



Petition No :

Kahalgaon STPS-II

{3X500 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 **Kahalgaon Super Thermal Power Station, Stage-II (1500 MW)** for the period from 01.04.2019 to 31.03.2024.

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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 GRIDCO Ltd.
24, Janpath,
Bhubaneswar – 751007
- 2 Power Department
Govt. of Sikkim
Kazi Road, Gangtok
Sikkim-737101
- 3 Gujarat Urja Vikas Nigam Limited
Sardar Patel Vidyut Bhawan
Race Course, Baroda - 390007
- 4 Madhya Pradesh Management
Company Ltd.
Shakti Bhawan, Vidyut Nagar
Jabalpur – 482008
- 5 Maharashtra State Electricity
Distribution Company Limited
'Prakashgard', Bandra(East)



Mumbai-400 051

- 6 Chhatisgarh State Power Distribution Company Ltd.
Po. Sundernagar, Dhagania,
Raipur, 492013
- 7 Electricity Department
Administration of Dadra and Nagar Havel
(DNH)
Silvassa, via VAPI
- 8 Electricity Department
Administration of Daman & Diu(DD)
Daman-396 210
- 9 Uttar Pradesh Power Corp. Limited
Shakti Bhawan
14, Ashok Marg
Lucknow – 226001
- 10 Uttaranchal Power Corporation Ltd.
Urja Bhawan, Kanwali Road
Dehradun-248001
- 11 Rajasthan Urja Vikas Nigam Ltd
(RUVN)
Vidyut Bhawan, Janpath
Jaipur 302 005
- 12 Power Development Department(J&K)
Govt. of J&K
Secretariat, Srinagar
- 13 BSES Rajdhani Power Ltd.
BSES Bhawan, Nehru Place
New Delhi-110019
- 14 BSES Yamuna Power Ltd.
Shakti Kiran Bldg., Karkardooma
Delhi-6
- 15 North Delhi Power Ltd.
33 8KV Sub Station Bldg.
Hudson Lane, Kingsway Camp
New Delhi-11
- 16 Haryana Power Purchase Centre Ltd.
Shak13ti Bhawan, Sector-VI,
Panchkula
Haryana-134109

Lyra

- 17 Punjab State Electricity Board
The 17Mall
Patiala18- 147001
- 18 Himachal Pradesh State Electricity
Board
Vidyut Bhawan
Shimla-171004
- 19 Electricity Department
Union Territory of Chandigarh
Addl. Office Building
Sector-9D, Chandigarh

lg

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 **Kahalgaon Super Thermal Power Station, Stage-II (1500 MW)** (hereinafter referred to as Kahalgaon-II) is one such station located in the State of Bihar. The power generated from Kahalgaon-II 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 Kahalgaon-II for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

- 6) The tariff of Kahalgaon-II for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 21.01.2017 in Petition No 283/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. Further, Hon'ble Commission vide Review Order 26.09.2017 (13/RP/2017) had provided liberty to claim the MGR Land at the time of true up of the station.
- 7) The Petitioner thereafter had filed an Appeal (being No 101/2017) in Appellate Tribunal of Electricity on certain aspects of the order dated 21.01.2017. The appeal is under consideration of the Hon'ble Appellate Tribunal of Electricity. The petitioner vide affidavit dated 21.01.2020 had filed a separate true up petition for the period 01.04.2014 to 31.03.2019 for revision of tariff in line with the applicable provisions of Tariff Regulations 2014.
- 8) It is submitted that Hon'ble Commission vide order dated 21.01.2017 in Petition no 283/GT/2014 has allowed a capital cost of Rs. 5583.98 Cr. as on 31.03.2019 based on the admitted projected capital expenditure for the 2014-19 period. However, the actual closing capital cost as on 31.03.2019 has been worked out in the aforesaid true-up petition as Rs. 5556.95 Crs based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (-)27.02 Cr from the admitted capital cost as on 31.03.2019 and accordingly the opening capital cost as on 01.04.2019 has been considered as Rs 5556.95 Cr. in the instant petition.



The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2019 and determine the tariff in the present petition for the period 2019-24.

- 9) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and estimated additional capital expenditures for the period 2019-24 have been projected based on the relevant Regulations of the Tariff Regulations, 2019.
- 10) 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. The details in respect of water charges such as type of cooling water system have been furnished below. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Thermal Power Plant
Type of cooling water system	Closed Cycle
Consumption of Water	Presently water charges are not billed by the concerned authorities for the 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.
Rate of Water charges	
Total Water Charges	

- 11) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24. The actuals for relevant years should be submitted at the time of true 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

- 12) The present petition is filed on the basis of norms specified in the Tariff Regulations 2019. It is submitted that the petitioner is in the process of installing the Emission Control Systems (ECS) in compliance of the Revised Emission Standards as notified by MOEF vide notification dated 07.12.2015 as amended. Completion of these schemes in compliance of revised emission norms will effect the station APC, Heat Rate , O&M expenses etc. In addition the availability of the unit/ station would be also effected due to shutdown of the units for installation of ECS. The petitioner would be filing the details of the same in a separate petition in terms of the Regulation 29 of Tariff Regulations 2019. The tariff of the instant petition would undergo changes consequent to the order of the Hon'ble Commission in the said ECS petition.
- 13) It is submitted that a notification dated 25.01.2016 has been issued by Government of India, Ministry of Environment, Forest & Climate Change (MOEFCC) under the statutory provisions of Environment (Protection) Act 1986. The said notification of MOEFCC prescribed for bearing the of transportation cost of Fly Ash generated at power stations. In this regard, Petitioner filed a petition, being no. 172/MP/2016, before the Hon'ble Commission seeking reimbursement of the additional expenditure for Fly Ash Transportation directly from the beneficiaries as the same was in the nature of statutory expense. Hon'ble Commission vide order dated 05.11.2018 disposed of the said petition and directed as follows :

"31. Accordingly, we in exercise of the regulatory power hold that the actual additional expenditure incurred by the Petitioner towards transportation of ash in terms of the MOEFCC Notification is admissible under "Change in Law" as additional O&M expenses. However, the admissibility of the claims is subject to prudence check of the following conditions on case to case basis for each station:

a) Award of fly ash transportation contract through a transparent competitive bidding procedure. Alternatively, the schedule rates of the respective State Governments, as applicable for transportation of fly ash.

b) Details of the actual additional expenditure incurred on Ash transportation after 25.1.2016, duly certified by auditors.

c) Details of the Revenue generated from sale of fly ash/ fly ash products and the expenditure incurred towards Ash utilisation up to 25.1.2016 and from 25.1.2016 to till date, separately.

d) Revenue generated from fly Ash sales maintained in a separate account as per the MoEF notification.

