticky in nature. Due to heavy rain and coal transportation by box rakes of about 700 km (Margaria coal mines near Tinsukia) through heavy rainfall zone, this high GCV coal gets wet and sticky. Moreover, by stacking this sticky coal in open yard, the problem gets aggravated and compacting becomes more difficult. Due to stickiness, site is facing continuous choking problem in different TPs and bunkers. As this plant is a non pit head station, so before rainy season, sufficient buffer stock requires to be maintained in the coal yards but due to heavy rain, coal compaction gets hampered. Moreover, due to open yard, high GCV coal becomes inferior grade. Therefore, BgTPS is under planning to provide shed for coal stockpiles. Further, Ministry of Power, Government of India, vide letter No. 11/86/2017-Th I dated 17th Nov '2017 has issued the "Policy for Biomass Utilization for Power Generation through Co-firing in Pulverized Coal Fired Boilers" wherein it is envisaged that fluidized bed and pulverized coal units shall endeavour to use 5-10% blend of biomass pellets made, primarily of agro residue along with coal. (Attached at Annexure-C) Therefore, in view of the same, Station will use of biomass pellets in future requires storing the pellets, roof shed over stockyard. Keeping in view, the criticalities mentioned above & the requirement of storage of Biomass PELLETS in near future, providing ROOF over one stack yard(Pile) out of 4 Piles is required. Further, this will also enhance the sustainable coal feeding into bunkers even in odd atmospheric conditions prevailed in Bongaigaon. Hon'ble Commission may be pleased to allow the same.
<b>Total (A)</b>		40,110.00			40,110.00		
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>							
<b>Total (B)</b>							
<b>Total Add. Cap. Claimed (A+B)</b>		40,110.00			40,110.00		

*Chakraborty*  
(Petitioner)

*Ch*

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Bongalagon Thermal power Station(3x250 MW)	
COD	3/26/2019	
For Financial Year	2023-24	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis			
		3	4	5- (3-4)	6	7	8
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>							
1	Ash Handling System	2500.00			2500.00	26(1)(b)	For evacuation of fly ash through dry mode, there is one buffer hopper with four transport vessels. All 48 ESP hoppers are evacuated through this single buffer hopper with help of vacuum pump. This system is designed for envisaging 50% dry ash evacuation at the time of start of construction of station. However, as per new MOEF notification dated 25.01.2016(Attached at Annexure-D), thermal power plants are required to use 100% dry ash utilization. However, in present system, evacuation of dry ash for 100% ash utilisation through earlier buffer hopper system cannot be evacuated. Further, with earlier buffer hopper, procedural optimisation of dry ash system is very difficult and system becomes unreliable. In case of breakdown in dry mode, evacuation can not be done. In view of the above, for 100% dry ash utilization additional buffer hopper and two vacuum pumps to be required for each unit. Separate transport line along with TAC and Silo venting system are also required for ash conveying. Hon'ble Commission may be pleased to allow the expenditure on the same. Hon'ble Commission may be pleased to allow the same.
<b>Total (A)</b>		<b>2,500.00</b>			<b>2,500.00</b>		
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>							
<b>Total (B)</b>							
<b>Total Add. Cap. Claimed (A+B)</b>		<b>2,500.00</b>			<b>2,500.00</b>		

*Gupta*  
(Petitioner)

Name of the Petitioner **NTPC Limited**  
 Name of the Generating Station **Bongaigon Thermal power Station(3x250 MW)**  
 Date of Commercial Operation **3/26/2019**

Financial Year (Starting from COD)1	Actual						Amount in Rs Lakh Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24	
1		3	4	5	6	7	8	9	10	11	

Amount capitalised in Work/ Equipment

Financing Details	
Loan-1	
Loan-2	
Loan-3 and so on	
Total Loan2	
Equity	
Internal Resources	
Others (Pl. specify)	
Total	

Add cap is proposed to be finance in Debt:Equity ratio of 70:30

*[Signature]*

(Petitioner)

*[Signature]*

Name of the Company : NTPC Ltd

Name of the Power Station : Bongaigaon Thermal Power Project(3x250 MW)

Rs Lakhs

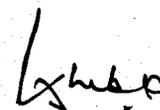
Sl. no.	Name of the Assets <sup>1</sup>	Actual Gross Block as on 01.04.2019	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount on Gross Block as on 01.04.2019
1	2	3	4	5
1	Land - Free Hold	132.41	0.00%	-
2	Site Clearance & Levelling	397.58	3.34%	13.28
3	Steam Generator	243,627.09	5.28%	12,863.51
4	Turbine Generator& Auxiliaries.	152,611.42	5.28%	8,057.88
5	CW System-Equipments	1,769.57	5.28%	93.43
6	DM Plant	3,673.52	5.28%	193.96
7	Water Pre-Treatment Plant (Clarification Plant)	7,275.55	5.28%	384.15
8	Ash Handling-Turnkey (Incl. AWRS)	14,364.31	5.28%	758.44
9	Coal Handling - Turnkey	37,248.80	5.28%	1,966.74
10	Locomotives	3,263.58	5.28%	172.32
11	Air Conditioning and Ventilation	1,730.71	5.28%	91.38
12	Fire Detection & Protection System	2,955.32	5.28%	156.04
13	Station Piping	4,086.02	5.28%	215.74
14	Workshop & lab building	-	3.34%	-
15	400 KV Switch yard Package	9,285.64	5.28%	490.28
16	LT Outdoor Transformers	2,614.83	5.28%	138.06
17	Generator Bus Dust	1,484.13	5.28%	78.36
18	Power Transformer	14,795.30	5.28%	781.19
19	11 KV & 3.3 KV Switchgear	2,870.37	5.28%	151.56
20	LT Switchgear & LT Busduct	3,706.75	5.28%	195.72
21	Power Cables-HT	807.68	5.28%	42.65
22	Power Cables-LT	1,262.50	5.28%	66.66
23	Control Cable	329.94	5.28%	17.42
24	Electrical Eqpt Supply & Erection (Lighting)	7,579.10	5.28%	400.18
25	Control & Instrumentation	7,221.55	5.28%	381.30
26	Main Plant Buildings	71,568.70	3.34%	2,390.39
27	CW Civil Work	2,246.34	5.28%	118.61
28	Cooling Tower	13,200.73	5.28%	697.00
29	RLY SIDING WORKS-RITES	25,916.34	5.28%	1,368.38
30	Ash Dyke - Statar	12,985.30	5.28%	685.62
31	Township Buildings (Quarters and Others)	16,357.23	3.34%	546.33
32	Petrol Pump	44.90	3.34%	1.50
33	Store	536.64	3.34%	17.92
34	SWGR & SUBSTN BUILDING - CIVIL WORKS	62.35	3.34%	2.08
35	Boundary Wall	811.21	3.34%	27.09
36	Drains	2,015.81	3.34%	67.33
37	Roads	983.19	3.34%	32.84
38	Bridge and Culvert	20.73	3.34%	0.69
39	Other Enabling Works	851.55	3.34%	28.44
40	Chimney	10,685.90	5.28%	564.22
41	Tools and plants	867.07	5.28%	45.78
42	Other Buildings	13.15	3.34%	0.44
43	Temporary Erection	112.88	100.00%	112.88
44	Water Supply, drainage & Sewerage	22.49	5.28%	1.19
45	Plant and Machinery	756.50	5.28%	39.94
46	Furniture & Fixtures	779.65	6.33%	49.35
47	Other Office Equipments	496.06	6.33%	31.40
48	EDP, WP Mahines & SATCOM Equipments	353.60	15.00%	53.04
49	Vehicles including speedboats	81.94	9.50%	7.78
50	Electrical Installtions	306.37	5.28%	16.18
51	Communication Equipments	74.95	6.33%	4.74
52	Hospital Equipments	114.35	5.28%	6.04
53	Laboratory Equipments	61.75	5.28%	3.26
54	Software	49.29	15.00%	7.39

Name of the Company : NTPC Ltd

Name of the Power Station : Bongaigaon Thermal Power Project(3x250 MW)

.Rs Lakhs

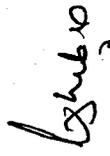
Sl. no.	Name of the Assets <sup>1</sup>	Actual Gross Block as on 01.04.2019	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount on Gross Block as on 01.04.2019
1	2	3	4	5
55	Capital Spares	4,647.27	5.28%	245.38
	<b>Total</b>	692,117.92		34,883.50
<b>Weighted Average Rate of Depreciation</b>			<b>5.0401%</b>	
Petitioner				

## Statement of Depreciation

Name of the Company :		NTPC Limited							
Name of the Power Station :		Bongaigaon Thermal power Station(3x250 MW)							
		(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8		
1	Opening Capital Cost	627289.01	627,299.67	632,959.67	641,619.67	685,139.67	727,749.67		
2	Closing Capital Cost	627299.67	632,959.67	641,619.67	685,139.67	727,749.67	730,249.67		
3	Average Capital Cost	627294.34	630,129.67	637,289.67	663,379.67	706,444.67	728,999.67		
1a	Cost of IT Equipments & Software included in (1) above*		-	-	-	-	-		
2a	Cost of IT Equipments & Software included in (2) above*		-	-	-	-	-		
3a	Average Cost of IT Equipments & Software		-	-	-	-	-		
4	Freehold land	495.00	495.00	495.00	495.00	495.00	495.00		
5	Rate of depreciation	5.0401	5.0401	5.0401	5.0401	5.0401	5.0401		
6	Depreciable value	564,119.41	566,671.20	573,115.20	596,596.20	635,354.70	655,654.20		
7.	Balance useful life at the beginning of the period	24.14	23.14	22.14	21.14	20.14	19.14		
8	Remaining depreciable value	514,868.01	516,900.08	491,584.92	482,945.88	488,269.38	472,963.36		
9	Depreciation (for the period)	519.72	31,759.17	32,120.04	33,435.00	35,605.52	36,742.31		
10	Depreciation (annualised)	31,616.29	31,759.17	32,120.04	33,435.00	35,605.52	36,742.31		
11	Cumulative depreciation at the end of the period		81,530.29	113,650.32	147,085.32	182,690.84	219,433.15		
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	-	-	-	-	-		
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	-	-	-	-	-		
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	-	-	-	-	-		
15	Net Cumulative depreciation at the end of the period after adjustments	49,771.12	81,530.29	113,650.32	147,085.32	182,690.84	219,433.15		

\*Shall be provided at the time of true up


  
(Petitioner)

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>1</b>	<b>Mizuho II A</b>					
	Gross loan - Opening	20.89	20.89	20.89	20.89	20.89
	Cumulative repayments of Loans upto previous period	0.00	5.22	15.67	20.89	20.89
	Net loan - Opening	20.89	15.67	5.22	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	20.89	15.67	5.22	0.00	0.00
	Repayments of Loans during the period	5.22	10.45	5.22	0.00	0.00
	Net loan - Closing	15.67	5.22	0.00	0.00	0.00
	Average Net Loan	18.28	10.45	2.61	0.00	0.00
	Rate of Interest on Loan	4.1146%	4.1146%	4.1146%	4.1146%	4.1146%
	Interest on Loan Annualised	0.75	0.43	0.11	0.00	0.00
<b>2</b>	<b>Mizuho II B</b>					
	Gross loan - Opening	953.91	953.91	953.91	953.91	953.91
	Cumulative repayments of Loans upto previous period	0.00	238.48	715.43	953.91	953.91
	Net loan - Opening	953.91	715.43	238.48	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	953.91	715.43	238.48	0.00	0.00
	Repayments of Loans during the period	238.48	476.95	238.48	0.00	0.00
	Net loan - Closing	715.43	238.48	0.00	0.00	0.00
	Average Net Loan	834.67	476.95	119.24	0.00	0.00
	Rate of Interest on Loan	4.1146%	4.1146%	4.1146%	4.1146%	4.1146%
	Interest on Loan Annualised	34.34	19.62	4.91	0.00	0.00
<b>3</b>	<b>5.625% Fixed Rate Notes due 2021</b>					
	Gross loan - Opening	54238.10	54238.10	54238.10	54238.10	54238.10
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	54238.10	54238.10
	Net loan - Opening	54238.10	54238.10	54238.10	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	54238.10	54238.10	54238.10	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	54238.10	0.00	0.00
	Net loan - Closing	54238.10	54238.10	0.00	0.00	0.00
	Average Net Loan	54238.10	54238.10	27119.05	0.00	0.00
	Rate of Interest on Loan	7.7700%	7.7700%	7.7700%	7.7700%	7.7700%
	Interest on Loan Annualised	4214.30	4214.30	2107.15	0.00	0.00
<b>4</b>	<b>4.75% EURO BONDS 2022</b>					
	Gross loan - Opening	16904.03	16904.03	16904.03	16904.03	16904.03
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	16904.03
	Net loan - Opening	16904.03	16904.03	16904.03	16904.03	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	16904.03	16904.03	16904.03	16904.03	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	16904.03	0.00
	Net loan - Closing	16904.03	16904.03	16904.03	0.00	0.00
	Average Net Loan	16904.03	16904.03	16904.03	8452.02	0.00
	Rate of Interest on Loan	5.0400%	5.0400%	5.0400%	5.0400%	5.0400%
	Interest on Loan Annualised	851.96	851.96	851.96	425.98	0.00

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>5</b>	<b>4.375% EURO BONDS 2024</b>					
	Gross loan - Opening	6740.57	6740.57	6740.57	6740.57	6740.57
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6740.57	6740.57	6740.57	6740.57	6740.57
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6740.57	6740.57	6740.57	6740.57	6740.57
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	6740.57	6740.57	6740.57	6740.57	6740.57
	Average Net Loan	6740.57	6740.57	6740.57	6740.57	6740.57
	Rate of Interest on Loan	4.6400%	4.6400%	4.6400%	4.6400%	4.6400%
	Interest on Loan Annualised	312.76	312.76	312.76	312.76	312.76
<b>6</b>	<b>4.25% Fixed Rate Notes due 2026</b>					
	Gross loan - Opening	5443.46	5443.46	5443.46	5443.46	5443.46
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	5443.46	5443.46	5443.46	5443.46	5443.46
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	5443.46	5443.46	5443.46	5443.46	5443.46
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	5443.46	5443.46	5443.46	5443.46	5443.46
	Average Net Loan	5443.46	5443.46	5443.46	5443.46	5443.46
	Rate of Interest on Loan	4.4930%	4.4930%	4.4930%	4.4930%	4.4930%
	Interest on Loan Annualised	244.57	244.57	244.57	244.57	244.57
<b>7</b>	<b>2.75% Fixed Rate Notes due 2028</b>					
	Gross loan - Opening	6778.09	6778.09	6778.09	6778.09	6778.09
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6778.09	6778.09	6778.09	6778.09	6778.09
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6778.09	6778.09	6778.09	6778.09	6778.09
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	6778.09	6778.09	6778.09	6778.09	6778.09
	Average Net Loan	6778.09	6778.09	6778.09	6778.09	6778.09
	Rate of Interest on Loan	2.9200%	2.9200%	2.9200%	2.9200%	2.9200%
	Interest on Loan Annualised	197.92	197.92	197.92	197.92	197.92
<b>8</b>	<b>7.25% Masala Bonds due 2022</b>					
	Gross loan - Opening	4832.77	4832.77	4832.77	4832.77	4832.77
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	4832.77
	Net loan - Opening	4832.77	4832.77	4832.77	4832.77	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4832.77	4832.77	4832.77	4832.77	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	4832.77	0.00
	Net loan - Closing	4832.77	4832.77	4832.77	0.00	0.00
	Average Net Loan	4832.77	4832.77	4832.77	2416.38	0.00
	Rate of Interest on Loan	7.6645%	7.6645%	7.6645%	7.6645%	7.6645%
	Interest on Loan Annualised	370.41	370.41	370.41	185.20	0.00