32. The Petitioner is granted liberty to approach the Commission at the time of revision of tariff of the generating stations based on true-up exercise for the period 2014-19 in terms of Regulation 8 of the 2014 Tariff Regulations along with all details / information, duly certified by auditor."

The expenditure towards the ash transportation charges are recurring in nature. The Petitioner has been incurring ash transportation expenditure in some of its stations in the current tariff period also. In case the same is permitted to be recovered at the end of the tariff period 2019-24, there will be additional liability on the beneficiary on account of the interest payment for the period till the time the true-up petitions for the period 2019-24 is decided. To avoid the interest payment liability of the beneficiaries it is prayed that the petitioner may be allowed to recover/ pass on the ash transportation charges after adjusting the revenue earned from sale of ash at the end of each quarter of financial year subject to true-up at the end of the period.

- 14) It is submitted that 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 for ordering the BTG plant, 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 82.73% (for Unit#1&2) & 82.38 (for Unit#3)%the unit heat rate would be worked out to be 2350.3 kcal/kwh (Unit- I&II) 2360.3 kcal/kwh (Unit-III) kcal/kwh and the operating margin available over the design heat rate would be ~1% 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 1944.4 Kcal/Kwh and design boiler efficiency of 82.73% (for Unit#1&2) & 82.385(for Unit#3) 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%.

- 15) It is submitted that the Petitioner has already paid the requisite filing fee vide UTR No. CMS1106438370 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.

- 16) 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.
- 17) 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
- 18) 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 31.3.2014 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 prays that the Hon'ble Commission may be pleased to:

- i) Approve tariff of Kahalgaon-II 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) Pass any other order as it may deem fit in the circumstances mentioned above.

Place: New Delhi

Date: 29.01.2020


Petitioner

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

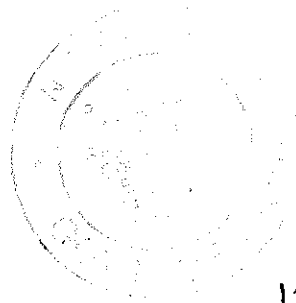
IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Kahalgaon Super Thermal Power Station, Stage-II (1500 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 GRIDCO Ltd
24, Janpath,
Bhubaneswar-751007

.....and Others



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.

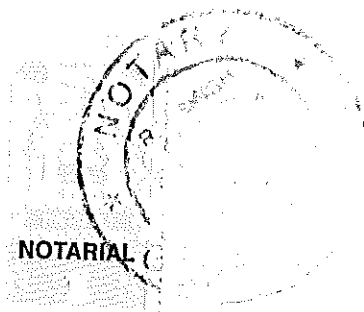

(DEPONENT)

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 ^{29th} January 2020.


(DEPONENT)



TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Kahalgaon Super Thermal power Station Stage-II

(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	NA
FORM- 4	Details of Foreign loans	NA
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	NA
FORM- 7	Details of Project Specific Loans	NA
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	***

Provide yearwise for the period 2019-24

** Additional forms

*** To be submitted 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	✓

*** To be submitted at the time of true up

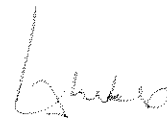
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List of supporting documents for tariff filing for Thermal Stations

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. 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. 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	NA
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)	NA
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

** Shall be provided at the time of true up



Summary of Tariff

Name of the Petitioner:		NTPC Limited								
Name of the Generating Station:		Kahalgau Super Thermal power Station Stage-II								
Place (Region/District/State):		Eastern Region/ Bhagalpur/ Bihar								
		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	28,789.37	28,730.77	28,888.84	29,057.90	12,920.30	13,974.74		
1.2	Interest on Loan	Rs Lakh	10,909.90	8,621.30	6,450.55	4,283.62	2,951.01	2,601.56		
1.3	Return on Equity	Rs Lakh	32,918.44	31,446.46	31,619.47	31,804.51	32,158.84	32,886.33		
1.4	Interest on Working Capital	Rs Lakh	13,927.72	9,575.14	9,622.57	9,669.21	9,488.59	9,586.54		
1.5	O&M Expenses	Rs Lakh	33,082.87	36,104.74	37,523.72	39,011.09	40,569.20	42,185.62		
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	0.00							
	Total	Rs Lakh	119628.30	114478.41	114105.14	113826.32	98087.95	101234.79		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as per FSA	Rs/Ton							2671.95	
	(%) of Fuel Quantity	(%)								
2.2	Landed Fuel Cost Imported Coal as per FSA								NA	
	(%) 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.								NA	
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit							0.020	
	Energy Charge Rate ex-bus (Paise/kWh)	Rs/Unit							2.257	
										<i>6/2/2024</i>
										(Petitioner)

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Kahalgaon Super Thermal power Station Stage-II

Amount in Rs. Lakhs

Statement showing claimed capital cost – (A+B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	555,695.69	560,495.69	561,836.69	567,063.69	574,413.69
2	Add: Addition during the year/period	4,800.00	1,341.00	5,227.00	7,350.00	18,472.00
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	560,495.69	561,836.69	567,063.69	574,413.69	592,885.69
7	Average Capital Cost	558,095.69	561,166.19	564,450.19	570,738.69	583,649.69