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>9</b>	<b>JPY Equ. 350 Million A</b>					
	Gross loan - Opening	2356	2356	2356	2356	2356
	Cumulative repayments of Loans upto previous period	0	0	0	0	0
	Net loan - Opening	2356	2356	2356	2356	2356
	Increase/ Decrease due to FERV	0	0	0	0	0
	Increase/ Decrease due to ACE/Drawl during the period	0	0	0	0	0
	Total	2356	2356	2356	2356	2356
	Repayments of Loans during the period	0	0	0	0	0
	Net loan - Closing	2356	2356	2356	2356	2356
	Average Net Loan	2356	2356	2356	2356	2356
	Rate of Interest on Loan	1.0789%	1.0789%	1.0789%	1.0789%	1.0789%
	Interest on Loan Annualised	25.42	25.42	25.42	25.42	25.42
<b>10</b>	<b>JPY Equ. 350 Million B</b>					
	Gross loan - Opening	2526.64	2526.64	2526.64	2526.64	2526.64
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	2526.64	2526.64	2526.64	2526.64	2526.64
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2526.64	2526.64	2526.64	2526.64	2526.64
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	2526.64	2526.64	2526.64	2526.64	2526.64
	Average Net Loan	2526.64	2526.64	2526.64	2526.64	2526.64
	Rate of Interest on Loan	1.0789%	1.0789%	1.0789%	1.0789%	1.0789%
	Interest on Loan Annualised	27.26	27.26	27.26	27.26	27.26
<b>11</b>	<b>4.50 Fixed Rate Notes due 2028</b>					
	Gross loan - Opening	7698.35	7698.35	7698.35	7698.35	7698.35
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	7698.35	7698.35	7698.35	7698.35	7698.35
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7698.35	7698.35	7698.35	7698.35	7698.35
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	7698.35	7698.35	7698.35	7698.35	7698.35
	Average Net Loan	7698.35	7698.35	7698.35	7698.35	7698.35
	Rate of Interest on Loan	4.7572%	4.7572%	4.7572%	4.7572%	4.7572%
	Interest on Loan Annualised	366.23	366.23	366.23	366.23	366.23
<b>12</b>	<b>Bonds- XXX-repayment on 05.05.2019</b>					
	Gross loan - Opening	6000.00	6000.00	6000.00	6000.00	6000.00
	Cumulative repayments of Loans upto previous period	0.00	6000.00	6000.00	6000.00	6000.00
	Net loan - Opening	6000.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6000.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	6000.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	3000.00	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	7.9200%	7.9200%	7.9200%	7.9200%	7.9200%
	Interest on Loan Annualised	237.60	0.00	0.00	0.00	0.00

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>13</b>	<b>Bonds- XLII-repayment on 25.01.2023</b>					
	Gross loan - Opening	1700.00	1700.00	1700.00	1700.00	1700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	340.00
	Net loan - Opening	1700.00	1700.00	1700.00	1700.00	1360.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1700.00	1700.00	1700.00	1700.00	1360.00
	Repayments of Loans during the period	0.00	0.00	0.00	340.00	340.00
	Net loan - Closing	1700.00	1700.00	1700.00	1360.00	1020.00
	Average Net Loan	1700.00	1700.00	1700.00	1530.00	1190.00
	Rate of Interest on Loan	9.0300%	9.0300%	9.0300%	9.0300%	9.0300%
	Interest on Loan Annualised	153.51	153.51	153.51	138.16	107.46
<b>14</b>	<b>Bonds- XLVII-repayment on 04.10.2022</b>					
	Gross loan - Opening	3500.00	3500.00	3500.00	3500.00	3500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	3500.00
	Net loan - Opening	3500.00	3500.00	3500.00	3500.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3500.00	3500.00	3500.00	3500.00	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	3500.00	0.00
	Net loan - Closing	3500.00	3500.00	3500.00	0.00	0.00
	Average Net Loan	3500.00	3500.00	3500.00	1750.00	0.00
	Rate of Interest on Loan	8.8700%	8.8700%	8.8700%	8.8700%	8.8700%
	Interest on Loan Annualised	310.45	310.45	310.45	155.23	0.00
<b>15</b>	<b>Bonds- XLVIII-repayment on 07.03.2023</b>					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	2000.00
	Net loan - Opening	2000.00	2000.00	2000.00	2000.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	2000.00	2000.00	2000.00	0.00
	Repayments of Loans during the period	0.00	0.00	0.00	2000.00	0.00
	Net loan - Closing	2000.00	2000.00	2000.00	0.00	0.00
	Average Net Loan	2000.00	2000.00	2000.00	1000.00	0.00
	Rate of Interest on Loan	8.7600%	8.7600%	8.7600%	8.7600%	8.7600%
	Interest on Loan Annualised	175.20	175.20	175.20	87.60	0.00
<b>16</b>	<b>Bonds- XLIX-repayment on 04.04.2023</b>					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2500.00	2500.00	2500.00	2500.00	2500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	2500.00
	Net loan - Closing	2500.00	2500.00	2500.00	2500.00	0.00
	Average Net Loan	2500.00	2500.00	2500.00	2500.00	1250.00
	Rate of Interest on Loan	8.8300%	8.8300%	8.8300%	8.8300%	8.8300%
	Interest on Loan Annualised	220.75	220.75	220.75	220.75	110.38

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>17</b>	<b>Bonds- L-1A repayment on 16.12.2023</b>					
	Gross loan - Opening	1812.67	1812.67	1812.67	1812.67	1812.67
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1812.67	1812.67	1812.67	1812.67	1812.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1812.67	1812.67	1812.67	1812.67	1812.67
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	1812.67
	Net loan - Closing	1812.67	1812.67	1812.67	1812.67	0.00
	Average Net Loan	1812.67	1812.67	1812.67	1812.67	906.33
	Rate of Interest on Loan	8.4400%	8.4400%	8.4400%	8.4400%	8.4400%
	Interest on Loan Annualised	152.99	152.99	152.99	152.99	76.49
<b>18</b>	<b>Bonds- L-2A repayment on 16.12.2028</b>					
	Gross loan - Opening	928.37	928.37	928.37	928.37	928.37
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	928.37	928.37	928.37	928.37	928.37
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	928.37	928.37	928.37	928.37	928.37
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	928.37	928.37	928.37	928.37	928.37
	Average Net Loan	928.37	928.37	928.37	928.37	928.37
	Rate of Interest on Loan	8.5100%	8.5100%	8.5100%	8.5100%	8.5100%
	Interest on Loan Annualised	79.00	79.00	79.00	79.00	79.00
<b>19</b>	<b>Bonds- L-3A repayment on 16.12.2033</b>					
	Gross loan - Opening	1158.96	1158.96	1158.96	1158.96	1158.96
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1158.96	1158.96	1158.96	1158.96	1158.96
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1158.96	1158.96	1158.96	1158.96	1158.96
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1158.96	1158.96	1158.96	1158.96	1158.96
	Average Net Loan	1158.96	1158.96	1158.96	1158.96	1158.96
	Rate of Interest on Loan	8.6900%	8.6900%	8.6900%	8.6900%	8.6900%
	Interest on Loan Annualised	100.71	100.71	100.71	100.71	100.71
<b>20</b>	<b>Bonds- L-1B repayment on 16.12.2023</b>					
	Gross loan - Opening	774.95	774.95	774.95	774.95	774.95
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	774.95	774.95	774.95	774.95	774.95
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	774.95	774.95	774.95	774.95	774.95
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	774.95
	Net loan - Closing	774.95	774.95	774.95	774.95	0.00
	Average Net Loan	774.95	774.95	774.95	774.95	387.47
	Rate of Interest on Loan	8.6900%	8.6900%	8.6900%	8.6900%	8.6900%
	Interest on Loan Annualised	67.34	67.34	67.34	67.34	33.67
<b>21</b>	<b>Bonds- L-2B repayment on 16.12.2028</b>					
	Gross loan - Opening	339.46	339.46	339.46	339.46	339.46
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	339.46	339.46	339.46	339.46	339.46
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	339.46	339.46	339.46	339.46	339.46
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	339.46	339.46	339.46	339.46	339.46
	Average Net Loan	339.46	339.46	339.46	339.46	339.46
	Rate of Interest on Loan	8.7600%	8.7600%	8.7600%	8.7600%	8.7600%
	Interest on Loan Annualised	29.74	29.74	29.74	29.74	29.74
<b>22</b>	<b>Bonds- L-3B repayment on 16.12.2033</b>					
	Gross loan - Opening	1485.60	1485.60	1485.60	1485.60	1485.60
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1485.60	1485.60	1485.60	1485.60	1485.60
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1485.60	1485.60	1485.60	1485.60	1485.60
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1485.60	1485.60	1485.60	1485.60	1485.60
	Average Net Loan	1485.60	1485.60	1485.60	1485.60	1485.60
	Rate of Interest on Loan	8.9400%	8.9400%	8.9400%	8.9400%	8.9400%
	Interest on Loan Annualised	132.81	132.81	132.81	132.81	132.81
<b>23</b>	<b>Bonds- LI-B repayment on 04.03.2029</b>					
	Gross loan - Opening	1600.00	1600.00	1600.00	1600.00	1600.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1600.00	1600.00	1600.00	1600.00	1600.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1600.00	1600.00	1600.00	1600.00	1600.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1600.00	1600.00	1600.00	1600.00	1600.00
	Average Net Loan	1600.00	1600.00	1600.00	1600.00	1600.00
	Rate of Interest on Loan	8.6600%	8.6600%	8.6600%	8.6600%	8.6600%
	Interest on Loan Annualised	138.56	138.56	138.56	138.56	138.56
<b>24</b>	<b>Bonds- L-II repayment on 24.03.2024</b>					
	Gross loan - Opening	3400.00	3400.00	3400.00	3400.00	3400.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	3400.00	3400.00	3400.00	3400.00	3400.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3400.00	3400.00	3400.00	3400.00	3400.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	3400.00
	Net loan - Closing	3400.00	3400.00	3400.00	3400.00	0.00
	Average Net Loan	3400.00	3400.00	3400.00	3400.00	1700.00
	Rate of Interest on Loan	9.3700%	9.3700%	9.3700%	9.3700%	9.3700%
	Interest on Loan Annualised	318.58	318.58	318.58	318.58	159.29

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>25</b>	<b>Bonds- L-III repayment on 22.09.2024</b>					
	Gross loan - Opening	11000.00	11000.00	11000.00	11000.00	11000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	11000.00	11000.00	11000.00	11000.00	11000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	11000.00	11000.00	11000.00	11000.00	11000.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	11000.00	11000.00	11000.00	11000.00	11000.00
	Average Net Loan	11000.00	11000.00	11000.00	11000.00	11000.00
	Rate of Interest on Loan	9.2000%	9.2000%	9.2000%	9.2000%	9.2000%
	Interest on Loan Annualised	1012.00	1012.00	1012.00	1012.00	1012.00
<b>26</b>	<b>Bonds- L-IV repayment on 25.03.2023</b>					
	Gross loan - Opening	54000.00	54000.00	54000.00	54000.00	54000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	10800.00
	Net loan - Opening	54000.00	54000.00	54000.00	54000.00	43200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	54000.00	54000.00	54000.00	54000.00	43200.00
	Repayments of Loans during the period	0.00	0.00	0.00	10800.00	21600.00
	Net loan - Closing	54000.00	54000.00	54000.00	43200.00	21600.00
	Average Net Loan	54000.00	54000.00	54000.00	48600.00	32400.00
	Rate of Interest on Loan	8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
	Interest on Loan Annualised	4600.80	4600.80	4600.80	4140.72	2760.48
<b>27</b>	<b>Bonds- L-VII repayment on 15.12.2025</b>					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	500.00	500.00	500.00	500.00	500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	500.00	500.00	500.00	500.00	500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	500.00	500.00	500.00	500.00	500.00
	Average Net Loan	500.00	500.00	500.00	500.00	500.00
	Rate of Interest on Loan	8.2200%	8.2200%	8.2200%	8.2200%	8.2200%
	Interest on Loan Annualised	41.10	41.10	41.10	41.10	41.10
<b>28</b>	<b>Bonds- L-VIII repayment on 31.12.2020</b>					
	Gross loan - Opening	600.00	600.00	600.00	600.00	600.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	600.00	600.00	600.00
	Net loan - Opening	600.00	600.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	600.00	600.00	0.00	0.00	0.00
	Repayments of Loans during the period	0.00	600.00	0.00	0.00	0.00
	Net loan - Closing	600.00	0.00	0.00	0.00	0.00
	Average Net Loan	600.00	300.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2100%	8.2100%	8.2100%	8.2100%	8.2100%
	Interest on Loan Annualised	49.26	24.63	0.00	0.00	0.00

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>29</b>	<b>Bonds- L-IX repayment on 24.02.2021</b>					
	Gross loan - Opening	3900.00	3900.00	3900.00	3900.00	3900.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	3900.00	3900.00	3900.00
	Net loan - Opening	3900.00	3900.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3900.00	3900.00	0.00	0.00	0.00
	Repayments of Loans during the period	0.00	3900.00	0.00	0.00	0.00
	Net loan - Closing	3900.00	0.00	0.00	0.00	0.00
	Average Net Loan	3900.00	1950.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.3600%	8.3600%	8.3600%	8.3600%	8.3600%
	Interest on Loan Annualised	326.04	163.02	0.00	0.00	0.00
<b>30</b>	<b>Bonds - 60 repayment on 05.05.2026</b>					
	Gross loan - Opening	5200.00	5200.00	5200.00	5200.00	5200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	5200.00	5200.00	5200.00	5200.00	5200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	5200.00	5200.00	5200.00	5200.00	5200.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	5200.00	5200.00	5200.00	5200.00	5200.00
	Average Net Loan	5200.00	5200.00	5200.00	5200.00	5200.00
	Rate of Interest on Loan	8.0800%	8.0800%	8.0800%	8.0800%	8.0800%
	Interest on Loan Annualised	420.16	420.16	420.16	420.16	420.16
<b>31</b>	<b>Bonds Series - 61 repayment on 27.05.2021</b>					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	3000.00	3000.00
	Net loan - Opening	3000.00	3000.00	3000.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	3000.00	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	3000.00	0.00	0.00
	Net loan - Closing	3000.00	3000.00	0.00	0.00	0.00
	Average Net Loan	3000.00	3000.00	1500.00	0.00	0.00
	Rate of Interest on Loan	8.1300%	8.1300%	8.1300%	8.1300%	8.1300%
	Interest on Loan Annualised	243.90	243.90	121.95	0.00	0.00
<b>32</b>	<b>Bonds - 62 repayment on 23.08.2026</b>					
	Gross loan - Opening	6100.00	6100.00	6100.00	6100.00	6100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6100.00	6100.00	6100.00	6100.00	6100.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6100.00	6100.00	6100.00	6100.00	6100.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	6100.00	6100.00	6100.00	6100.00	6100.00
	Average Net Loan	6100.00	6100.00	6100.00	6100.00	6100.00
	Rate of Interest on Loan	7.6100%	7.6100%	7.6100%	7.6100%	7.6100%
	Interest on Loan Annualised	464.21	464.21	464.21	464.21	464.21

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>33</b>	<b>Bonds -64 repayment on 07.11.2031</b>					
	Gross loan - Opening	6800.00	6800.00	6800.00	6800.00	6800.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6800.00	6800.00	6800.00	6800.00	6800.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6800.00	6800.00	6800.00	6800.00	6800.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	6800.00	6800.00	6800.00	6800.00	6800.00
	Average Net Loan	6800.00	6800.00	6800.00	6800.00	6800.00
	Rate of Interest on Loan	7.5200%	7.5200%	7.5200%	7.5200%	7.5200%
	Interest on Loan Annualised	511.36	511.36	511.36	511.36	511.36
<b>34</b>	<b>Bonds - 65 repayment on 24.11.2021</b>					
	Gross loan - Opening	1100.00	1100.00	1100.00	1100.00	1100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1100.00	1100.00
	Net loan - Opening	1100.00	1100.00	1100.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1100.00	1100.00	1100.00	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	1100.00	0.00	0.00
	Net loan - Closing	1100.00	1100.00	0.00	0.00	0.00
	Average Net Loan	1100.00	1100.00	550.00	0.00	0.00
	Rate of Interest on Loan	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%
	Interest on Loan Annualised	74.25	74.25	37.13	0.00	0.00
<b>35</b>	<b>Bonds - 66 repayment on 14.12.2031</b>					
	Gross loan - Opening	12700.00	12700.00	12700.00	12700.00	12700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	12700.00	12700.00	12700.00	12700.00	12700.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	12700.00	12700.00	12700.00	12700.00	12700.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	12700.00	12700.00	12700.00	12700.00	12700.00
	Average Net Loan	12700.00	12700.00	12700.00	12700.00	12700.00
	Rate of Interest on Loan	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on Loan Annualised	939.80	939.80	939.80	939.80	939.80
<b>36</b>	<b>Bonds - 67 repayment on 15.01.2029</b>					
	Gross loan - Opening	38819.65	38819.65	38819.65	38819.65	38819.65
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	38819.65	38819.65	38819.65	38819.65	38819.65
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	38819.65	38819.65	38819.65	38819.65	38819.65
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	38819.65	38819.65	38819.65	38819.65	38819.65
	Average Net Loan	38819.65	38819.65	38819.65	38819.65	38819.65
	Rate of Interest on Loan	8.4200%	8.4200%	8.4200%	8.4200%	8.4200%
	Interest on Loan Annualised	3268.61	3268.61	3268.61	3268.61	3268.61
<b>37</b>	<b>Canara Bank -III (T1 D3)</b>					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	1000.00	2000.00	3000.00	4000.00	5000.00
	Net loan - Opening	9000.00	8000.00	7000.00	6000.00	5000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00