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	555695.69	560495.69	561836.69	567063.69	574413.69
2	Add: Addition during the year / period	4800.00	1341.00	5227.00	7350.00	18472.00
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	560495.69	561836.69	567063.69	574413.69	592885.69
7	Average Capital Cost	558095.69	561166.19	564450.19	570738.69	583649.69

**Statement showing claimed capital cost eligible for RoE at weighted average rate of interest
on actual loan portfolio (B)**

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

[Signature]
(Petitioner)

Name of the Petitioner:

NTPC Limited

Name of the Generating Station:

Kahalgaon Super Thermal power Station Stage-II

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
	Return on Equity					
1	Gross Opening Equity (Normal)	166,708.71	168,148.71	168,551.01	170,119.11	172,324.107
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year		0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	166,708.71	168,148.71	168,551.01	170,119.11	172,324.11
5	Add: Increase in equity due to addition during the year / period	1440.00	402.30	1568.10	2205.00	5541.60
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)	168,148.71	168,551.01	170,119.11	172,324.11	177,865.71
11	Average Equity (Normal)	167,428.71	168,349.86	169,335.06	171,221.61	175,094.91
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	31,446.46	31,619.47	31,804.51	32,158.84	32,886.33


(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Kahalgaon Super Thermal power Station Stage-II

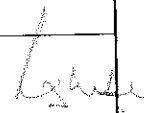
Statement showing Return on Equity at Normal Rate

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
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 (%)	9.883	9.889	9.912	9.993	10.048
13	Total ROE	0.00	0.00	0.00	0.00	0.00


(Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Ltd.		
Name of the Generating Station	Kahalgaoon STPS - II		
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III
Installed Capacity (MW)	500	500	500
Actual COD /Date of Taken Over (as applicable)	1-Aug-08	30-Dec-08	20-Mar-10
Pit Head or Non Pit Head	Pit Head	Pit Head	Pit Head
Name of the Boiler Manufacture	BHEL	BHEL	BHEL
Name of Turbine Generator Manufacture	BHEL	BHEL	BHEL
Main Steam Pressure at Turbine inlet (kg/Cm ²) abs.	170	170	170
Main Steam Temperature at Turbine inlet (°C)	537	537	537
Reheat Steam Pressure at Turbine inlet (kg/Cm ²)	40.492	40.492	40.492
Reheat Steam Temperature at Turbine inlet (°C)	537	537	537
Main Steam flow at Turbine inlet under MCR condition (tons /hr)	1675	1675	1625
Main Steam flow at Turbine inlet under VWO condition (tons /hr)	1498.5	1498.5	1498.5
Unit Gross electrical output under MCR /Rated condition (MW)	559	559	542
Unit Gross electrical output under VWO condition (MW)	524.944	524.944	524.944
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)	1944.4	1944.4	1944.4
Conditions on which design turbine cycle heat rate guaranteed			
% BMCR	89.46	89.46	92.22
% Makeup Water Consumption	0	0	0
Design Capacity of Inlet Cooling System M ³ /hr	60000	60000	60000
Design Cooling Water Temperature (°C)	33	33	33
Back Pressure (mmHg)	77	77	77
Steam flow at super heater outlet under BMCR condition (tons/hr)	1675	1675	1625
Steam Pressure at super heater outlet under BMCR condition (kg/Cm ²)	178	178	178
Steam Temperature at super heater outlet under BMCR condition (°C)	540	540	540
Steam Temperature at Reheater outlet at BMCR condition (°C)	540	540	540
Design / Guaranteed Boiler Efficiency (%)	82.73	82.73	82.38
Design Fuel with and without Blending of domestic/imported coal	2850 Kcal/kg		
Type of Cooling Tower	Induced draft		
Type of cooling system	Closed Circuit Cooling System		
Type of Boiler Feed Pump	TDBFP		
Fuel Details			
-Primary Fuel	Coal		
-Secondary Fuel	LDO/ HFO		
-Alternate Fuels	-		
Special Features/Site Specific Features	MGR		
Special Technological Features	FGD/NOx under implementation		
Environmental Regulation related features	ESP		
 Petitioner			

Normative parameters considered for tariff computations

Name of the Petitioner:	NTPC Limited						
Name of the Generating Station:	Kahalgaon Super Thermal power Station Stage-II						
(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** \$\$	%	-	8.156	8.161	8.179	8.247	8.292
Effective Tax Rate	%	21.3420	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	%	5.75	6.25	6.25	6.25	6.25	6.25
Gross Station Heat Rate	kCal/kWh	2425.00	2471.31	2471.31	2471.31	2471.31	2471.31
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	45	40	40	40	40	40
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	20.43	22.51	23.3	24.12	24.97	25.84
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	10			10		
SBI 1 Year MCLR plus 350 basis point ³	%	13.50	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

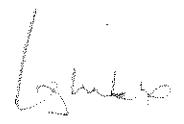
Name of the Company : NTPC Limited
Name of the Power Station : Kahalgaon Super Thermal power Station Stage-II

Amount in Rs. Lakhs						
S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	7	8
1	O&M expenses under Reg.35(1)					
1a	Normative	33765.00	34950.00	36180.00	37455.00	38760.00
2	O&M expenses under Reg.35(6)					
2a	Water Charges #	0.00	0.00	0.00	0.00	0.00
2b	Security expenses*	2339.74	2573.72	2831.09	3114.20	3425.62
2c	Capital Spares**	-	-	-	-	-
3	O&M expenses-Ash Transportation**	-	-	-	-	-
	Total O&M Expenses	36104.74	37523.72	39011.09	40569.20	42185.62