**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	9000.00	8000.00	7000.00	6000.00	5000.00
	Repayments of Loans during the period	1000.00	1000.00	1000.00	1000.00	1000.00
	Net loan - Closing	8000.00	7000.00	6000.00	5000.00	4000.00
	Average Net Loan	8500.00	7500.00	6500.00	5500.00	4500.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	718.25	633.75	549.25	464.75	380.25
<b>38</b>	<b>HDFC BANK LIMITED-II (T1 D4)</b>					
	Gross loan - Opening	3500.00	3500.00	3500.00	3500.00	3500.00
	Cumulative repayments of Loans upto previous period	2500.00	3000.00	3500.00	4500.00	5500.00
	Net loan - Opening	1000.00	500.00	0.00	-1000.00	-2000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	500.00	0.00	-1000.00	-2000.00
	Repayments of Loans during the period	500.00	500.00	1000.00	1000.00	2000.00
	Net loan - Closing	500.00	0.00	-1000.00	-2000.00	-4000.00
	Average Net Loan	750.00	250.00	-500.00	-1500.00	-3000.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	63.38	21.13	-42.25	-126.75	-253.50
<b>39</b>	<b>HDFC BANK LIMITED-III (T1 D4)</b>					
	Gross loan - Opening	5500.00	5500.00	5500.00	5500.00	5500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	611.11	1222.22
	Net loan - Opening	5500.00	5500.00	5500.00	4888.89	4277.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	5500.00	5500.00	5500.00	4888.89	4277.78
	Repayments of Loans during the period	0.00	0.00	611.11	611.11	611.11
	Net loan - Closing	5500.00	5500.00	4888.89	4277.78	3666.67
	Average Net Loan	5500.00	5500.00	5194.44	4583.33	3972.22
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	464.75	464.75	438.93	387.29	335.65
<b>40</b>	<b>HUDCO LIMITED (T1 D1)</b>					
	Gross loan - Opening	1500.00	1500.00	1500.00	1500.00	1500.00
	Cumulative repayments of Loans upto previous period	681.82	818.18	954.55	1090.91	1227.27
	Net loan - Opening	818.18	681.82	545.45	409.09	272.73
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	818.18	681.82	545.45	409.09	272.73
	Repayments of Loans during the period	136.36	136.36	136.36	136.36	136.36
	Net loan - Closing	681.82	545.45	409.09	272.73	136.36
	Average Net Loan	750.00	613.64	477.27	340.91	204.55
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	62.25	50.93	39.61	28.30	16.98

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>41</b>	<b>INDIAN BANK -II (T1 D3)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	3714.29	4000.00	4000.00	4000.00	4000.00
	Net loan - Opening	285.71	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	285.71	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	285.71	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	142.86	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	11.79	0.00	0.00	0.00	0.00
<b>42</b>	<b>Jammu &amp; Kashmir Bank-IV</b>					
	Gross loan - Opening	6200.00	6200.00	6200.00	6200.00	6200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	688.89	1377.78	2066.67
	Net loan - Opening	6200.00	6200.00	5511.11	4822.22	4133.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6200.00	6200.00	5511.11	4822.22	4133.33
	Repayments of Loans during the period	0.00	688.89	688.89	688.89	688.89
	Net loan - Closing	6200.00	5511.11	4822.22	4133.33	3444.44
	Average Net Loan	6200.00	5855.56	5166.67	4477.78	3788.89
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	514.60	486.01	428.83	371.66	314.48
<b>43</b>	<b>Karnataka Bank Ltd II</b>					
	Gross loan - Opening	1786.00	1786.00	1786.00	1786.00	1786.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	198.44	396.89	595.33
	Net loan - Opening	1786.00	1786.00	1587.56	1389.11	1190.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1786.00	1786.00	1587.56	1389.11	1190.67
	Repayments of Loans during the period	0.00	198.44	198.44	198.44	198.44
	Net loan - Closing	1786.00	1587.56	1389.11	1190.67	992.22
	Average Net Loan	1786.00	1686.78	1488.33	1289.89	1091.44
	Rate of Interest on Loan	7.9600%	7.9600%	7.9600%	7.9600%	7.9600%
	Interest on Loan Annualised	142.17	134.27	118.47	102.68	86.88
<b>44</b>	<b>PFC - V (T1 D23)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	1583.33	1916.67	2250.00	2583.33	2916.67
	Net loan - Opening	2416.67	2083.33	1750.00	1416.67	1083.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2416.67	2083.33	1750.00	1416.67	1083.33
	Repayments of Loans during the period	333.33	333.33	333.33	333.33	333.33
	Net loan - Closing	2083.33	1750.00	1416.67	1083.33	750.00
	Average Net Loan	2250.00	1916.67	1583.33	1250.00	916.67
	Rate of Interest on Loan	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
	Interest on Loan Annualised	167.18	142.41	117.64	92.88	68.11

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>45</b>	<b>PFC - V (T1 D25)</b>					
	Gross loan - Opening	6000.00	6000.00	6000.00	6000.00	6000.00
	Cumulative repayments of Loans upto previous period	2375.00	2875.00	3375.00	3875.00	4375.00
	Net loan - Opening	3625.00	3125.00	2625.00	2125.00	1625.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3625.00	3125.00	2625.00	2125.00	1625.00
	Repayments of Loans during the period	500.00	500.00	500.00	500.00	500.00
	Net loan - Closing	3125.00	2625.00	2125.00	1625.00	1125.00
	Average Net Loan	3375.00	2875.00	2375.00	1875.00	1375.00
	Rate of Interest on Loan	7.6700%	7.6700%	7.6700%	7.6700%	7.6700%
	Interest on Loan Annualised	258.86	220.51	182.16	143.81	105.46
<b>46</b>	<b>PFC - V (T1 D28)</b>					
	Gross loan - Opening	12500.00	12500.00	12500.00	12500.00	12500.00
	Cumulative repayments of Loans upto previous period	4947.92	5989.58	7031.25	8072.92	9114.58
	Net loan - Opening	7552.08	6510.42	5468.75	4427.08	3385.42
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7552.08	6510.42	5468.75	4427.08	3385.42
	Repayments of Loans during the period	1041.67	1041.67	1041.67	1041.67	1041.67
	Net loan - Closing	6510.42	5468.75	4427.08	3385.42	2343.75
	Average Net Loan	7031.25	5989.58	4947.92	3906.25	2864.58
	Rate of Interest on Loan	7.7500%	7.7500%	7.7500%	7.7500%	7.7500%
	Interest on Loan Annualised	544.92	464.19	383.46	302.73	222.01
<b>47</b>	<b>PFC - V (T1 D33)</b>					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	989.58	1197.92	1406.25	1614.58	1822.92
	Net loan - Opening	1510.42	1302.08	1093.75	885.42	677.08
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1510.42	1302.08	1093.75	885.42	677.08
	Repayments of Loans during the period	208.33	208.33	208.33	208.33	208.33
	Net loan - Closing	1302.08	1093.75	885.42	677.08	468.75
	Average Net Loan	1406.25	1197.92	989.58	781.25	572.92
	Rate of Interest on Loan	8.9800%	8.9800%	8.9800%	8.9800%	8.9800%
	Interest on Loan Annualised	126.28	107.57	88.86	70.16	51.45
<b>48</b>	<b>PFC - V (T1 D35)</b>					
	Gross loan - Opening	5700.00	5700.00	5700.00	5700.00	5700.00
	Cumulative repayments of Loans upto previous period	2256.25	2731.25	3206.25	3681.25	4156.25
	Net loan - Opening	3443.75	2968.75	2493.75	2018.75	1543.75
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3443.75	2968.75	2493.75	2018.75	1543.75
	Repayments of Loans during the period	475.00	475.00	475.00	475.00	475.00
	Net loan - Closing	2968.75	2493.75	2018.75	1543.75	1068.75
	Average Net Loan	3206.25	2731.25	2256.25	1781.25	1306.25
	Rate of Interest on Loan	8.7700%	8.7700%	8.7700%	8.7700%	8.7700%
	Interest on Loan Annualised	281.19	239.53	197.87	156.22	114.56

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongalgaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>49</b>	<b>PFC - V (T1 D38)</b>					
	Gross loan - Opening	6500.00	6500.00	6500.00	6500.00	6500.00
	Cumulative repayments of Loans upto previous period	2572.92	3114.58	3656.25	4197.92	4739.58
	Net loan - Opening	3927.08	3385.42	2843.75	2302.08	1760.42
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3927.08	3385.42	2843.75	2302.08	1760.42
	Repayments of Loans during the period	541.67	541.67	541.67	541.67	541.67
	Net loan - Closing	3385.42	2843.75	2302.08	1760.42	1218.75
	Average Net Loan	3656.25	3114.58	2572.92	2031.25	1489.58
	Rate of Interest on Loan	8.2300%	8.2300%	8.2300%	8.2300%	8.2300%
	Interest on Loan Annualised	300.91	256.33	211.75	167.17	122.59
<b>50</b>	<b>SBI-VII (T1 D3)</b>					
	Gross loan - Opening	4600.00	4600.00	4600.00	4600.00	4600.00
	Cumulative repayments of Loans upto previous period	2300.00	2587.50	2875.00	3162.50	3450.00
	Net loan - Opening	2300.00	2012.50	1725.00	1437.50	1150.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2300.00	2012.50	1725.00	1437.50	1150.00
	Repayments of Loans during the period	287.50	287.50	287.50	287.50	287.50
	Net loan - Closing	2012.50	1725.00	1437.50	1150.00	862.50
	Average Net Loan	2156.25	1868.75	1581.25	1293.75	1006.25
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	177.89	154.17	130.45	106.73	83.02
<b>51</b>	<b>SBI-VII (T1 D4)</b>					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	1250.00	1406.25	1562.50	1718.75	1875.00
	Net loan - Opening	1250.00	1093.75	937.50	781.25	625.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1250.00	1093.75	937.50	781.25	625.00
	Repayments of Loans during the period	156.25	156.25	156.25	156.25	156.25
	Net loan - Closing	1093.75	937.50	781.25	625.00	468.75
	Average Net Loan	1171.88	1015.63	859.38	703.13	546.88
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	96.68	83.79	70.90	58.01	45.12
<b>52</b>	<b>SBI-VII (T1 D6)</b>					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	5000.00	5625.00	6250.00	6875.00	7500.00
	Net loan - Opening	5000.00	4375.00	3750.00	3125.00	2500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	5000.00	4375.00	3750.00	3125.00	2500.00
	Repayments of Loans during the period	625.00	625.00	625.00	625.00	625.00
	Net loan - Closing	4375.00	3750.00	3125.00	2500.00	1875.00
	Average Net Loan	4687.50	4062.50	3437.50	2812.50	2187.50
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	386.72	335.16	283.59	232.03	180.47

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongalgaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>53</b>	<b>SBI-VII (T1 D7)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	2000.00	2250.00	2500.00	2750.00	3000.00
	Net loan - Opening	2000.00	1750.00	1500.00	1250.00	1000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	1750.00	1500.00	1250.00	1000.00
	Repayments of Loans during the period	250.00	250.00	250.00	250.00	250.00
	Net loan - Closing	1750.00	1500.00	1250.00	1000.00	750.00
	Average Net Loan	1875.00	1625.00	1375.00	1125.00	875.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	154.69	134.06	113.44	92.81	72.19
<b>54</b>	<b>SBI-VII (T1 D8)</b>					
	Gross loan - Opening	3400.00	3400.00	3400.00	3400.00	3400.00
	Cumulative repayments of Loans upto previous period	1700.00	1912.50	2125.00	2337.50	2550.00
	Net loan - Opening	1700.00	1487.50	1275.00	1062.50	850.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1700.00	1487.50	1275.00	1062.50	850.00
	Repayments of Loans during the period	212.50	212.50	212.50	212.50	212.50
	Net loan - Closing	1487.50	1275.00	1062.50	850.00	637.50
	Average Net Loan	1593.75	1381.25	1168.75	956.25	743.75
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	131.48	113.95	96.42	78.89	61.36
<b>55</b>	<b>SBI-VII (T1 D10)</b>					
	Gross loan - Opening	6000.00	6000.00	6000.00	6000.00	6000.00
	Cumulative repayments of Loans upto previous period	3000.00	3375.00	3750.00	4125.00	4500.00
	Net loan - Opening	3000.00	2625.00	2250.00	1875.00	1500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	2625.00	2250.00	1875.00	1500.00
	Repayments of Loans during the period	375.00	375.00	375.00	375.00	375.00
	Net loan - Closing	2625.00	2250.00	1875.00	1500.00	1125.00
	Average Net Loan	2812.50	2437.50	2062.50	1687.50	1312.50
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	232.03	201.09	170.16	139.22	108.28
<b>56</b>	<b>SBI-VII (T1 D19)</b>					
	Gross loan - Opening	1800.00	1800.00	1800.00	1800.00	1800.00
	Cumulative repayments of Loans upto previous period	900.00	1012.50	1125.00	1237.50	1350.00
	Net loan - Opening	900.00	787.50	675.00	562.50	450.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	900.00	787.50	675.00	562.50	450.00
	Repayments of Loans during the period	112.50	112.50	112.50	112.50	112.50
	Net loan - Closing	787.50	675.00	562.50	450.00	337.50
	Average Net Loan	843.75	731.25	618.75	506.25	393.75
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	69.61	60.33	51.05	41.77	32.48

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>57</b>	<b>SBI-VIII (T1 D2)</b>					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1111.11	2222.22
	Net loan - Opening	10000.00	10000.00	10000.00	8888.89	7777.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	10000.00	10000.00	10000.00	8888.89	7777.78
	Repayments of Loans during the period	0.00	0.00	1111.11	1111.11	1111.11
	Net loan - Closing	10000.00	10000.00	8888.89	7777.78	6666.67
	Average Net Loan	10000.00	10000.00	9444.44	8333.33	7222.22
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	878.00	878.00	829.22	731.67	634.11
<b>58</b>	<b>SBI-VIII (T1 D4)</b>					
	Gross loan - Opening	6100.00	6100.00	6100.00	6100.00	6100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	677.78	1355.56
	Net loan - Opening	6100.00	6100.00	6100.00	5422.22	4744.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6100.00	6100.00	6100.00	5422.22	4744.44
	Repayments of Loans during the period	0.00	0.00	677.78	677.78	677.78
	Net loan - Closing	6100.00	6100.00	5422.22	4744.44	4066.67
	Average Net Loan	6100.00	6100.00	5761.11	5083.33	4405.56
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	535.58	535.58	505.83	446.32	386.81
<b>59</b>	<b>SBI-VIII (T1 D5)</b>					
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	111.11	222.22
	Net loan - Opening	1000.00	1000.00	1000.00	888.89	777.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	1000.00	1000.00	888.89	777.78
	Repayments of Loans during the period	0.00	0.00	111.11	111.11	111.11
	Net loan - Closing	1000.00	1000.00	888.89	777.78	666.67
	Average Net Loan	1000.00	1000.00	944.44	833.33	722.22
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	87.80	87.80	82.92	73.17	63.41
<b>60</b>	<b>SBI-VIII (T1 D7)</b>					
	Gross loan - Opening	1100.00	1100.00	1100.00	1100.00	1100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	122.22	244.44
	Net loan - Opening	1100.00	1100.00	1100.00	977.78	855.56
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1100.00	1100.00	1100.00	977.78	855.56
	Repayments of Loans during the period	0.00	0.00	122.22	122.22	122.22
	Net loan - Closing	1100.00	1100.00	977.78	855.56	733.33
	Average Net Loan	1100.00	1100.00	1038.89	916.67	794.44
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	96.58	96.58	91.21	80.48	69.75

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>61</b>	<b>SBI-VIII (T1 D8)</b>					
	Gross loan - Opening	2300.00	2300.00	2300.00	2300.00	2300.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	255.56	511.11
	Net loan - Opening	2300.00	2300.00	2300.00	2044.44	1788.89
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2300.00	2300.00	2300.00	2044.44	1788.89
	Repayments of Loans during the period	0.00	0.00	255.56	255.56	255.56
	Net loan - Closing	2300.00	2300.00	2044.44	1788.89	1533.33
	Average Net Loan	2300.00	2300.00	2172.22	1916.67	1661.11
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	201.94	201.94	190.72	168.28	145.85
<b>62</b>	<b>SBI-VIII (T1 D11)</b>					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	333.33	666.67
	Net loan - Opening	3000.00	3000.00	3000.00	2666.67	2333.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	3000.00	2666.67	2333.33
	Repayments of Loans during the period	0.00	0.00	333.33	333.33	333.33
	Net loan - Closing	3000.00	3000.00	2666.67	2333.33	2000.00
	Average Net Loan	3000.00	3000.00	2833.33	2500.00	2166.67
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	263.40	263.40	248.77	219.50	190.23
<b>63</b>	<b>SBI-VIII (T1 D12)</b>					
	Gross loan - Opening	3200.00	3200.00	3200.00	3200.00	3200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	355.56	711.11
	Net loan - Opening	3200.00	3200.00	3200.00	2844.44	2488.89
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3200.00	3200.00	3200.00	2844.44	2488.89
	Repayments of Loans during the period	0.00	0.00	355.56	355.56	355.56
	Net loan - Closing	3200.00	3200.00	2844.44	2488.89	2133.33
	Average Net Loan	3200.00	3200.00	3022.22	2666.67	2311.11
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	280.96	280.96	265.35	234.13	202.92
<b>64</b>	<b>SBI-VIII (T1 D13)</b>					
	Gross loan - Opening	1400.00	1400.00	1400.00	1400.00	1400.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	155.56	311.11
	Net loan - Opening	1400.00	1400.00	1400.00	1244.44	1088.89
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1400.00	1400.00	1400.00	1244.44	1088.89
	Repayments of Loans during the period	0.00	0.00	155.56	155.56	155.56
	Net loan - Closing	1400.00	1400.00	1244.44	1088.89	933.33
	Average Net Loan	1400.00	1400.00	1322.22	1166.67	1011.11
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	122.92	122.92	116.09	102.43	88.78