** Shall be provided at the time of trueing 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.

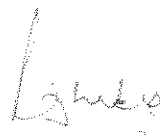
* Subject to true up



Petitioner




Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :	NTPC Limited	
Name of the Power Station :	Kahalgaon Super Thermal power Station Stage-II	
Last date of order of Commission for the project	Date (DD-MM-YYYY)	21-01-2017
Reference of petition no. in which the above order was passed	Petition no.	283/GT/2014
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:		
Capital cost	(Rs. in lakh)	558398.40
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)		22571.96
Gross Normative Debt		390,878.88
Cumulative Repayment		270,609.00
Net Normative Debt		120,269.88
Normative Equity		167,519.52
Cumulative Depreciation		271,189.93
Freehold land		131.70
 (Petitioner)		

CL

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :	NTPC Limited	
Name of the Power Station :	Kahalgaon Super Thermal power Station Stage-II	
Reference of Final True-up Tariff Petition	Affidavit dated	
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 21.01.2017 In Pet. No.283/GT/2014	Rs. Lakhs	558398.40
Adjustment as per Para (8) of this petition		-2702.71
Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed:		
Capital cost as on 01.04.2019	(Rs. in lakh)	555695.69
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)		11628.40
Gross Normative Debt		388986.98
Cumulative Repayment		270595.65
Net Normative Debt		118391.33
Normative Equity		166708.71
Cumulative Depreciation		271566.73
Freehold land		131.7


(Petitioner)

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

TRANCHE NO

T00001

D00001

BP NO 5050000711

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 :	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
	UNCHAHAH 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
	TALAI PALI COAL MINE	5,000,000,000.00
	Total Allocated Amount	20,000,000,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

DRAWAL NO.

T00001

D00001

BP NO 5050000241

Unsecured Loan From LIC-III		
Source of Loan :	LIC-III	
Currency :	INR	
Amount of Loan :	40,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawal	22.03.2004	
Interest Type :	Fixed	
Fixed Interest Rate :	6.571%	
Base Rate, If Floating Interest		
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Half Yearly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 years	
Moratorium effective from :	15-Jan-04	
Repayment Period (Inc Moratorium) :	20 Years	
Repayment Frequency :	30 Half Year	
Repayment Type :	Avg.	
First Repayment Date :	31-Dec-08	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	TALCHER-II	900,000,000.00
	RAMAGUNDAM-III	500,000,000.00
	KOLDAM	1,300,000,000.00
	VINDHYACHAL-III	800,000,000.00
	KAHALGAON-II	850,000,000.00
	SIPAT-II	350,000,000.00
	SIPAT-I	100,000,000.00
	UNCHAHAR-III	150,000,000.00
	RGCCPP	50,000,000.00
	Total Allocated Amount	5,000,000,000.00

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

BP NO 5070000011		TRANCHE NO T00001	D00001
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	26.12.2008		
Interest Type :	Floating		
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00001 - 9.94%		
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 :	4 Years		
Moratorium effective from :	26.12.2008		
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	300,000,000.00	
	SIMHADRI-II	750,000,000.00	
	KAHALGAON-II	400,000,000.00	
	KORBA-III	300,000,000.00	
	FARAKKA-III	250,000,000.00	
Total Allocated Amount		2,000,000,000.00	

Ok

Signature

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

TRANCHE NO

BP NO 5070000011

T00001

D00022

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	4,000,000,000	
Date of Drawl	22.11.2010	
Interest Type :	Fixed with Reset after every 3 Years	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00022-7.62%	
Margin, If Floating Interest :	D00022 -	
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 :	26.12.2008	
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
	KAHALGAON II	200,000,000.00
	KOLDAM	100,000,000.00
	FARAKKA III	250,000,000.00
	NCTPP-DADRI-II	100,000,000.00
	SIMHADRI-II	100,000,000.00
	BONGAIGAON	200,000,000.00
	BARH-II	550,000,000.00
	MAUDA	400,000,000.00
	VINDHYACHAL IV	200,000,000.00
	RIHAND-III	350,000,000.00
	TALCHER-II	300,000,000.00
	RIHAND-II	150,000,000.00
	VINDHYACHAL III	500,000,000.00
	UNCHAHAR-III	200,000,000.00
	PAKRI BARWADIH	400,000,000.00
	Total Allocated Amount	4,000,000,000.00

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

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 :	26.10.2010	
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
Total Allocated Amount		1,000,000,000

OK

LS/2010

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

BP NO 505000211			TRANCHE NO T00001	D00001
Unsecured Loan From Vijaya Bank-IV				
Source of Loan :	Vijaya Bank - IV			
Currency :	INR			
Amount of Loan :	3,790,000,000			
Total Drawn amount :	1,100,000,000			
Date of drawl	15.09.2010			
Interest Type :	Floating			
Fixed Interest Rate :				
Base Rate, If Floating Interest	D00001- 8.40%			
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 :	15.09.2010			
Repayment Period (Inc Moratorium) :	10 Years			
Repayment Frequency :	14 Half Yearly Instalment			
Repayment Type :	AVG			
First Repayment Date :	15.03.2014			
Base Exchange Rate :	RUPEE			
Date of Base Exchange Rate :	N.A.			
Project Code	Project Name	Amount		
	KAHALGAON-II	1,100,000,000.00		
Total Allocated Amount				1,100,000,000.00

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

BP NO 505000211			TRANCHE NO T00001	D00003
Unsecured Loan From Vijaya Bank-IV				
Source of Loan :	Vijaya Bank - IV			
Currency :	INR			
Amount of Loan :	3,790,000,000			
Total Drawn amount :	500,000,000			
Date of drawl	21.05.2011			
Interest Type :	Floating			
Fixed Interest Rate :				
Base Rate, If Floating Interest	D00003- 8.40%			
Margin, If Floating Interest :	D00003 - 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 :	15.09.2010			
Repayment Period (Inc Moratorium) :	10 Years			
Repayment Frequency :	14 Half Yearly Instalment			
Repayment Type :	AVG			
First Repayment Date :	15.03.2014			
Base Exchange Rate :	RUPEE			
Date of Base Exchange Rate :	N.A.			
Project Code	Project Name	Amount		
	KAHALGAON-II	500,000,000.00		
Total Allocated Amount				500,000,000.00

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Form 8- Domestic Bonds- Details of Allocation of corporate loans to various projects during the FY 2014-19

Particulars	XXI 7.7125%	XXIII 8.3796%	XXIV 8.6077%	54	66
Source of Loan ¹	BONDS	BONDS	BONDS	BONDS	BONDS
Currency ²	INR	INR	INR	INR	INR
Amount of Loan sanctioned	100000	50000	50000	1030683	392500
Interest Type ⁶	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	7.7125%	8.3796%	8.6077%	8.49%	7.37%
Base Rate, if Floating Interest ⁷	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest ⁸	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor ⁹	No	No	No	No	No
If above is yes, specify caps/floor				N/A	N/A
Moratorium Period ¹⁰	4.5 yrs *	4.5 yrs *	4.5 yrs *	8	15
Moratorium effective from #	02.02.06	05.02.07	09.03.2007	3/25/2015	12/14/2016
Repayment Period ¹¹	9.5 yrs	9.5 yrs	9.5 yrs	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment
Repayment effective from	02.08.10	05.08.11	09.09.11	3/25/2023	12/14/2031
Repayment Frequency ¹²	Half Yearly	Half Yearly	Half Yearly	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment
Repayment Instalment ^{13,14}	5000	2500	2500	Installments 1st - 206,136.61 2nd - 412,273.22 3rd - 412,273.22	392500
Base Exchange Rate ¹⁶				N/A	N/A
Door to Door Maturity	14 yrs	14 yrs	14 yrs	10	15
Name of the Projects					
Kahalgaon II Phase I	18,500	1,800	6,000	-	600
Kahalgaon II Phase II	-	-	-	1,800	-
CC					
TOTAL	100,000	50,000	50,000	1,030,683	392,500

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Kahalgaoon Super Thermal power Station Stage-II			
COD	3/20/2010			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulation under which claimed/Justification	Admitted Cost by the Commission, if any	
		2019-20	2020-21	2021-22	2022-23			2023-24
1	2	3	4	5	6	7	8	9
A.	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
1	Ash Dyke/ash related works	800.00	841.00		6000.00	8000.00	25(1)(c) & 25(1)(g)	
2	MGR Doubling S&T System			1882.00		4000.00	25(1)(e)	
3	Land for MGR system for Hurra-C Mines					5000.00	25(1) & 76	
4	MGR Transportation system upto- Hurra-C Mines						25(1) & 76	
5	RO Plant DM Stream		500.00	433.00			25(1) & (76)	1000.00
6	400 KV/ 132 KV Switchyard extension package	4000.00		2342.00			26(1)(b)	6342.31
7	Upgradation of DCS Controllers and HMI			570.00	600.00	712.00	25(2)(c)	
8	Online coal analyser				750.00	760.00	26(1)(b)	
9	CI02 System						26(1)(b) & 26(1)(d)	
	Total (A)	4,800.00	1,341.00	5,227.00	7,350.00	18,472.00		
B.	Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest							
	Total (B)							
	Total Add. Cap. Claimed (A+B)	4,800.00	1,341.00	5,227.00	7,350.00	18,472.00		

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(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Kahaigaon Super Thermal power Station Stage-II		3/20/2010		2019-20		Amount in Rs Lakh	
Name of the Generating Station		Kahaigaon Super Thermal power Station Stage-II		3/20/2010		2019-20		Amount in Rs Lakh		Admitted Cost by the Commission, if any	
COD		Kahaigaon Super Thermal power Station Stage-II		3/20/2010		2019-20		Amount in Rs Lakh		Admitted Cost by the Commission, if any	
For Financial Year		Kahaigaon Super Thermal power Station Stage-II		3/20/2010		2019-20		Amount in Rs Lakh		Admitted Cost by the Commission, if any	
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Protected)		Regulations under which claimed	Justification	8	9			
			Un-discharged Liability included in col. 3	DC Cash basis included in col. 3							
1	2	3	4	5=(3-4)	6	7	8	9			
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate											
1	Ash Dyke/ash related works	800.00		800.00		25(1)(c) & 25(1)(e)	The said amount has been projected against the Ash Dyke raising and other ash dyke related works within the original scope of work. The Works associated are Ash Dyke raising with Ash and earth covering, Construction of sand blanket and sand chimney, Construction of rock toe, inner slope with flat ash brick pitching and outer slope with grass, Construction of decanting well for collection of decanted water for re-use, buttressing, Laying of Hume pipe for drainage of toe drain water, Slope drain on each embankment to escape the rainwater from road, Construction of toe guard on each embankment etc. These works are required to disposalk of ash during the life of plant for sustained operation. The Hon'ble Commission may be pleased to allow the capitalization of ash dyke related works under Regulation 25 (1) (c) & 25(1)(e) of Tariff Regulation 2019.				
2	400 KV/ 132 KV Switchyard extension package	4,000.00		4,000.00		26(1)(b)	Hon'ble commission has allowed 400KV Bus splitting work for safe and reliable operation of the Grid vide order dttd. 21.01.2017 in 283/GT/2014 para 44 of Kahaigaon Stage-II. However, as the bus splitting is related to both Stages (i.e Stage-I and Stage-II) of Kahaigaon STPS, Hon'ble Commission has apportioned the total expenditure in pro rata, based on the capacity of Stage-I (840 MW) and Stage-II (1500MW) of Kahaigaon STPS in the same order. Accordingly, 400KV Buses have been splitted at Kahaigaon STPS Switchyard. But, The station auxiliary supply could not be segregated due to unavailability of ICT at site. Segregation of the station auxiliary supply is equally critical at site in view of overcoming the phase difference which may arise between Unit & Station power supply in Stage-II under the splitted bus scenario. Station auxiliary supply segregation could not be done due to non availability of ICT at site on account of non performance of the vendor M/s EMCO Ltd. M/s EMCO could not meet the timeline. Further, M/s EMCO Limited, Thane had stopped responding with regards to the subject package and on the associated issues. Thereafter the contract of M/s EMCO has been terminated. Petitioner is in the process of re-tendering to award the contract to new supplier. In view of the above, it is pleaded that Hon'ble Commission may be pleased to allow the said work under regulation 26(1)(b) as capitalization of said work is already allowed by Hon'ble Commission in order dated 21.01.2017.	6342.31			
Total (A)		4,800.00		4,800.00							
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest											
6											
Total (B)											
Total Add. Cap. Claimed		4,800.00		4,800.00							