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>65</b>	<b>SBI-VIII (T1 D14)</b>					
	Gross loan - Opening	2200.00	2200.00	2200.00	2200.00	2200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	244.44	488.89
	Net loan - Opening	2200.00	2200.00	2200.00	1955.56	1711.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2200.00	2200.00	2200.00	1955.56	1711.11
	Repayments of Loans during the period	0.00	0.00	244.44	244.44	244.44
	Net loan - Closing	2200.00	2200.00	1955.56	1711.11	1466.67
	Average Net Loan	2200.00	2200.00	2077.78	1833.33	1588.89
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	193.16	193.16	182.43	160.97	139.50
<b>66</b>	<b>SBI-VIII (T1 D15)</b>					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	222.22	444.44
	Net loan - Opening	2000.00	2000.00	2000.00	1777.78	1555.56
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	2000.00	2000.00	1777.78	1555.56
	Repayments of Loans during the period	0.00	0.00	222.22	222.22	222.22
	Net loan - Closing	2000.00	2000.00	1777.78	1555.56	1333.33
	Average Net Loan	2000.00	2000.00	1888.89	1666.67	1444.44
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	175.60	175.60	165.84	146.33	126.82
<b>67</b>	<b>SBI-VIII (T1 D16)</b>					
	Gross loan - Opening	6000.00	6000.00	6000.00	6000.00	6000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	666.67	1333.33
	Net loan - Opening	6000.00	6000.00	6000.00	5333.33	4666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6000.00	6000.00	6000.00	5333.33	4666.67
	Repayments of Loans during the period	0.00	0.00	666.67	666.67	666.67
	Net loan - Closing	6000.00	6000.00	5333.33	4666.67	4000.00
	Average Net Loan	6000.00	6000.00	5666.67	5000.00	4333.33
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	526.80	526.80	497.53	439.00	380.47
<b>68</b>	<b>SBI-VIII (T1 D18)</b>					
	Gross loan - Opening	7000.00	7000.00	7000.00	7000.00	7000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	777.78	1555.56
	Net loan - Opening	7000.00	7000.00	7000.00	6222.22	5444.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7000.00	7000.00	7000.00	6222.22	5444.44
	Repayments of Loans during the period	0.00	0.00	777.78	777.78	777.78
	Net loan - Closing	7000.00	7000.00	6222.22	5444.44	4666.67
	Average Net Loan	7000.00	7000.00	6611.11	5833.33	5055.56
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	614.60	614.60	580.46	512.17	443.88

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>69</b>	<b>SBI-VIII (T1 D19)</b>					
	Gross loan - Opening	1700.00	1700.00	1700.00	1700.00	1700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	188.89	377.78
	Net loan - Opening	1700.00	1700.00	1700.00	1511.11	1322.22
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1700.00	1700.00	1700.00	1511.11	1322.22
	Repayments of Loans during the period	0.00	0.00	188.89	188.89	188.89
	Net loan - Closing	1700.00	1700.00	1511.11	1322.22	1133.33
	Average Net Loan	1700.00	1700.00	1605.56	1416.67	1227.78
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	149.26	149.26	140.97	124.38	107.80
<b>70</b>	<b>SBI-VIII (T1 D21)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	444.44	888.89
	Net loan - Opening	4000.00	4000.00	4000.00	3555.56	3111.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4000.00	4000.00	4000.00	3555.56	3111.11
	Repayments of Loans during the period	0.00	0.00	444.44	444.44	444.44
	Net loan - Closing	4000.00	4000.00	3555.56	3111.11	2666.67
	Average Net Loan	4000.00	4000.00	3777.78	3333.33	2888.89
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	351.20	351.20	331.69	292.67	253.64
<b>71</b>	<b>SBI-VIII (T1 D24)</b>					
	Gross loan - Opening	3428.57	3428.57	3428.57	3428.57	3428.57
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	380.95	761.90
	Net loan - Opening	3428.57	3428.57	3428.57	3047.62	2666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3428.57	3428.57	3428.57	3047.62	2666.67
	Repayments of Loans during the period	0.00	0.00	380.95	380.95	380.95
	Net loan - Closing	3428.57	3428.57	3047.62	2666.67	2285.71
	Average Net Loan	3428.57	3428.57	3238.09	2857.14	2476.19
	Rate of Interest on Loan	8.7800%	8.7800%	8.7800%	8.7800%	8.7800%
	Interest on Loan Annualised	301.03	301.03	284.30	250.86	217.41
<b>72</b>	<b>SBI-IX (T1 D1)</b>					
	Gross loan - Opening	3600.00	3600.00	3600.00	3600.00	3600.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	400.00	800.00	1200.00
	Net loan - Opening	3600.00	3600.00	3200.00	2800.00	2400.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3600.00	3600.00	3200.00	2800.00	2400.00
	Repayments of Loans during the period	0.00	400.00	400.00	400.00	400.00
	Net loan - Closing	3600.00	3200.00	2800.00	2400.00	2000.00
	Average Net Loan	3600.00	3400.00	3000.00	2600.00	2200.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	297.00	280.50	247.50	214.50	181.50

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>73</b>	<b>SBI-IX (T1 D2)</b>					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	222.22	444.44	666.67
	Net loan - Opening	2000.00	2000.00	1777.78	1555.56	1333.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	2000.00	1777.78	1555.56	1333.33
	Repayments of Loans during the period	0.00	222.22	222.22	222.22	222.22
	Net loan - Closing	2000.00	1777.78	1555.56	1333.33	1111.11
	Average Net Loan	2000.00	1888.89	1666.67	1444.44	1222.22
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	165.00	155.83	137.50	119.17	100.83
<b>74</b>	<b>SBI-IX (T1 D7)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	444.44	888.89	1333.33
	Net loan - Opening	4000.00	4000.00	3555.56	3111.11	2666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4000.00	4000.00	3555.56	3111.11	2666.67
	Repayments of Loans during the period	0.00	444.44	444.44	444.44	444.44
	Net loan - Closing	4000.00	3555.56	3111.11	2666.67	2222.22
	Average Net Loan	4000.00	3777.78	3333.33	2888.89	2444.44
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	330.00	311.67	275.00	238.33	201.67
<b>75</b>	<b>SBI-IX (T1 D8)</b>					
	Gross loan - Opening	800.00	800.00	800.00	800.00	800.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	88.89	177.78	266.67
	Net loan - Opening	800.00	800.00	711.11	622.22	533.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	800.00	800.00	711.11	622.22	533.33
	Repayments of Loans during the period	0.00	88.89	88.89	88.89	88.89
	Net loan - Closing	800.00	711.11	622.22	533.33	444.44
	Average Net Loan	800.00	755.56	666.67	577.78	488.89
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	66.00	62.33	55.00	47.67	40.33
<b>76</b>	<b>SBI-IX (T1 D10)</b>					
	Gross loan - Opening	1500.00	1500.00	1500.00	1500.00	1500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	166.67	333.33	500.00
	Net loan - Opening	1500.00	1500.00	1333.33	1166.67	1000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1500.00	1500.00	1333.33	1166.67	1000.00
	Repayments of Loans during the period	0.00	166.67	166.67	166.67	166.67
	Net loan - Closing	1500.00	1333.33	1166.67	1000.00	833.33
	Average Net Loan	1500.00	1416.67	1250.00	1083.33	916.67
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan Annualised	123.75	116.88	103.13	89.38	75.63

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>77</b>	<b>SBI-X (T1 D1)</b>					
	Gross loan - Opening	21103.00	21103.00	21103.00	21103.00	21103.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	21103.00	21103.00	21103.00	21103.00	21103.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	21103.00	21103.00	21103.00	21103.00	21103.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	21103.00	21103.00	21103.00	21103.00	21103.00
	Average Net Loan	21103.00	21103.00	21103.00	21103.00	21103.00
	Rate of Interest on Loan	9.2800%	9.2800%	9.2800%	9.2800%	9.2800%
	Interest on Loan Annualised	1958.36	1958.36	1958.36	1958.36	1958.36
<b>78</b>	<b>SBI-X (T1 D3)</b>					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	2000.00	2000.00	2000.00	2000.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	2000.00	2000.00	2000.00	2000.00	2000.00
	Average Net Loan	2000.00	2000.00	2000.00	2000.00	2000.00
	Rate of Interest on Loan	9.2800%	9.2800%	9.2800%	9.2800%	9.2800%
	Interest on Loan Annualised	185.60	185.60	185.60	185.60	185.60
<b>79</b>	<b>SBI-X (T1 D8)</b>					
	Gross loan - Opening	3900.00	3900.00	3900.00	3900.00	3900.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	3900.00	3900.00	3900.00	3900.00	3900.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3900.00	3900.00	3900.00	3900.00	3900.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	3900.00	3900.00	3900.00	3900.00	3900.00
	Average Net Loan	3900.00	3900.00	3900.00	3900.00	3900.00
	Rate of Interest on Loan	9.2800%	9.2800%	9.2800%	9.2800%	9.2800%
	Interest on Loan Annualised	361.92	361.92	361.92	361.92	361.92
<b>80</b>	<b>SBI-XI (T1 D1)</b>					
	Gross loan - Opening	2200.00	2200.00	2200.00	2200.00	2200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	244.44
	Net loan - Opening	2200.00	2200.00	2200.00	2200.00	1955.56
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2200.00	2200.00	2200.00	2200.00	1955.56
	Repayments of Loans during the period	0.00	0.00	0.00	244.44	244.44
	Net loan - Closing	2200.00	2200.00	2200.00	1955.56	1711.11
	Average Net Loan	2200.00	2200.00	2200.00	2077.78	1833.33
	Rate of Interest on Loan	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest on Loan Annualised	183.70	183.70	183.70	173.49	153.08

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>81</b>	<b>SBI-XI (T1 D3)</b>					
	Gross loan - Opening	2700.00	2700.00	2700.00	2700.00	2700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	300.00
	Net loan - Opening	2700.00	2700.00	2700.00	2700.00	2400.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2700.00	2700.00	2700.00	2700.00	2400.00
	Repayments of Loans during the period	0.00	0.00	0.00	300.00	300.00
	Net loan - Closing	2700.00	2700.00	2700.00	2400.00	2100.00
	Average Net Loan	2700.00	2700.00	2700.00	2550.00	2250.00
	Rate of Interest on Loan	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest on Loan Annualised	225.45	225.45	225.45	212.93	187.88
<b>82</b>	<b>SBI-XI (T1 D4)</b>					
	Gross loan - Opening	1100.00	1100.00	1100.00	1100.00	1100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	122.22
	Net loan - Opening	1100.00	1100.00	1100.00	1100.00	977.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1100.00	1100.00	1100.00	1100.00	977.78
	Repayments of Loans during the period	0.00	0.00	0.00	122.22	122.22
	Net loan - Closing	1100.00	1100.00	1100.00	977.78	855.56
	Average Net Loan	1100.00	1100.00	1100.00	1038.89	916.67
	Rate of Interest on Loan	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest on Loan Annualised	91.85	91.85	91.85	86.75	76.54
<b>83</b>	<b>SBI-XII (T1 D1)</b>					
	Gross loan - Opening	6500.00	6500.00	6500.00	6500.00	6500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	6500.00	6500.00	6500.00	6500.00	6500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6500.00	6500.00	6500.00	6500.00	6500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	6500.00	6500.00	6500.00	6500.00	6500.00
	Average Net Loan	6500.00	6500.00	6500.00	6500.00	6500.00
	Rate of Interest on Loan	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest on Loan Annualised	542.75	542.75	542.75	542.75	542.75
<b>84</b>	<b>PNB III (T1 D1)</b>					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	277.78	555.56
	Net loan - Opening	2500.00	2500.00	2500.00	2222.22	1944.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2500.00	2500.00	2500.00	2222.22	1944.44
	Repayments of Loans during the period	0.00	0.00	277.78	277.78	277.78
	Net loan - Closing	2500.00	2500.00	2222.22	1944.44	1666.67
	Average Net Loan	2500.00	2500.00	2361.11	2083.33	1805.56
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	207.50	207.50	195.97	172.92	149.86

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Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>85</b>	<b>PNB III (T1 D5)</b>					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1111.11	2222.22
	Net loan - Opening	10000.00	10000.00	10000.00	8888.89	7777.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	10000.00	10000.00	10000.00	8888.89	7777.78
	Repayments of Loans during the period	0.00	0.00	1111.11	1111.11	1111.11
	Net loan - Closing	10000.00	10000.00	8888.89	7777.78	6666.67
	Average Net Loan	10000.00	10000.00	9444.44	8333.33	7222.22
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	830.00	830.00	783.89	691.67	599.44
<b>86</b>	<b>PNB IV (T1 D1)</b>					
	Gross loan - Opening	3643.00	3643.00	3643.00	3643.00	3643.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	404.78	809.56
	Net loan - Opening	3643.00	3643.00	3643.00	3238.22	2833.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3643.00	3643.00	3643.00	3238.22	2833.44
	Repayments of Loans during the period	0.00	0.00	404.78	404.78	404.78
	Net loan - Closing	3643.00	3643.00	3238.22	2833.44	2428.67
	Average Net Loan	3643.00	3643.00	3440.61	3035.83	2631.06
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan Annualised	302.37	302.37	285.57	251.97	218.38
<b>87</b>	<b>HDFC BANK LIMITED-IV (T D3)</b>					
	Gross loan - Opening	4000.00	4000.00	4000.00	4000.00	4000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	444.44	888.89
	Net loan - Opening	4000.00	4000.00	4000.00	3555.56	3111.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4000.00	4000.00	4000.00	3555.56	3111.11
	Repayments of Loans during the period	0.00	0.00	444.44	444.44	444.44
	Net loan - Closing	4000.00	4000.00	3555.56	3111.11	2666.67
	Average Net Loan	4000.00	4000.00	3777.78	3333.33	2888.89
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	338.00	338.00	319.22	281.67	244.11
<b>88</b>	<b>HDFC BANK LIMITED-V (T D3)</b>					
	Gross loan - Opening	2700.00	2700.00	2700.00	2700.00	2700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	2700.00	2700.00	2700.00	2700.00	2700.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2700.00	2700.00	2700.00	2700.00	2700.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	2700.00	2700.00	2700.00	2700.00	2700.00
	Average Net Loan	2700.00	2700.00	2700.00	2700.00	2700.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	228.15	228.15	228.15	228.15	228.15

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>89</b>	<b>HDFC BANK LIMITED-V (T D7)</b>					
	Gross loan - Opening	1100.00	1100.00	1100.00	1100.00	1100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1100.00	1100.00	1100.00	1100.00	1100.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1100.00	1100.00	1100.00	1100.00	1100.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1100.00	1100.00	1100.00	1100.00	1100.00
	Average Net Loan	1100.00	1100.00	1100.00	1100.00	1100.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	92.95	92.95	92.95	92.95	92.95
<b>90</b>	<b>HDFC BANK LIMITED-V (T D8)</b>					
	Gross loan - Opening	4200.00	4200.00	4200.00	4200.00	4200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	4200.00	4200.00	4200.00	4200.00	4200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4200.00	4200.00	4200.00	4200.00	4200.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	4200.00	4200.00	4200.00	4200.00	4200.00
	Average Net Loan	4200.00	4200.00	4200.00	4200.00	4200.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	354.90	354.90	354.90	354.90	354.90
<b>91</b>	<b>HDFC BANK LIMITED-V (T D10)</b>					
	Gross loan - Opening	1200.00	1200.00	1200.00	1200.00	1200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1200.00	1200.00	1200.00	1200.00	1200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1200.00	1200.00	1200.00	1200.00	1200.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1200.00	1200.00	1200.00	1200.00	1200.00
	Average Net Loan	1200.00	1200.00	1200.00	1200.00	1200.00
	Rate of Interest on Loan	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on Loan Annualised	0.00	0.00	0.00	0.00	0.00
<b>92</b>	<b>ICICI- IV (T D)</b>					
	Gross loan - Opening	3643.00	3643.00	3643.00	3643.00	3643.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	404.78
	Net loan - Opening	3643.00	3643.00	3643.00	3643.00	3238.22
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3643.00	3643.00	3643.00	3643.00	3238.22
	Repayments of Loans during the period	0.00	0.00	0.00	404.78	404.78
	Net loan - Closing	3643.00	3643.00	3643.00	3238.22	2833.44
	Average Net Loan	3643.00	3643.00	3643.00	3440.61	3035.83
	Rate of Interest on Loan	9.2000%	9.2000%	9.2000%	9.2000%	9.2000%
	Interest on Loan Annualised	335.16	335.16	335.16	316.54	279.30