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(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2020-21		Amount in Rs Lakh
Name of the Generating Station		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2020-21		Admitted Cost by the Commission, if any		
COD		3/20/2010		2020-21		2020-21			9	
For Financial Year		2020-21		2020-21		2020-21		8		
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	ACE Claimed (Actual / Projected)	Cash basis included in col. 3	IDC included in col. 3	Regulations under which claimed		Justification	Admitted Cost by the Commission, if any
1	2	3	4	5= (3+4)	6	7	8	9		
A. Works under Original scope. Change in Law etc. eligible for RoE at Normal Rate										
1	Ash Dyke/ash related works	841.00		841.00			25(1) (c) & 25(1)(g)	Justification is provided at sr no 01 of Form SA 2019-20		
2	RO Plant DM Stream	500.00		500.00			25(1) & (7F)	Hon'ble Commission has allowed capitalization of this work vide order dated-21.01.17 at para no 33 in petition No. 283/ET/2014 under Regulation 54, by relaxation of Regulation 14(3)(vi) of the 2014 Tariff Regulations subject to the condition that capitalisation of the asset is after completion of the said work. Hon'ble Commission had observed form that the installation of RO plant in the existing DM stream is essential to meet the requirement of DM make up water to run the power plant. Accordingly, petitioner has awarded the work to M/s Aqua Design. However, contractor Aqua Design did not completed the work as it became in-volet. Now, petitioner is in the process of engaging other agency for completion of remaining work. In view of the above, it is pleaded that Hon'ble Commission may be pleased to allow the said work as capitalization of the work is already allowed by Hon'ble Commission vide order dated 21.01.2017. This work is necessary for sustained operation of the plant and delay in completion of work is beyond the control of petitioner.	1000.00	
Total (A)		1341.00	0.00	1341.00	0.00	0.00				
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest										
6		0.00	0.00	0.00	0.00	0.00				
Total (B)		0.00	0.00	0.00	0.00	0.00				
Total Add. Cap. Claimed		1,341.00	-	1,341.00	-	-				

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(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2021-22		Amount in Rs Lakh
Name of the Generating Station		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2021-22		Amount in Rs Lakh		
Sl. No.	Head of Work / Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	ACE Claimed (Actual / Projected)	Cash basis included in col. 3	IDC included in col. 3	Regulations under which claimed		Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9		
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate										
1	RO Plant DM Stream	433.00		433.00			25(1) & (7/6)	Justification is provided at sr no 02 of Form 9A, 2020-21.	1000.00	
2	MGR Doubling S&T System	1832.00		1832.00			25(1)(e)	It is submitted that this package, which was awarded to M/s RITES, is a part of MGR doubling package under original scope and related with Signaling & Telecommunication of MGR line. This work is required for safety, security and efficient operation of MGR track. Presently rakes are running in manual mode of operation. With commissioning of S&T system the rakes will be operated in automatic mode, thereby safety, reliability and efficiency of MGR track operation will be improved. Further, after commissioning of S&T system, the speed of rakes will increase, thereby more coal can be transported to Plant. It is further submitted that delay in commissioning of MGR S&T system is due to stoppages of work by M/s Kalindoo, which is RITES' sub-agency. Since complete land was not available, which was beyond the control of petitioner, petitioner had to change the lay out. M/s Kalindoo has gone to NCLT for compensation against RITES and NTPC. With lot of persuasion with RITES, it is expected that RITES will start the work with other sub agencies and commission the S&T system in 2021-22. In view of the above, it is pleaded that Hon'ble Commission may be pleased to allow the said work as this work is related with the security and reliability of movement of rakes.	6342.31	
3	400 KV/ 132 KV Switchyard extension package	2342.00		2342.00			26(1)(b)	Justification is provided at sr no 02 of Form 9A, 2019-20		
4	Online coal analyser	570.00		570.00			26(1)(b)	Vide OM dated 26.08.2015 (copy attached at Annexure A), MOEF had mandated all coal based thermal power plants with installed capacity of 100 MW and above located at a distance of 500 kms and above from coal source for sampling and analysis of coal and reporting of compliance in respect of use and supply of raw or blended coal with ash content not exceeding 34% as content in coal. It is also directed that real time monitoring using auto mechanical sampling (Online) from moving stream of coal to be used for sampling fuels. Further, it is submitted that Govt. of India has approved flexible utilization of domestic coal amongst power generating stations of single company and/or from other gencos as per the methodology prescribed by GoI. Accordingly, the instant station is sourcing coal from linked mines of other generating stations of the petitioner which are located at distance of more than 500 Kms. Also, in case of coal supply constrain from linked mine, Petitioner may have to procure e-suction coal or coal from other sources including MoU route. Imported coal etc. and the same could be sourced from different locations located at a distance of 500 kms and more from the instant station. Accordingly online coal analyser is being installed to meet the statutory direction. Accordingly Hon'ble Commission may be pleased to allow the same under change in law.		
Total (A)		5227.00	0.00	5227.00	0.00	0.00	Total (A) - Average rate of Interest			
Total (B)		0.00	0.00	0.00	0.00	0.00	Total (B) - Average rate of Interest			
Total Add. Cap.		5,227.00	-	5,227.00	-	-	Total Add. Cap. (Petitioner)			