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**Calculation of Interest on Actual Loans**

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>93</b>	<b>Syndicate Bank III (T1 D1)</b>					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	625.00	875.00	1125.00	1375.00	1625.00
	Net loan - Opening	1375.00	1125.00	875.00	625.00	375.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1375.00	1125.00	875.00	625.00	375.00
	Repayments of Loans during the period	250.00	250.00	250.00	250.00	250.00
	Net loan - Closing	1125.00	875.00	625.00	375.00	125.00
	Average Net Loan	1250.00	1000.00	750.00	500.00	250.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	105.63	84.50	63.38	42.25	21.13
<b>94</b>	<b>Syndicate Bank (T1 D7)</b>					
	Gross loan - Opening	7000.00	7000.00	7000.00	7000.00	7000.00
	Cumulative repayments of Loans upto previous period	2187.50	3062.50	3937.50	4812.50	5687.50
	Net loan - Opening	4812.50	3937.50	3062.50	2187.50	1312.50
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4812.50	3937.50	3062.50	2187.50	1312.50
	Repayments of Loans during the period	875.00	875.00	875.00	875.00	875.00
	Net loan - Closing	3937.50	3062.50	2187.50	1312.50	437.50
	Average Net Loan	4375.00	3500.00	2625.00	1750.00	875.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	369.69	295.75	221.81	147.88	73.94
<b>95</b>	<b>Syndicate Bank (T1 D8)</b>					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period	1562.50	2187.50	2812.50	3437.50	4062.50
	Net loan - Opening	3437.50	2812.50	2187.50	1562.50	937.50
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3437.50	2812.50	2187.50	1562.50	937.50
	Repayments of Loans during the period	625.00	625.00	625.00	625.00	625.00
	Net loan - Closing	2812.50	2187.50	1562.50	937.50	312.50
	Average Net Loan	3125.00	2500.00	1875.00	1250.00	625.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	264.06	211.25	158.44	105.63	52.81
<b>96</b>	<b>Syndicate Bank (T1 D10)</b>					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments of Loans upto previous period	3125.00	4375.00	5625.00	6875.00	8125.00
	Net loan - Opening	6875.00	5625.00	4375.00	3125.00	1875.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6875.00	5625.00	4375.00	3125.00	1875.00
	Repayments of Loans during the period	1250.00	1250.00	1250.00	1250.00	1250.00
	Net loan - Closing	5625.00	4375.00	3125.00	1875.00	625.00
	Average Net Loan	6250.00	5000.00	3750.00	2500.00	1250.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	528.13	422.50	316.88	211.25	105.63

Calculation of Interest on Actual Loans

FORM-13

Name of the Company  
Name of the Power Station

NTPC LTD.  
Bongaigaon TPS

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
<b>97</b>	<b>Union Bank of India -II (T1 D11)</b>					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period	1250.00	1750.00	2250.00	2750.00	3250.00
	Net loan - Opening	3750.00	3250.00	2750.00	2250.00	1750.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3750.00	3250.00	2750.00	2250.00	1750.00
	Repayments of Loans during the period	500.00	500.00	500.00	500.00	500.00
	Net loan - Closing	3250.00	2750.00	2250.00	1750.00	1250.00
	Average Net Loan	3500.00	3000.00	2500.00	2000.00	1500.00
	Rate of Interest on Loan	8.5000%	8.5000%	8.5000%	8.5000%	8.5000%
	Interest on Loan Annualised	297.50	255.00	212.50	170.00	127.50
<b>98</b>	<b>HDFC Bank Ltd. VI (T1 D2)</b>					
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	1000.00	1000.00	1000.00	1000.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1000.00	1000.00	1000.00	1000.00	1000.00
	Average Net Loan	1000.00	1000.00	1000.00	1000.00	1000.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan Annualised	84.50	84.50	84.50	84.50	84.50
	<b>TOTAL LOAN</b>					
	Gross loan - Opening	550,216	550,216	550,216	550,216	550,216
	Cumulative repayments of Loans upto previous period	47,521	64,306	81,758	162,201	223,511
	Net loan - Opening	502,695	485,911	468,458	388,015	326,705
	Increase/ Decrease due to FERV	-	-	-	-	-
	Increase/ Decrease due to ACE/Drawl during the period	-	-	-	-	-
	Total	502,695	485,911	468,458	388,015	326,705
	Repayments of Loans during the period	16,785	17,452	80,443	61,310	54,361
	Net loan - Closing	485,911	468,458	388,015	326,705	272,345
	Average Net Loan	494,303	477,184	428,237	357,360	299,525
	Rate of Interest on Loan	7.9443%	7.9375%	7.9326%	7.9697%	7.9652%
	Interest on Loan Annualised	39,269	37,877	33,970	28,481	23,858

PETITIONER

Details of information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of Tariff) Regulation 2014

COMPUTATION OF ENERGY CHARGES

Name of the petitioner- **NTPC Ltd**

Name of the Generating station- **Bongaigaon Thermal Power Project**

SI.NO.	Particulars	UNIT	Domestic coal		Imported coal	
			Oct-18			
			Supplied by MGR	Supplied by Rail	E-auction	
1	Quantity of coal supplied by coal company*	(MT)		105,991.04		
2	Adjustment(+/-) in quantity supplied made by coal company	(MT)		-		
3	Coal supplied by coal company(1+2)	(MT)		105,991.04		
4	Normative Transit & handing losses	(MT)		595.83		
5	Net coal supplied (3-4)	(MT)		105,395.20		
6	Amount charged by the coal company*	₹		488,077,517.52		
7	Adjustment(+/-) in amount charged made by coal company	₹		-37,459,332.00		
8	Total amount charged(6+7)	₹		450,618,185.52		
9	Transportation charges by rail/ship/road transport	₹		111,089,913.00		
10	Adjustment(+/-) in amount charged made by railways/transport company	₹		-		
11	Demurrage charges,if any	₹		-		
12	Cost of diesel in transpoting coal through MGR system	₹		883,146.22		
13	Total transportation charges (9+10+11+12)	₹		111,973,059.22		
13A	Others (stone picking charges,loco driver salary,sampling charges etc.	₹		7,899,965.03		
14	Total amount charged for coal supplied including transportation(8+13+13A)	₹		570,491,209.77		
15	Landed cost of coal	(₹/MT)		5412.88		
16	Blending ratio(Domestic/Imported)			N/A		
17	Weighted average cost of coal	(₹/MT)		5412.88		
18	GCV of domestic coal as per bill of coal company	(kCai/kg)		5872		
19	GCV of imported coal as per bill of coal company	(kCai/kg)		N/A		
20	Weighted average GCV of coal as billed	(kCai/kg)		5872.00		
21	Weighted average GCV of coal as received at station	(kCai/kg)		4288.90		

\* Includes opening stock

*Ajay*  
*DGM (F)*  
**अजय साहू**  
**AJAY SAHOO**  
उप महाप्रबंधक (वित्त) एस.एस.सी./ई आर-॥  
Dy. General Manager (Fin)SSC/ER-II  
एनटीपीसी लिमिटेड/तालचर कनिहा  
NTPC Limited / Talcher Kaniha

*K*  
**For C.K. PRUSTY & ASSOCIATES**  
Chartered Accountants  
Firm Reg. No. 323220E

**CA C.K. PRUSTY, FCA**  
Partner  
M. No.- 057318

Details of information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of Tariff) Regulation 2014

COMPUTATION OF ENERGY CHARGES

Name of the petitioner- **NTPC Ltd**

Name of the Generating station- **Bongaigaon Thermal Power Project**

SI.NO.	Particulars	UNIT	Domestic coal			Imported coal	
			Nov-18				
			Supplied by MGR	Supplied by Rail	E-auction		
1	Quantity of coal supplied by coal company*	(MT)		139,019.68		-	-
2	Adjustment(+/-) in quantity supplied made by coal company	(MT)		-		-	-
3	Coal supplied by coal company(1+2)	(MT)		139,019.68		-	-
4	Normative Transit & handing losses	(MT)		1,052.68		-	-
5	Net coal supplied (3-4)	(MT)		137,967.01		-	-
6	Amount charged by the coal company*	₹		644,082,001.43		-	-
7	Adjustment(+/-) in amount charged made by coal company	₹		-91,859,934.00		-	-
8	Total amount charged(6+7)	₹		552,222,067.43		-	-
9	Transportation charges by rail/ship/road transport	₹		193,285,334.00		-	-
10	Adjustment(+/-) in amount charged made by railways/transport company	₹		-		-	-
11	Demurrage charges,if any	₹		-		-	-
12	Cost of diesel in transporting coal through MGR system	₹		952,675.50		-	-
13	Total transportation charges (9+10+11+12)	₹		194,238,009.50		-	-
13A	Others (stone picking charges, loco driver salary, sampling charges etc.	₹		8,605,258.03		-	-
14	Total amount charged for coal supplied including transportation(8+13+13A)	₹		755,065,334.96		-	-
15	Landed cost of coal	(₹/MT)				5472.80	
16	Blending ratio(Domestic/Imported)					N/A	
17	Weighted average cost of coal	(₹/MT)				5472.80	
18	GCV of domestic coal as per bill of coal company	(kCai/kg)				5855	
19	GCV of imported coal as per bill of coal company	(kCai/kg)				N/A	
20	Weighted average GCV of coal as billed	(kCai/kg)				5855.00	
21	Weighted average GCV of coal as received at station	(kCai/kg)				4599.10	

\* Includes opening stock

*As per*  
*DGM (F)*  
**अजय साहु**  
**AJAY SAHOO**  
उप महाप्रबंधक (वित्त) एस.एस.सी. / ई आर-II  
Dy. General Manager (Fin) SSC/ER-II  
एनटीपीसी लिमिटेड / तालचर कनिहा  
NTPC Limited / Talcher Kaniha

*[Signature]*  
**For C.K. PRUSTY & ASSOCIATES**  
**Chartered Accountants**  
**Firm Reg. No. 323220E**

**CA C.K. PRUSTY, FCA**  
**Partner**  
**M. No.- 057318**

Details of information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of Tariff) Regulation 2014

COMPUTATION OF ENERGY CHARGES

Name of the petitioner- NTPC Ltd

Name of the Generating station- Bongaiqaon Thermal Power Project

Sl.NO.	Particulars	UNIT	Domestic coal			Imported coal	
			Dec-18				
			Supplied by MGR	Supplied by Rail	E-auction		
1	Quantity of coal supplied by coal company*	(MT)		129,144.07			
2	Adjustment(+/-) in quantity supplied made by coal company	(MT)		-			
3	Coal supplied by coal company(1+2)	(MT)		129,144.07			
4	Normative Transit & handing losses	(MT)		891.57			
5	Net coal supplied (3-4)	(MT)		128,252.50			
6	Amount charged by the coal company*	₹		567,644,176.69			
7	Adjustment(+/-)in amount charged made by coal company	₹		-46,980,735.00			
8	Total amount charged(6+7)	₹		520,663,441.69			
9	Transportation charges by rail/ship/road transport	₹		168,151,278.00			
10	Adjustment(+/-) in amount charged made by railways/transport company	₹		-			
11	Demurrage charges,if any	₹		-			
12	Cost of diesel in transpoting coal through MGR system	₹		1,092,610.91			
13	Total transportation charges (9+/10+11+12)	₹		169,243,888.91			
13A	Others (stone picking charges, loco driver salary, sampling charges etc.	₹		8,357,080.47			
14	Total amount charged for coal supplied including transportation(8+13+13A)	₹		698,264,411.07			
15	Landed cost of coal	(₹/MT)			5444.45		
16	Blending ratio(Domestic/imported)				N/A		
17	Weighted average cost of coal	(₹/MT)			5444.45		
18	GCV of domestic coal as per bill of coal company	(kCai/kg)			5649		
19	GCV of imported coal as per bill of coal company	(kCai/kg)			N/A		
20	Weighted average GCV of coal as billed	(kCai/kg)			5649.00		
21	Weighted average GCV of coal as received at station	(kCai/kg)			4651.60		

\* Includes opening stock

*Ashu*  
*DGM(A)*  
**अजय साहु**  
**AJAY SAHOO**  
उप महाप्रबंधक (वित्त) एस्.एस्.सी. / ई आर-॥  
Dy. General Manager (Fin) SSC/ER-II  
एनटीपीसी लिमिटेड / ताचर कनिहा  
NTPC Limited / Talcher Kaniha

*X*  
**For C.K. PRUSTY & ASSOCIATES**  
**Chartered Accountants**  
**Firm Reg. No. 323220E**

**CA C.K. PRUSTY, FCA**  
**Partner**  
**M. No.- 057318**

Name of the Company :

NTPC Limited

FORM 15 - OIL

Name of the Power Station :

BONGAIGAON THERMAL POWER PROJECT

S.No.	Month	Particulars	Unit	Oct-18	
				LDO	HFO
				Col. 1	Col. 2
1		Opening Stock of Oil	KL	1646.50	0
2		Value of Opening Stock	Rs.	83590432.40	0.00
				0	0.00
3		Quantity of Oil supplied by Oil Company	KL	460.00	0
					0
4		Adjustment (+/-) in quantity supplied by Oil Company	KL	0.00	0
5		Qty. of Oil supplied by Oil Company (3+4)	KL	460.00	0
					0
6		Normative Transit & Handling Losses	KL	0.00	0
					0
7		Net Oil Supplied ( 5 - 6 )	KL	460.00	0
					0
8		Amount charged by the Oil Company	Rs.	27628702.69	0
9		Adjustment (+/-) in amount charged by Oil Company	Rs.	0.00	0
10		Total amount charged (8+9)	Rs.	27628702.69	0
11		Transportation charges by rail/ship/road transport	Rs.		0
12		Adjustment (+/-) in amount charged by Railways/Transport Company.	Rs.		0.00
					0.00
13		Demurrage charges, if any	Rs.		0.00
14		Total Transportation Charges (11+/- 12 - 13)	Rs.	0.00	0
15		Others	Rs.	0.00	0.00
16		Total amount charged for Oil supplied including Transportation (10+14+15)	Rs.	27628702.69	0
17		Weighted average GCV of Oil	Kcal/Ltr		0
18		Quantity of Oil at the station for the month(1+7)	KL	2105.50	0
					0
19		Total amount charged for Oil ( 2 + 16 )	Rs.	111219135.09	0
					0
20		Landed cost of Oil (19/18)	Rs./ KL	52798.07	0
					0
21		Quantity of Oil consumed	KL	222.60	0
					0
22		Value of Oil consumed (20*21)	Rs.	11752850.45	0
					0
23		Closing Stock of Oil (18 - 21)	KL	1883.90	0
					0
24		Value of closing stock (19 - 22)	Rs.	99466284.64	0

Details of information in respect of fuel for computation of energy charges

Station : BONGAIGAON THERMAL POWER PROJECT

S.No.	Particulars	Unit	Oct-18	
			LDC	HFO
			Col.1	Col.2
1	Landed cost of Oil as at Sl.No. 20	Rs./KL	52798.07	0.00
2	Usage Quantity for the Month	KL	222.60	0.00
3	Weighted average rate ((R1*Q1)+(R2*Q2)+(R3*Q3))/(Q1+Q2+Q3)	Rs./KL	52798.07	
4	Weighted average GCV of Oil	Kcal/KL	9420.00	

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For C.K. PRUSTY & ASSOCIATES  
Chartered Accountants  
Firm Reg. No. 323220E

CA G.K. PRUSTY, FCA  
Partner  
M. No. - 057318

Melo  
अजय साहु  
AJAY SAHOO  
Dy. General Manager (Fin) SSC  
एनटीपीसी लिमिटेड / टाचर का  
NTPC Limited / Taicher Ka

Name of the Company :

NTPC Limited

FORM 15 - OIL

Name of the Power Station :

BONGAIGAON THERMAL POWER PROJECT

S.No.	Month	Particulars	Unit	Nov-18	
				LDO	HFO
				Col. 1	Col. 2
1		Opening Stock of Oil	KL	1883.90	0
2		Value of Opening Stock	Rs.	99466284.64	0.00
3		Quantity of Oil supplied by Oil Company	KL	260.00	0
4		Adjustment (+/-) in quantity supplied by Oil Company	KL	0.00	0
5		Qty. of Oil supplied by Oil Company (3+4)	KL	260.00	0
6		Normative Transit & Handling Losses	KL	0.00	0
7		Net Oil Supplied ( 5 - 6 )	KL	260.00	0
8		Amount charged by the Oil Company	Rs.	14525588.00	0
9		Adjustment (+/-) in amount charged by Oil Company	Rs.	0.00	0
10		Total amount charged (8+9)	Rs.	14525588.00	0
11		Transportation charges by rail/ship/road transport	Rs.		0
12		Adjustment (+/-) in amount charged by Railways/Transport Company.	Rs.		0.00
13		Demurrage charges, if any	Rs.		0.00
14		Total Transportation Charges (11+/- 12 - 13)	Rs.	0.00	0
15		Others	Rs.	0.00	0.00
16		Total amount charged for Oil supplied including Transportation (10+14+15)	Rs.	14525588.00	0
17		Weighted average GCV of Oil	Kcal/Ltr		0
18		Quantity of Oil at the station for the month(1+7)	KL	2143.90	0
19		Total amount charged for Oil ( 2 + 16 )	Rs.	113991872.64	0
20		Landed cost of Oil (19/18)	Rs./ KL	53170.33	0
21		Quantity of Oil consumed	KL	87.63	0
22		Value of Oil consumed (20*21)	Rs.	4659316.11	0
23		Closing Stock of Oil (18 - 21)	KL	2056.27	0
24		Value of closing stock (19 - 22 )	Rs.	109332556.53	0

Details of information in respect of fuel for computation of energy charges

Station : BONGAIGAON THERMAL POWER PROJECT

S.No.	Particulars	Unit	Nov-18	
			LDO	HFO
			Col.1	Col.2
1	Landed cost of Oil as at Sl.No. 20	Rs./KL	53170.33	0.00
2	Usage Quantity for the Month	KL	87.63	0.00
3	Weighted average rate ((R1*Q1)+(R2*Q2)+(R3*Q3))/(Q1+Q2+Q3)	Rs./KL	53170.33	
4	Weighted average GCV of Oil	Kcal/KL	9417.00	

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For C.K. PRUSTY & ASSOCIATES  
Chartered Accountants  
Firm Reg. No. 323220E

CA C.K. PRUSTY, FCA

अजय साहु

AJAY SAHOO

उप महाप्रबंधक (वि. ए. एस. सी. / ई.)  
Dy. General Manager (Fin) SSC  
एनटीपीसी लिमिटेड/तालचेर क  
NTPC Limited / Talcher Kar

Name of the Company :

NTPC Limited

FORM 15 - OIL

Name of the Power Station :

BONGAIGAON THERMAL POWER PROJECT

S.No.	Month	Particulars	Unit	Dec-18	
				LDO Col. 1	HFO Col. 2
1		Opening Stock of Oil	KL	2056.27	0
2		Value of Opening Stock	Rs.	109332556.53	0.00
3		Quantity of Oil supplied by Oil Company	KL	820.00	0
4		Adjustment (+/-) in quantity supplied by Oil Company	KL	0.00	0
5		Qty. of Oil supplied by Oil Company (3+4)	KL	820.00	0
6		Normative Transit & Handling Losses	KL	0.00	0
7		Net Oil Supplied ( 5 - 6 )	KL	820.00	0
8		Amount charged by the Oil Company	Rs.	45601360	0
9		Adjustment (+/-) in amount charged by Oil Company	Rs.	0.00	0
10		Total amount charged (8+9)	Rs.	45601360.00	0
11		Transportation charges by rail/ship/road transport	Rs.		0
12		Adjustment (+/-) in amount charged by Railways/Transport Company.	Rs.		0
13		Demurrage charges, if any	Rs.		0.00
14		Total Transportation Charges (11+/- 12 - 13)	Rs.	0.00	0.00
15		Others	Rs.	0.00	0
16		Total amount charged for Oil supplied including Transportation (10+14+15)	Rs.	45601360.00	0.00
17		Weighted average GCV of Oil	Kcal/Ltr		0
18		Quantity of Oil at the station for the month(1+7)	KL	2876.27	0
19		Total amount charged for Oil ( 2 + 16 )	Rs.	154933916.53	0
20		Landed cost of Oil (19/18)	Rs./ KL	53866.26	0
21		Quantity of Oil consumed	KL	84.80	0
22		Value of Oil consumed (20*21)	Rs.	4567859.11	0
23		Closing Stock of Oil (18 - 21)	KL	2791.47	0
24		Value of closing stock (19 - 22 )	Rs.	150366057.42	0

Details of information in respect of fuel for computation of energy charges

Station : BONGAIGAON THERMAL POWER PROJECT

S.No.	Particulars	Unit	Dec-18	
			LDO Col.1	HFO Col.2
1	Landed cost of Oil as at Sl.No. 20	Rs./KL	53866.26	0.00
2	Usage Quantity for the Month	KL	84.80	0.00
3	Weighted average rate $((R1*Q1)+(R2*Q2)+(R3*Q3))/(Q1+Q2+Q3)$	Rs./KL	53866.26	
4	Weighted average GCV of Oil	Kcal/KL	9422.00	

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For C.K. PRUSTY & ASSOCIATES  
Chartered Accountants  
Firm Reg. No. 323220E

CA C.K. PRUSTY FCA

अजय साहू  
AJAY SAHOO  
ज्य. महाप्रबंधक (वित्त) एस.एस.  
Dy. General Manager (Finance)  
एनटीपीसी लिमिटेड / तालुका  
NTPC Limited / Taluk

Name of the Company: **NTPC Limited**  
 Name of the Power Station: **Bongaiason Thermal power Station(3x250 MW)**

**Form-15B**  
**ADDITIONAL FORM**  
**Computation of Energy Charges**

**Computation of Energy Charges**

- 1 Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) (REC)<sub>n</sub> = (Q<sub>n</sub>) X P<sub>n</sub> 2.664
- 2 Heat Contribution from SFO / Alternate Fuel (H<sub>2</sub>) = (Qs)<sub>n</sub> X (GCV)<sub>s</sub> 4.710
- 3 Heat Contribution from coal (H<sub>3</sub>) = GHR- H<sub>2</sub> 2396.05
- 4 Specific Primary Fuel Consumption (QP)<sub>n</sub> = H<sub>3</sub> / (GCV)<sub>p</sub> 0.541
- 5 Rate of Energy charge from Primary Fuel (p/kwh) (REC)<sub>p</sub> 294.678
- 6 Rate of Energy charge from Lime Stone(p/kwh) 9.556
- 7 Rate of Energy charge ex-bus (p/kwh) = ((REC)<sub>n</sub> + (REC)<sub>p</sub>) / (1-(AUX)) 349.151

	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366	365	365	365	366
Sp. Oil consumption ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption %	9.00	9.00	10.03	12.10	12.10
Heat Rate Kcal/Kwh	2,400.76	2,400.76	2,400.76	2,400.76	2,400.76
Sp Limestone Consumption Kg/kwh			0.0478	0.0478	0.0478

**Computation of Variable Charges**

Variable Charge (Coal) p/kwh	323.822	323.822	327.543	335.249	335.249
Variable Charge (Oil) p/kwh	2.927	2.927	2.961	3.031	3.031
Variable Charge (Lime stone) p/kwh	0.000	0.000	10.622	10.872	10.872
<b>Total</b> p/kwh	<b>326.750</b>	<b>326.750</b>	<b>341.126</b>	<b>349.151</b>	<b>349.151</b>

**Price of fuel from Form-15/15A**

Coal Cost (Rs./MT)	5446.02	5446.02	5446.02	5446.02	5446.02
Oil Cost (Rs./KL)	53278.22	53278.22	53278.22	53278.22	53278.22

**Computation of Fuel Expenses for Calculation of IWC:**

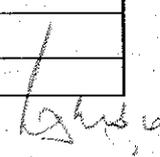
ESO in a year (MUs)	5095.82	5081.90	5024.16	4908.69	4922.135
ESO for 50 days (MUs)	696.150	696.150	688.24	672.42	672.423
Cost of coal for 45 Days (Rs. Lakh)	22542.88	22542.88	22542.88	22542.88	22542.88
Cost of oil for 2 months (Rs. Lakh)	248.62	247.94	247.94	247.94	248.62
Cost of lime stone for 50 days (Rs. Lakh)	0.00	0.00	731.03	731.03	731.03
Energy Expenses for 45 days (Rs. Lakh)	20472.00	20472.00	21129.93	21129.93	21129.93

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	5444.45	5472.80	5412.88	5446.02
Wtd. Avg. GCV of Coal as received KCal/Kg	4651.80	4599.10	4288.90	4513.20
<b>Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg</b>				
Sec. Oil				4428.20
Wtd. Avg. Price of Secondary Fuel Rs/KL	53866.26	53170.33	52798.07	53278.22
Wtd. Avg. GCV of Secondary Fuel kCal/L	9422.00	9417.00	9420.00	9419.67
Lime Stone Rs./MT	2000.00	2000.00	2000.00	2000.00

Name of the Petitioner  
Name of the Generating StationNTPC Ltd  
Bongaiaon Thermal power Station(3x250 MW)Statement of Capital cost

(Amount in Rs. Lakh)

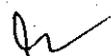
S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	692117.9	39066.91	653050.99
	b) Amount of IDC in A(a) above	167003.67		
	c) Amount of FC in A(a) above	0		
	d) Amount of FERV in A(a) above	21531.87		
	e) Amount of Hedging Cost in A(a) above	0		
	f) Amount of IEDC in A(a) above	64679.82		
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

  
 (Petitioner)

Name of the Petitioner  
Name of the Generating StationNTPC Ltd  
Bongaiaagon Thermal power Station(3x250 MW)Statement of Capital Woks in Progress

(Amount in Rs. Lakh)

S. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	105771.23	10895.06	94876.17
	b) Amount of IDC in A(a) above	31119.55		
	c) Amount of FC in A(a) above	0		
	d) Amount of FERV in A(a) above	3811.13		
	e) Amount of Hedging Cost in A(a) above	0		
	f) Amount of IEDC in A(a) above	6777.05		
	E) Amount of construction store in A(a) above	4399.76		
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			



(Petitioner)

## Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Bongaigon Thermal power Station(3x250 MW)							
		(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8		
1	Gross Normative loan – Opening	439,102.31	439,109.77	443,071.77	449,133.77	479,597.77	509,424.77		
2	Cumulative repayment of Normative loan up to previous year	49,234.76	49,459.81	81,218.98	113,339.01	146,774.01	182,379.53		
3	Net Normative loan – Opening	389,867.55	389,649.96	361,852.79	335,794.76	332,823.76	327,045.24		
4	Add: Increase due to addition during the year / period	7.46	3,962.00	6,062.00	30,464.00	29,827.00	1,750.00		
5	Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00		
6	Less: Decrease due to reversal during the year / period								
7	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00		
8	Less: Repayment of Loan	519.72	31,759.17	32,120.04	33,435.00	35,605.52	36,742.31		
9	Net Normative loan - Closing	389,649.96	361,852.79	335,794.76	332,823.76	327,045.24	292,052.93		
10	Average Normative loan	389,906.09	375,751.38	348,823.78	334,309.26	329,934.50	309,549.09		
11	Weighted average rate of interest	7.843	7.9443	7.9375	7.9326	7.9697	7.9652		
12	Interest on Loan	30579.67	29850.91	27687.88	26519.55	26294.83	24656.32		

(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :		NTPC Limited							
Name of the Power Station :		Bongaiaogon Thermal power Station(3x250 MW)							
		(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8		
1	Cost of Coal/Lignite	26,508.62	22542.88	22542.88	22542.88	22542.88	22542.88		
2	Cost of Main Secondary Fuel Oil	239.81	248.62	247.94	247.94	247.94	248.62		
2a	Cost of Lime stone		0.00	0.00	731.03	731.03	731.03		
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	1,906.88	2574.01	2669.16	2767.14	2870.06	2975.89		
6	Maintenance Spares	4,576.50	6177.62	6405.98	6641.14	6888.14	7142.13		
7	Receivables	48,792.90	37229.04	37248.35	38356.50	39063.54	39275.97		
8	Total Working Capital	82024.70	68772.17	69114.32	71286.64	72343.60	72916.53		
9	Rate of Interest	12.2000	12.0500	12.0500	12.0500	12.0500	12.0500		
10	Interest on Working Capital	10007.01	8287.05	8328.28	8590.04	8717.40	8786.44		

*Ch*

*Ch*

Petitioner

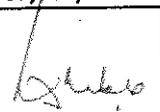
## Statement of Liability Flow

Name of the Company : NTPC Ltd  
Name of the Power Station : Bongaiaon Thermal power Station(3x250 MW)

Liability against Gross Block & CWIP as on COD of Unit #3 26.03.2019

Amount in Rs

	Description	Liability related to Gross Block upto Unit-3	Liability related to CWIP	Total Liability
1	S Cred - Domestic	29,716,575	44,746,422.75	15,029,848.07
2	Sundry Cred-Foreign	-	32,099.70	32,099.70
3	Retention Payment	455,004,322	152,311,482.28	607,315,804.62
4	LD Retention Payment	7,535,955	2,782,530.00	10,318,484.60
5	Contractors Control A/c -Indigenous (Capex)	108,169,825	30,865,786.73	77,304,038.51
6	Creditors-Forgn-Cape	-	11,757.00	11,757.00
7	Trial Operation lliability - Capex	691,004,618	118,309,885.40	809,314,503.45
8	PG Test Liability- Capex	1,253,977,188	218,898,087.58	1,472,875,275.77
9	Sundry Creditors-PVC (Capex)	127,599,268	100,659,406.00	228,258,674.00
10	Dispatch payment Liability- Capex	715,757	23,887.06	739,643.62
11	Receipt Payment Liability-Capex	6,355,352	2,188,206.54	8,543,558.31
12	Security Deposit-Cash	589,933,313	125,440,448.98	715,373,761.68
13	Stale Cheques-CAPEX	-	-	-
14	Contractors Control A/c (Capex)	25,734,868	55,979,354.00	81,714,222.00
15	Provision for R&R/ Environmental Aspects	107,125,857	-	107,125,857.24
16	Provision for Arbitration Cases	358,412,542	-	358,412,541.63
17	Prov for R&R/ Envir Aspects & ot-relating to proje	99,000,000	-	99,000,000.00
18	GR/ IR Clearing- CAPEX	25,160,816	12,205,197.70	37,366,013.23
19	SR/ IR Clearing- CAPEX	79,250,495	175,898,958.19	255,149,453.22
20	Freight Clg/Prov Frght-O&M	1,318,490	943.68	1,319,433.27
21	Freight Clg/Prov Frght-Capex	109,403	2,439,126.01	2,548,529.38
		3,906,691,493	980,997,806.74	4,887,689,299.90

  
Petitioner

**Summary of issue involved in the petition**

Name of the Company :		NTPC Limited				
Name of the Power Station :		Bongaigaon Thermal power Station(3x250 MW)				
1	Petitioner:	NTPC Limited				
2	Subject	Petition Under Section 62, and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Bongaigaon Thermal Power Station (750 MW) for the period from 01.04.2019 to 31.03.2024				
3		<p>i) Approve tariff of Bongaigaon Thermal Power Station (3X250 MW) for the tariff period 01.04.2019 to 31.03.2024.</p> <p>ii) Allow the recovery of filing fees as &amp; when paid to the Hon'ble Commission and publication expenses from the beneficiaries.</p> <p>iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.</p> <p>iv) Consider station heat rate based on design heat rate with applicable operating margin.</p> <p>v) Allow additional APC of 3.1016% and additional O&amp;M expenses for FGD.</p> <p>vi) Allow the expenditure on design change/modification of FGD and relaxed operating norms on above account.</p> <p>vii) Relaxation in cut off date for installation of FGD.</p> <p>viii) Pass any other order as it may deem fit in the circumstances mentioned above.</p>				
4	Respondents					
	Name of Respondents					
	1	Assam Power Distribution Company Ltd Bijulee Bhawan, Paltan Bazar, Guwahati - 782 001				
	2	Meghalaya Energy Corporation Ltd Short Round Road, Shillong - 793 001				
	3	Department of Power Government of Arunachal Pradesh Itanagar				
	4	Power and Electricity Department Govt. of Mizoram Aizawal 796001				
	5	Manipur State Power Distribution Company Ltd. Khwai Bazar, Keishampat Imphal 795001				
	6	Department of Power Govt of Nagaland, Kohima				
	7	Tripura State Electricity Corporation Limited Bidyut Bhawan, North Banamalipur Agartala - 700 001				
5	Project Scope					
	Cost					
	Commissioning	26.03.2019				
	Claim					
		2019-20	2020-21	2021-22	2022-23	2023-24
	AFCRs Lakhs	136290.52	136074.83	139129.09	144863.79	146971.93
	Capital cost(Opening) Rs Lakhs	627299.67	632959.67	641619.67	685139.67	727749.67
	Initial spare	NA				
	NAPAF (Gen)	85%				
	Any Specific	Relaxation in HR and relaxation in operating parameters due to installation of FGD.				