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2022-23		Amount in Rs Lakh	
Name of the Generating Station		Kahalgaon Super Thermal power Station Stage-II		3/20/2010		2022-23		Amount in Rs Lakh		Admitted Cost by the Commission, if any	
COD		3/20/2010		2022-23		Amount in Rs Lakh		Admitted Cost by the Commission, if any		9	
For Financial Year		2022-23		Amount in Rs Lakh		Admitted Cost by the Commission, if any		9		8	
Sl. No.	Head of Work/Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	Justification				
1	2	3	4	5= (3-4)	6	7	8				
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate											
1	Ash Dyke/ash related works	6000.00		6000.00		25(1) (c) & 25(1)(g)	Justification is provided at sr no 01 of Form 9A 2019-20				
2	Upgradation of DCS Controllers and HMI	6000.00		6000.00		25(2)(c)	It is submitted that the said work is related with upgradation of DCS controllers & HMI of Kahalgaon Stage-II Units #5,6&7 through OEM BHEL to overcome obsolescence of software and spares. BHEL DCS Controllers having processor DPU 4E and HMI, are supplied with DDCMIS / HMIPIS and based on Windows 2000/Windows XP, which were latest state of the art technology at the time of engineering. As Microsoft Operating System(OS) evolved very fast, support for Windows 2000 (for server m/c) ended in July 13, 2010 & support for Windows XP (for Workstations) ended in April 2014. Microsoft, no longer provides security updates or technical support for these operating systems. Further, due to component obsolescence, M/s BHEL have phased out DPE-4E processors and withdrawn spares and service support since 2015. (Letter dated 09.09.2015 attached as Annexure-B). Therefore, availability of spares and service support is a constraint for safe and uninterrupted operation of unit. The upgradation of DCS controller & HMI of units will be upgraded through OEM (BHEL). This upgradation involves only obsele portion of complete system. The upgradation of system will enhance the reliability / safety and will overcome the obsele for next ten years. In view of the above, Hon'ble Commission may be pleased to allow the replacement of such asset on account of obsolescence of technology.				

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Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Protected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP included in col. 3	Un-discharged Liability included in col. 3	Cash basis included in col. 3	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
3	ClO2 System	750.00		750.00		26(1)(b) & 26(1)(d)	In the instant station, at present Chlorine gas is being dozed directly at various stages of water treatment to maintain water quality and to inhibit organic growth in the water retaining structures/ equipment such as clarifiers, storage tanks, cooling towers, condenser tubes & piping etc. Chlorine dosing is done from chlorine stored in cylinders/ tonners. Chlorine gas is very hazardous and may prove fatal in case of leakage; handling and storage of same involves risk to the life of public at large. In the interest of public safety the chlorine dosing system is now being replaced by Chlorine Dioxide (ClO2) system, which is much safer and less hazardous than chlorine. In the proposed scheme ClO2 shall be produced on site by use of commercial grade HCl and sodium chlorite. As ClO2 is generated at site, avoids handling and storage risk. Further, at Kudgi NTPC project Department of Factories, Boiler, Industrial Safety and Health, Govt of Karnataka has asked NTPC to replace the highly hazardous gas chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Daripalli Station has asked NTPC to explore the possibility of installing ClO2 system instead of Chlorine gas system (Relevant documents is attached at Annexure-C). For safety of public NTPC is replacing the chlorination system with ClO2 system. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b) & 26(1)(d).	
Total (A)		7350.00	0.00	7350.00	0.00			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
Total (B)		0.00	0.00	0.00	0.00			
Total Add. Cap. Claimed (A+B)		7,350.00	-	7,350.00	-			

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(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited		Amount in Rs Lakh		Admitted Cost by the Commission, if any
Name of the Generating Station		Kahngoon Super Thermal power Station Stage-II		9		
COD		3/20/2010		8		9
For Financial Year		2023-24		8		
Sl. No.	Head of Work /Equipment	Actual basis as per ICAAP	ACE Claimed (Actual / Projected)	Regulations under which claimed	Justification	Admitted Cost
1	2	3	4	5	6	7
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate						
1	Ash Dyke/ash related works	8000.00		25(1)(c) & 25(1)(e)	Justification is provided at sr no 01 of Form 9A 2019-20	
2	MGR Transportation system upto- Hurra-C Mines	5000.00	5000.00	25(1) & 76	Hon'ble Commission vide order dated 21.01.2017 in petition no 283/GT/2014 at para 40, pages 23 has granted liberty to claim the expenditure related with MGR of Hurra-C mines at the time of truing-up of tariff of this generating station as per actual status. Petitioner has capitalized some of the works related with MGR Hurra-C Mines in tariff period 2014-19 and claimed in true up petition for 2014-19. However, further expenditure could not be done due to some land related issues. It is further submitted that that depending upon the status of works, it is envisaged that this expenditure towards development of MGR for transportation of coal from linked mines of Hurra (C) may be required in tariff period 2019-24. To match with the development of ECL coal mines, petitioner has postpond the expenditure in the year 2023-24. In view of the above, Hon'ble Commission may be pleased to allow the expenditure and grant the liberty to claim the said works on completion and capitalization, as prayed above.	
3	Land for MGR system for Hurra-C Mines	4000.00	4000.00	25(1) & 76	Hon'ble Commission vide order dated 26.09.2017 in review petition (13/RP/2017) in main order dt 21.01.2017 (petition 283/2014) has given liberty to claim MGR related work in tariff period 2014-19. Petitioner has capitalized some of the works related with MGR Land in tariff period 2014-19 and claimed in true up petition for 2014-19. However, further expenditure could not be done due to some land related issues. It is further submitted that that depending upon the status of works, it is envisaged that the requirement of land for development of MGR for transportation of coal from linked mines of Hurra (C) may be required in the year 2023-24. Presently, petitioner has given the compensation and physical position of land is in process. In view of the above, Hon'ble Commission may be pleased to allow the expenditure and grant the liberty to claim the said works on completion and capitalization as prayed above.	
4	Upgradation of DCS Controllers and HMI	712.00	712.00	25(2)(c)	Justification is provided at sr no 02 of Form 9A 2022-23	
5	CO2 System	760	760	25(1)(b) & 26(1)(d)	Justification is provided at sr no 03 of Form 9A 2022-23	
Total (A)		18472.00	18472.00	0.00	Average rate of Interest	
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest						
Total (B)		0.00	0.00	0.00		
Total Add. Cap. Claimed		18,472.00	18,472.00	-		