PETITIONER



# भारत का राजपत्र

## The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

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NEW DELHI, TUESDAY, DECEMBER 8, 2015/AGRAHAYANA 17, 1937

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 7 दिसम्बर, 2015

**का.आ. 3305(अ).**— केंद्रीय सरकार, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए निम्नलिखित नियम बनाती है, अर्थात् :—

1.(1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) संशोधन नियम, 2015 है।

(2) ये उनके राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. पर्यावरण (संरक्षण) नियम, 1986 की अनुसूची 1 में,—

(क) क्रम सं. 5 और उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित क्रम सं. और प्रविष्टियां अंतःस्थापित की जाएंगी, अर्थात् :—

क्रम सं.	उद्योग	मापदंड	मानक
1	2	3	4
5क	ताप विद्युत संयंत्र (जल उपभोग सीमा)	जल उपभोग	1. एक बार शीतलन (ओटीसी) के माध्यम से सभी संयंत्र शीतलन टावरों (सीटी) को प्रतिष्ठापित करेंगे और अधिसूचना की तारीख से दो वर्ष की अवधि के भीतर अधिकतम 3.5m <sup>3</sup> /MWh के विनिर्दिष्ट जल उपभोग को हासिल करेंगे।

			<p>II. सभी विद्यमान सीटी-आधारित संयंत्र 3.5m<sup>3</sup>/MWh इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर अधिकतम 3.5m<sup>3</sup>/MWh तक के विनिर्दिष्ट जल उपभोग को कम करेंगे।</p> <p>III. जनवरी, 2017 के पश्चात् प्रतिष्ठापित किए जाने वाले नए संयंत्र अधिकतम 2.5 m<sup>3</sup>/MWh तक के विनिर्दिष्ट जल उपभोग को पूरा करेंगे और शून्य जल दुर्व्यय को हासिल करेंगे।</p>
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(ख) क्रम सं. 25 और उससे संबंधित प्रविष्टियों के पश्चात् निम्नलिखित क्रम सं. और प्रविष्टियां रखी जाएंगी, अर्थात् :—

क्रम सं.	उद्योग	मापदंड	मानक
1	2	3	4
		विवक्त पदार्थ	100 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		नाइट्रोजन के आक्साइड (NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		पारा (Hg)	0.03 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		1 जनवरी, 2003 के पश्चात् 31 दिसंबर, 2016* तक प्रतिष्ठापित टीपीपी (इकाईयां)	
		विवक्त पदार्थ	50 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		नाइट्रोजन के आक्साइड (NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		पारा (Hg)	0.03 mg/Nm <sup>3</sup>
		1 जनवरी, 2017** से प्रतिष्ठापित टीपीपी (इकाईयां)	
		विवक्त पदार्थ	30 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	100 mg/Nm <sup>3</sup>
		नाइट्रोजन के आक्साइड	100 mg/Nm <sup>3</sup>

			<p>II. सभी विद्यमान सीटी-आधारित संयंत्र 3.5m<sup>3</sup>/MWh इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर अधिकतम 3.5m<sup>3</sup>/MWh तक के विनिर्दिष्ट जल उपभोग को कम करेंगे।</p> <p>III. जनवरी, 2017 के पश्चात् प्रतिष्ठापित किए जाने वाले नए संयंत्र अधिकतम 2.5 m<sup>3</sup>/MWh तक के विनिर्दिष्ट जल उपभोग को पूरा करेंगे और शून्य जल दुर्व्यय को हासिल करेंगे।</p>
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(ख) क्रम सं. 25 और उससे संबंधित प्रविष्टियों के पश्चात् निम्नलिखित क्रम सं. और प्रविष्टियां रखी जाएंगी, अर्थात्:—

क्रम सं.	उद्योग	मापदंड	मानक
1	2	3	4
		विवक्त पदार्थ	100 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		नाइट्रोजन के आक्साइड (NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		पारा (Hg)	0.03 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		1 जनवरी, 2003 के पश्चात् 31 दिसंबर, 2016* तक प्रतिष्ठापित टीपीपी (इकाईयां)	
		विवक्त पदार्थ	50 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm <sup>3</sup> (500 मेगावाट और उससे अधिक क्षमता की इकाईयां)
		नाइट्रोजन के आक्साइड (NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		पारा (Hg)	0.03 mg/Nm <sup>3</sup>
		1 जनवरी, 2017** से प्रतिष्ठापित टीपीपी (इकाईयां)	
		विवक्त पदार्थ	30 mg/Nm <sup>3</sup>
		सल्फर डायोक्साइड (SO <sub>2</sub> )	100 mg/Nm <sup>3</sup>
		नाइट्रोजन के आक्साइड	100 mg/Nm <sup>3</sup>

		(NOx)	
		पारा ( Hg)	0.03 mg/Nm <sup>3</sup>

\* टीपीपी (इकाईयां) इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर परिसीमाओं को पूरा करेंगी।

\*\* इसके अंतर्गत सभी टीपीपी (इकाईयां) हैं, जिन्हें पर्यावरणीय निकासी प्रदान की गई है और संनिर्माण के अधीन है।

[फा. सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

डा. राशिद हसन, सलाहकार

**टिप्पण :-** मूल नियम भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (ii) में सं. का.आ. 844(अ) 19 नवंबर, 1986 द्वारा प्रकाशित किए गए थे और उनका पश्चातवर्ती का.आ. 433(अ) तारीख 18 अप्रैल, 1987 ; सा.का.नि 176(अ) तारीख 2 अप्रैल, 1996; सा.का.नि. 97 (अ), तारीख 18 फरवरी, 2009 ; सा.का.नि 149(अ) तारीख 4 मार्च, 2009 ; सा.का.नि. 543(अ) तारीख 22 जुलाई, 2009 ; सा.का.नि. 739(अ) तारीख 9 सितम्बर, 2010 ; सा.का.नि. 809(अ) तारीख 4 अक्टूबर, 2010, सा.का.नि. 215(अ) तारीख 15 मार्च, 2011 ; सा.का.नि. 221(अ) तारीख 18 मार्च, 2011 ; सा.का.नि. 354(अ) तारीख 2 मई, 2011 ; सा.का.नि. 424(अ) तारीख 1 जून, 2011 ; सा.का.नि. 446(अ) तारीख 13 जून, 2011 ; सा.का.नि. 152(अ) तारीख 16 मार्च, 2012 ; सा.का.नि. 266(अ) तारीख 30 मार्च, 2012 ; सा.का.नि. 277(अ) तारीख 31 मार्च, 2012; सा.का.नि. 820(अ) तारीख 9 नवम्बर, 2012 ; सा.का.नि. 176(अ) तारीख 18 मार्च, 2013 ; सा.का.नि. 535(अ) तारीख 7 अगस्त, 2013 ; सा.का.नि. 771(अ) तारीख 11 दिसम्बर, 2013 ; सा.का.नि. 2(अ) तारीख 2 जनवरी, 2014 ; सा.का.नि. 229(अ) तारीख 28 मार्च, 2014 ; सा.का.नि. 232(अ) तारीख 31 मार्च, 2014 ; सा.का.नि. 325(अ) तारीख 7 मई, 2014, सा.का.नि. 612(अ) तारीख 25 अगस्त, 2014 और अन्तिम संशोधन सा.का.नि. 789(अ) तारीख 11 नवम्बर, 2014 किया गया था।

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 7th December, 2015

**S.O. 3305(E).**— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sr. No.	Industry	Parameter	Standards
1	2	3	4
“5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m <sup>3</sup> /MWh within a period

			of two years from the date of publication of this notification.
			II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m <sup>3</sup> /MWh within a period of two years from the date of publication of this notification.
			III. New plants to be installed after 1 <sup>st</sup> January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m <sup>3</sup> /MWh and achieve zero waste water discharged”;

(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25.	Thermal Power Plant	TPPs ( units) installed before 31 <sup>st</sup> December, 2003*	
		Particulate Matter	100 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NO <sub>x</sub> )	600 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		TPPs ( units) installed after 1 <sup>st</sup> January,2003, upto 31 <sup>st</sup> December, 2016*	
		Particulate Matter	50 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup>
		TPPs ( units) to be installed from 1 <sup>st</sup> January, 2017**	
		Particulate Matter	30 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	100 mg/Nm <sup>3</sup>
		Oxides of Nitrogen (NO <sub>x</sub> )	100 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup>

\*TPPs (units) shall meet the limits within two years from date of publication of this notification.

\*\*Includes all the TPPs (units) which have been accorded environmental clearance and are under construction”.

[F. No. Q-15017/40/2007-CPW]

Dr. RASHID HASAN, Advisor

**Note:** - The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) *vide* number S.O. 844(E), dated the 19<sup>th</sup> November, 1986 and subsequently amended *vide* the following notifications:—

S.O. 433(E), dated 18<sup>th</sup> April 1987; G.S.R. 176(E) dated 2<sup>nd</sup> April, 1996; G.S.R. 97(E), dated the 18<sup>th</sup> February, 2009; G.S.R. 149(E), dated the 4<sup>th</sup> March, 2009; G.S.R. 543(E), dated 22<sup>nd</sup> July, 2009; G.S.R. 739(E), dated the 9<sup>th</sup> September, 2010; G.S.R. 809(E), dated, the 4<sup>th</sup> October, 2010; G.S.R. 215(E), dated the 15<sup>th</sup> March, 2011; G.S.R. 221(E), dated the 18<sup>th</sup> March, 2011; G.S.R. 354(E), dated the 2<sup>nd</sup> May, 2011; G.S.R. 424(E), dated the 1<sup>st</sup> June, 2011; G.S.R. 446(E), dated the 13<sup>th</sup> June, 2011; G.S.R. 152(E), dated the 16<sup>th</sup> March, 2012; G.S.R. 266(E), dated the 30<sup>th</sup> March, 2012; and G.S.R. 277(E), dated the 31<sup>st</sup> March, 2012; and G.S.R. 820(E), dated the 9<sup>th</sup> November, 2012; G.S.R. 176(E), dated the 18<sup>th</sup> March, 2013; G.S.R. 535(E), dated the 7<sup>th</sup> August, 2013; G.S.R. 771(E), dated the 11<sup>th</sup> December, 2013; G.S.R. 2(E), dated the 2<sup>nd</sup> January, 2014; G.S.R. 229(E), dated the 28<sup>th</sup> March, 2014; G.S.R. 232(E), dated the 31<sup>st</sup> March, 2014; G.S.R. 325(E), dated the 07<sup>th</sup> May, 2014, G.S.R. 612(E), dated the 25<sup>th</sup> August, 2014 and lastly amended *vide* notification G.S.R. 789(E), dated 11<sup>th</sup> November, 2014.

RESPECTED SIR,

WE WELCOME YOU TO

No. 10/1/2018-S. Th.  
Government of India  
Ministry of Power

Shram Shakti Bhawan, Hari Marg  
New Delhi dated 22.04.2019



OFFICE MEMORANDUM

Sub.- Phasing Plan for Implementation of New Environmental Norms for Bongaigaon and Bakreswar TPS, WBPUCL - reg.

The undersigned is directed to refer to the phasing plan for implementation of new environment norms submitted vide Ministry of Power letter No. FU-1/2017 - IPC dated 13.10.2017 to MoEF&CC, as finalised by CEA in consultation with stakeholders.

2. NTPC vide letter dated 05.06.2018 and 18.03.2019 (copies enclosed) has informed as follows
  - i. As the FGD plant of Bongaigaon was already awarded along with Boiler package in 2008 and was under implementation in 2017, the same was not included in the list earlier given to MoP for seeking relaxation in time line for implementation of FGD to meet new environmental norms.
  - ii. Bongaigaon Unit-1 & 2 of NTPC Ltd are commissioned and under commercial operation and Unit-3 is also ready and expected to be operational during Q3 of FY19.
  - iii. At the time of grant of environment clearance, there were no emission norms for SOx and the main objective of MOEF low emission norms regarding FGD was to maintain the ambient air quality. The wet lime stone based FGD technology was not available in India then, and this was the first FGD plant expected to be commissioned in India. Therefore, the EPC contractor, BHEL had to make a technical tie-up with M/s Ducas of USA for FGD plant. However due to difficulty faced during project execution, many contractors including M/s Ducas left the site since then and there has been delay in completion of FGD work. The new environmental norms for SOx are more stringent for what Bongaigaon FGD was designed and shelf life of many supplied equipment has expired hence NTPC has informed that it will take additional time for commissioning of FGD units.
  - iv. NTPC has informed that the ambient air quality at Bongaigaon Thermal Power Project is presently being maintained well below the prescribed ambient air quality norms primarily due to use of low Sulphur PCI/CCI coal.
  - v. North Eastern Regional Power Committee (NERPC) vide its letter dated 22.02.2019 has agreed the tentative dates for planned shutdown of Bongaigaon TPS for implementation of FGD as below:
 

a. Unit#1	Dec. 2021
b. Unit#2	Sept. 2022
c. Unit#3	Dec. 2022
  - vi. It is seen that NTPC's Bongaigaon TPP (3x250 MW) is not 'affected' in the units monitored by Hon Supreme Court, as the unit capacity is less than 500 MW and is not located in areas either critically polluted or having population density > 400/km<sup>2</sup>.

(2/2)

vii. NTPC has requested MoP/MoEF&CC for extending the implementation plan for FGD system at NTPC Bongaigaon (3x250 MW) for its all 03 units till Dec. 2022 and direct CPCB to withdraw the closure notice issued to Bongaigaon TPP

4. For Bakreswar TPS (5x210 MW) of WBPDCI CEA vide letter dated 14.03.2019 (copy enclosed) has informed as follows:

- i. Earlier during preparation of phasing plan for implementation of new Environmental Norms, Bakreswar TPS (5x210 MW) of WBPDCI has informed Eastern Region Power Committee (ERPC) that its units were compliant to new Environmental Norms.
- ii. Accordingly, these units were not included in the phasing plan prepared by CEA.
- iii. Later after carrying out suitable studies Bakreswar TPS wants to augment ESPs/Install FGDs at its units to meet the new environmental norms.
- iv. On being approached by WBPDCI for inclusion of these units under phasing plan, ERPC vide letter dated 7.3.2019 (copy enclosed) has recommended inclusion of Bakreswar TPS in phasing plan for implementation of new Environmental Norms. The following phasing plan has been agreed upon by ERPC.
  - a. FGD phasing plan U-1 to 5 - 30.06.2022
  - b. ESP Phasing Plan for the Units No. 4 & 5 - 31.12.2020. As per WBPDCI U-1 to 3 are meeting the PM norms

5. It is seen that both NTPC's Bongaigaon (3x250 MW) Bakreswar TPS (5x210 MW) of WBPDCI is not 'affected' in the 105 units monitored by Hon Supreme Court, as the unit capacity is less than 500 MW and is not located in areas either critically polluted or having population density > 400/km<sup>2</sup>

6. MoEF&CC is requested to consider inclusion of following timelines in respect of these units in the phasing plan.

Bakreswar TPS (5x210 MW):

- a. FGD phasing plan U-1 to 5 - 30.06.2022.
- b. ESP Phasing Plan for the Units No. 4 & 5 - 31.12.2020. As per WBPDCI U-1 to 3 are meeting the PM norms.

NTPC Bongaigaon (3x250MW) FGD phasing plan: 30.12.2022 for its all 03 units

7. This issues with the approval of Secretary (Power).

Enclosed, as stated



(S. Majumdar)  
Under Secretary to the Govt. of India  
Tel: 2335 6938

Ministry of Environment, Forest & Climate Change,  
(Sh. C. K Mishra, Secretary)  
Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi.

**POLICY OF MINISTRY OF POWER**

**FOR**

**BIOMASS UTILIZATION FOR POWER GENERATION**

**THROUGH CO- FIRING IN PULVERIZED COAL**

**FIRED BOILERS**

## **Biomass Utilisation for Power Generation through Co-firing in Coal Based Power Plants**

### **1. Introduction**

Stubble burning has been cited as a major cause of recent smog in north-west India. Stubble burning is deliberate setting fire of the straw stubble that remains after harvesting of paddy and other crops. During the months of October and November of each year, farmers in north-west India burn an estimated 30-40 million tonnes of crop waste from their paddy fields after harvesting. The primary reasons for stubble burning are; (a) reduce the cost of clearing the field for next crop, (b) reduce the turnaround time between harvesting and sowing for next (winter) crop and (c) lack of other alternatives, viz. availability of appropriate agricultural implements, viz., implements to take out the stubble and "Happy Seeders" for zero tilling sowing etc.

1.1. Various options for safely disposing such bio-mass are (i) setting up power plants exclusively based on bio-mass, (ii) co-firing of pellets made out of bio-mass in the coal based thermal plants, (iii) *in-situ* incorporation of bio-mass into the soil using appropriate agricultural implements or composting and (iv) manufacturing of various products such as Ethanol, Bio CNG and Board etc.

### **2. Biomass co-firing in coal based power plants**

The estimated 30-40 million metric tonnes of paddy straw that remains un-utilised and burnt in north-west India has potential to generate about 6000-8000 MW and 45000 million units of electricity annually, by co-firing it along with coal in existing coal fired power plants. Biomass co-firing has a potential to create a market for large scale consumption of agro residue and convert it into electricity in eco-friendly and cost effective manner while mitigating problem of air quality deterioration. Market mechanism for agro residue utilisation will also enable additional income to farmers.

2.1 The existing power plant infrastructure cannot directly use raw agro residue bio-mass in a pulverised coal fired type boiler and it is required to be processed into dense bio-mass in the form of pellets. The densification of biomass in the form of pellets also reduces its transportation cost, which is a major component in overall fuel price. Promoting agro-residue processing capacity into pellets for power sector shall also create employment opportunities and develop entrepreneurship.

2.2 Biomass co-firing is a well proven technology. With increasing environmental awareness, power plants all over the world has adopted, biomass co-firing as a strategy to combat pollution. According to open source data, 230 plants across globe, majority located in European and American countries, have experience of biomass co-firing. UNFCCC recognizes biomass co-firing as a carbon neutral technology for mitigation of carbon emission from coal based power plants.



### **3. Status of Biomass co-firing in India**

NTPC has successfully demonstrated the co-firing of 7% blend of biomass pellets with coal in its Dadri power plant. This can be replicated in other coal fired power plants too. The blend of coal and pellets can safely be pulverized in power plants having bowl mills/vertical roller mills/beater mills. However, this method is not suitable for power plant having ball and tube type of mills due to higher risk of fire hazard. Approximately, 2.5 to 3.0 lakh tonnes of Biomass pellets are required for 7% blending in a thermal power plant of 1000MW capacity.

### **4. Benefits of using biomass pellets co-firing in Coal based power plants**

- a) Eliminate/minimize burning of agro-residue and create economic value of agro residue by promoting its use as fuel in power plants in co-firing mode.
- b) Improve the air quality index while creating additional income for farmers.
- c) Encourage the establishment of decentralised pellets manufacturing units and generate employment opportunities.

### **5. Biomass Utilisation for Power Generation through Co-firing in Coal based power plants.**

Therefore, in order to promote use of the bio-mass pellets, all the Power plants/Utilities are hereby advised as follows:

- a) All fluidised bed and pulverised coal units( coal based thermal power plants) except those having ball and tube mill, of power generation utilities, public or private, located in India, shall endeavour to use 5-10% blend of biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc.
- b) CEA shall develop/issue Specifications for the pellets. CEA will also provide technical assistance/advise to Utilities on how to use bio-mass pellets for blending with coal in coal based thermal power plants.
- c) The Appropriate Commission will determine the compensation (for plants other than those whose Tariff has been already determined under section 62 of Electricity Act) to be allowed in tariff for increase in cost of generation on account of using bio-mass pallets, viz., cost of pellets, increase in auxiliary power consumption (APC) and plant heat rate (HR) etc. Increase in cost of generation will not be taken into account for the purpose of merit order for despatch of electricity. The Appropriate Commission shall devise a suitable mechanism to ensure the use of biomass as per (a) above.





# भारत का राजपत्र

## The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

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अधिसूचना

नई दिल्ली, 25 जनवरी, 2016

का.आ. 254(ख).—भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय की अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 (जिसे इसमें इसके पश्चात् उक्त अधिसूचना कहा गया है) में कतिपय संशोधनों का प्रारूप, जिन्हें केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) के अंतर्गत करने का प्रस्ताव करती है, भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 1396(अ), तारीख 25 मई, 2015 द्वारा प्रकाशित किया गया था, जिसके द्वारा ऐसे सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, उस तारीख से, जिसको उक्त प्रारूप संशोधनों को अंतर्विष्ट करने वाली राजपत्र की प्रतियां जनता को उपलब्ध करा दी जाती हैं, साठ दिनों के अवसान से पूर्व आक्षेप और सुझाव आमंत्रित किए गए थे;

और उक्त राजपत्र की प्रतियां 25 मई, 2015 को जनता को उपलब्ध करा दी गई थी;

और उक्त प्रारूप अधिसूचना के संबंध में, ऐसे सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, प्राप्त सभी आक्षेपों और सुझावों पर केन्द्रीय सरकार द्वारा सम्यक् रूप से विचार कर लिया गया है;

अतः, अब, केन्द्रीय सरकार पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के उप-नियम (3) के खंड (घ) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए उक्त अधिसूचना में निम्नलिखित संशोधन करती है, अर्थात् :-

1. उक्त अधिसूचना के पैरा 1 में-

- (क) उप पैरा 1(क) में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (ख) उप पैरा 3 में "100 कि.मी." अंकों और शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (ग) उप पैरा 5 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;
- (घ) उप पैरा 7 में "सौ किलोमीटर" शब्दों के स्थान पर "तीन सौ किलोमीटर" शब्द रखे जाएंगे;

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(1)

## 2. उक्त अधिसूचना के पैरा 2 में:-

(क) उप पैरा (1) के पश्चात् निम्नलिखित परंतुक अंतःस्थापित किया जाएगा, अर्थात्:-

"परंतु यह और कि शुष्क ईएसपी फ्लाई ऐश के 20 प्रतिशत का निःशुल्क प्रदाय करने का निर्वाहन उन तापीय विद्युत संयंत्रों पर लागू नहीं होगा, जो विहित रीति में सौ प्रतिशत फ्लाई ऐश का उपयोग करने में समर्थ हैं।"

(ख) उप पैरा (7) के पश्चात् निम्नलिखित उप पैरा अंतःस्थापित किए जाएंगे, अर्थात् :-

- (8) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र (जिसके अंतर्गत कैपटिव और/या सह उत्पादन केन्द्र भी हैं), अधिसूचना की तारीख से तीन मास के भीतर उनके पास उपलब्ध प्रत्येक किस्म की ऐश के स्टॉक के व्यौरे अपनी वेबसाइट पर अपलोड करेगा और उसके पश्चात् मास में कम से कम एक बार स्टॉक की स्थिति को अद्यतन करेगा।
- (9) प्रत्येक कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र समर्पित शुष्क ऐश साइलोस प्रतिष्ठापित करेगा, जिनके पास पृथक् पहुंच मार्ग होंगे, जिससे कि फ्लाई ऐश के परिधान को सुगम बनाया जा सके।
- (10) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र से 100 किलोमीटर की परिधि के भीतर सड़क संनिर्माण परियोजनाओं या ऐश आधारित उत्पादों के संनिर्माण के लिए या कृषि संबंधित क्रियाकलापों में मृदा अनुकूलक के रूप में उपयोग के लिए ऐश के परिवहन की लागत ऐसे कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र द्वारा वहन की जाएगी और 100 किलोमीटर की परिधि से परे और 300 किलोमीटर की परिधि के भीतर ऐसे परिवहन की लागत को उपयोक्ता और कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र के बीच समान रूप से अंश भाजित की जाएगी।
- (11) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र अपने परिसरों के भीतर या अपने परिसरों के आस-पास ऐश आधारित उत्पाद संनिर्माण सुविधाओं का संवर्धन करेंगे, उन्हें अपनाएंगे और उनकी स्थापना करेंगे (वित्तीय और अन्य सहवृद्ध अवसंरचना)।
- (12) नगरों के आस-पास बने कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र ऐश आधारित उत्पाद विनिर्माण इकाइयों का संवर्धन करेंगे और उनकी स्थापना का समर्थन और उसमें सहायता करेंगे ताकि ईंटों और अन्य भवन संनिर्माण सामग्रियों की अपेक्षाओं की पूर्ति की जा सके और साथ ही परिवहन में कमी की जा सके।
- (13) यह सुनिश्चित करने के लिए कि किसी सड़क संनिर्माण का संविदाकार सड़क निर्माण में ऐश का उपयोग करता है, सड़क संनिर्माण के लिए संबद्ध प्राधिकारी संविदाकार को किए जाने वाले संदाय को तापीय विद्युत संयंत्र से ऐश के प्रदाय के प्रमाणीकरण के साथ जोड़ेगा।
- (14) कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, 300 किलोमीटर की परिधि के भीतर प्रधानमंत्री ग्रामीण सड़क योजना के अधीन सड़क संनिर्माण परियोजनाओं और भवनों, सड़कों, बांधों और तटबंधों के संनिर्माण को अंतर्वलित करने वाले सरकार के आस्ति सृजन कार्यक्रमों के स्थल तक ऐश के परिवहन की संपूर्ण लागत का वहन करेगा।"

## 3. उक्त अधिसूचना के पैरा (2) के उप-पैरा (2क) को उप-पैरा (15) के रूप में पढ़ा जाए और उक्त उप-पैरा के अंत में निम्नलिखित उप-पैरा जोड़ा जाएगा, अर्थात् :-

"और तटीय जिलों में अवस्थित कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र तटरेखा सुरक्षा उपायों का समर्थन करेंगे, उनके संनिर्माण में सहायता करेंगे या उसमें प्रत्यक्ष रूप से सम्मिलित होंगे।"

## 4. उक्त अधिसूचना के पैरा 3 में उप-पैरा (7) के पश्चात् निम्नलिखित अंतःस्थापित किया जाएगा, अर्थात् :-

- (8) विभिन्न संनिर्माण परियोजनाओं का अनुमोदन करने वाले सभी राज्य प्राधिकारियों का यह उत्तरदायित्व होगा कि वे यह सुनिश्चित करें कि फ्लाई ऐश का उपयोग करने या फ्लाई ऐश आधारित उत्पादों के लिए तापीय विद्युत संयंत्रों और संनिर्माण अभिकरण या संविदाकारों के बीच परस्पर समझ ज्ञापन या कोई अन्य ठहराव किया जाता है।
- (9) राज्य प्राधिकारी, दस लाख या अधिक की जनसंख्या वाले नगरों की भवन निर्माण संबंधी उप विधियों का संशोधन करेंगे ताकि भार वहन करने वाली संरचनाओं हेतु तकनीकी अपेक्षाओं के अनुसार आवश्यक विनिर्देशों को ध्यान में रखते हुए ऐश आधारित ईंटों के आजापक उपयोग को सुनिश्चित किया जा सके।

- (10) संबद्ध प्राधिकारी सभी सरकारी स्कीमों या कार्यक्रमों में, उदाहरणार्थ महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार गारंटी अधिनियम, 2005 (मनरेगा), स्वच्छ भारत अभियान, शहरी और ग्रामीण आवासन स्कीम, जहां संनिर्मित क्षेत्र एक हजार वर्ग फुट से अधिक हैं और अवसंरचना संबंधी संनिर्माण में, जिसके अंतर्गत अभिहित औद्योगिक संपदाओं या पार्कों या विशेष आर्थिक जोनों में भवन निर्माण भी है, ऐश आधारित ईंटों या उत्पादों के आजापक उपयोग को सुनिश्चित करेंगे।
- (11) कृषि मंत्रालय कृषि क्रियाकलापों में ऐश के मृदा अनुकूलक के रूप में उपयोग का संवर्धन करने पर विचार कर सकेगा।"
6. सभी संबद्ध प्राधिकारियों द्वारा उपरोक्त उपबंधों का अनुपालन करने की समयावधि 31 दिसंबर, 2017 है। कोयला या लिग्नाइट आधारित तापीय विद्युत संयंत्र, उनके द्वारा उत्पादित फ्लाई ऐश के 100 प्रतिशत उपयोग के अतिरिक्त उपरोक्त उपबंधों का अनुपालन 31 दिसंबर, 2017 से पूर्व करेंगे।

[फा. सं. 9-8/2005-एचएसएमडी]

विश्वनाथ सिन्हा, संयुक्त सचिव

टिप्पण:- मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) में अधिसूचना सं. का.आ. 763(अ), तारीख 14 सितंबर, 1999 द्वारा प्रकाशित की गई थी और इसमें पश्चातवर्ती संशोधन अधिसूचना सं. का.आ. 979(अ), तारीख 27 अगस्त, 2003 और का.आ. 2804(अ), तारीख 3 नवंबर, 2009 द्वारा किए गए थे।

MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE  
NOTIFICATION

New Delhi, the 25th January, 2016

S.O. 254(E).—Whereas a draft of certain amendments to the Government of India in the Ministry of Environment, Forests and Climate Change number S.O. 763(E), dated the 14th September, 1999 (hereinafter referred to as the said notification) which the Central Government proposes to make under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii), vide S.O. 1396(E), dated the 25th May, 2015 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft amendments were made available to the public.

And, whereas copies of the said Gazette were made available to the public on 25th May, 2015;

And, whereas all the objections and suggestions received from all persons likely to be affected thereby in respect of the said draft notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following amendments to the said notification, namely:—

- I. In the said notification, in paragraph 1,-
  - (a) in sub-paragraph 1(A), for the words "hundred kilometers", the words "three hundred kilometers" shall be substituted;
  - (b) in sub-paragraph (3), for the figures and letters "100 km", the words "three hundred kilometers" shall be substituted;
  - (c) in sub-paragraph (5), for the words "hundred Kilometers", the words "three hundred Kilometers" shall be substituted;
  - (d) in sub-paragraph (7), for the words "hundred Kilometers", the words "three hundred Kilometers" shall be substituted.

## 2. In the said notification, in paragraph 2:-

(a) after sub-paragraph (1), the following proviso shall be inserted, namely:-

"provided further that the restriction to provide 20 % of dry ESP fly ash free of cost shall not apply to those thermal power plants which are able to utilise 100 % fly ash in the prescribed manner."

(b) after sub-paragraph (7), the following sub-paragraphs shall be inserted, namely:-

"(8) Every coal or lignite based thermal power plants (including captive and/or co-generating stations) shall, within three months from the date of notification, upload on their website the details of stock of each type of ash available with them and thereafter shall update the stock position at least once a Month.

(9) Every coal or lignite based thermal power plants shall install dedicated dry ash silos having separate access roads so as to ease the delivery of fly ash.

(10) The cost of transportation of ash for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from a coal or lignite based thermal power plant shall be borne by such coal or lignite based thermal power plant and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the coal or lignite based thermal power plant.

(11) The coal or lignite based thermal power plants shall promote, adopt and set up (financial and other associated infrastructure) the ash based product manufacturing facilities within their premises or in the vicinity of their premises so as to reduce the transportation of ash.

(12) The coal or lignite based thermal power plants in the vicinity of the cities shall promote, support and assist in setting up of ash based product manufacturing units so as to meet the requirements of bricks and other building construction materials and also to reduce the transportation.

(13) To ensure that the contractor of road construction utilizes the ash in the road, the Authority concerned for road construction shall link the payment of contractor with the certification of ash supply from the thermal power plants.

(14) The coal or lignite based thermal power plants shall within a radius of three hundred kilometers bear the entire cost of transportation of ash to the site of road construction projects under Pradhan Mantri Gramin Sadak Yojna and asset creation programmes of the Government involving construction of buildings, road, dams and embankments".

## 3. In the said notification, in paragraph 2, sub-paragraph (2A) be read as sub-paragraph (15) and at the end of the said sub-paragraph, the following sub-paragraph shall be added, namely:-

"and the coal or lignite based thermal power plants located in coastal districts shall support, assist or directly engage into construction of shore line protection measures."

## 4. In the said notification, in paragraph 3, after sub-paragraph (7), the following shall be inserted, namely:-

"(8) It shall be the responsibility of all State Authorities approving various construction projects to ensure that Memorandum of Understanding or any other arrangement for using fly ash or fly ash based products is made between the thermal power plants and the construction agency or contractors.

(9) The State Authorities shall amend Building Bye Laws of the cities having population One million or more so as to ensure the mandatory use of ash based bricks keeping in view the specifications necessary as per technical requirements for load bearing structures.

(10) The concerned Authority shall ensure mandatory use of ash based bricks or products in all Government Scheme or programmes e.g. Mahatma Gandhi National Rural Employment Guarantee Act, 2005 (MNREGA), SWACHH BHARAT ABIYAN, Urban and Rural Housing Scheme, where built up area is more than 1000 square feet and in infrastructure construction including buildings in designated industrial Estates or Parks or Special Economic Zone.

- (11) The Ministry of Agriculture may consider the promotion of ash utilisation in agriculture as soil conditioner.”
5. The time period to comply with the above provisions by all concerned authorities is 31<sup>st</sup> December, 2017. The coal or lignite based thermal power plants shall comply with the above provision in addition to 100 % utilization of fly ash generated by them before 31<sup>st</sup> December, 2017.

[F. No. 9-8/2005-HSMD]

BISHWANATH SINHA, Jt. Secy.

Note:- The principal notification was published in the Gazette of India, Extraordinary, Part II, section 3, Sub-section (ii) *vide* notification S.O. 763(E), dated the 14<sup>th</sup> September, 1999 and was subsequently amended *vide* notification S.O. 979(E), dated the 27<sup>th</sup> August, 2003 and S.O. 2804(E), dated the 3<sup>rd</sup> November, 2009.