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Name of the Petitioner: **NTPC Limited**
 Name of the Generating Station: **Kahalgaon Super Thermal power Station Stage-II**
 Date of Commercial Operation: **3/20/2010**

Financial Year (Starting from COD)1	Actual					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

Note:

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-7 or 8 whichever is relevant.

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(Petitioner)

Calculation of Depreciation

Name of the Company :		NTPC Limited		
Name of the Power Station :		Kahalgaon Super Thermal power Station Stage-II		
(Amount in Rs Lakh)				
Sl.No.	Name of the Assets I	Gross Block as on 31.04.2019 as on COD	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
1	2	3	4	5= Col.3 X Col.4
1	Plant and machinery	517560.78	5.28	27327.21
2	Freehold Land	152.12	0.00	0.00
3	Roads, bridges, culverts & helipad	5716.59	3.34	190.93
4	Main Plant Buildings	34509.36	3.34	1152.61
5	Other Buildings	11858.61	3.34	396.08
6	Water supply, drainage & sewerage	5271.92	5.28	278.36
7	MGR Track & Signalling System	20418.18	5.28	1078.08
8	Laboratory and workshop equipment	320.75	6.33	20.30
9	Construction equipment	544.27	5.28	28.74
10	Electrical Installations	1014.19	5.28	53.55
11	Vehicles including speedboats-P	23.59	9.50	2.24
12	Furniture and fixtures- Plant	1790.02	6.33	113.31
13	Satellite Communication System	7.14	15.00	1.07
14	EDP, WP machines & SATCOM equipment	1330.25	15.00	199.54
15	Other Office Equipments	1092.92	6.33	69.18
16	Hospital Equipment	101.40	6.33	6.42
17	Communication equipment	83.55	6.33	5.29
18	Software	165.95	33.33	55.31
19	Capital Spares	10201.52	5.28	538.64
	TOTAL	612163.12		31516.86
	Weighted Average Rate of Depreciation (%)			5.148

Statement of Depreciation

Name of the Company :		NTPC Limited							
Name of the Power Station :		Kahalgaoon Super Thermal power Station Stage-II							
		(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	555025.44	555,695.69	560,495.69	561,836.69	567,063.69	574,413.69		
2	Closing Capital Cost	555695.68	560,495.69	561,836.69	567,063.69	574,413.69	592,885.69		
3	Average Capital Cost	555360.56	558,095.69	561,166.19	564,450.19	570,738.69	583,649.69		
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	131.70	131.70	131.70	131.70	131.70	131.70		
5	Rate of depreciation	5.184	5.148	5.148	5.148	5.148	5.148		
6	Depreciable value	499,705.97	502,167.59	504,931.04	507,886.64	513,546.29	525,166.19		
7	Balance useful life at the beginning of the period	16.02	15.02	14.02	13.02	12.02	11.02		
8	Remaining depreciable value	256,885.26	230,600.86	204,633.54	178,700.31	155,302.06	134,001.66		
9	Depreciation (for the period)	0.00	28,730.77	28,888.84	29,057.90	29,220.30	29,382.74		
10	Depreciation (annualised)	28,789.37	28,730.77	28,888.84	29,057.90	29,220.30	29,382.74		
11	Cumulative depreciation at the end of the period		300,297.50	329,186.33	358,244.23	387,164.53	416,139.27		
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	2.93	-	-	-	-	-		
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	46.25	-	-	-	-	-		
15	Net Cumulative depreciation at the end of the period after adjustments	271,566.73	300,297.50	329,186.33	358,244.23	387,164.53	416,139.27		

*Shall be provided at the time of true up.

(Petitioner)

Calculation of Interest on Actual Loans¹

FORM-13

Name of the Company
Name of the Power StationNTPC Limited
Kahalgaon Super Thermal Power Project-II

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2	3	4	5	6	7
1 LIC of India-III - T-1 D-1						
Gross loan - Opening		8500.00	8500.00	8500.00	8500.00	8500.00
Cumulative repayments of Loans upto previous period		5951.19	6517.97	7084.75	7651.53	8218.31
Net loan - Opening		2548.81	1982.03	1415.25	848.47	281.69
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		2548.81	1982.03	1415.25	848.47	281.69
Repayments of Loans during the period		566.78	566.78	566.78	566.78	281.69
Net loan - Closing		1982.03	1415.25	848.47	281.69	0.00
Average Net Loan		2265.42	1698.64	1131.86	565.08	140.85
Rate of Interest on Loan		6.5868%	6.5868%	6.5868%	6.5868%	6.5868%
Interest on Loan Annualised		149.22	111.89	74.55	37.22	9.28
2 Punjab National Bank-III						
Gross loan - Opening		1714.00	1714.00	1714.00	1714.00	1714.00
Cumulative repayments of Loans upto previous period		0.00	0.00	0.00	0.00	0.00
Net loan - Opening		1714.00	1714.00	1714.00	1714.00	1714.00
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		1714.00	1714.00	1714.00	1714.00	1714.00
Repayments of Loans during the period		0.00	0.00	0.00	0.00	0.00
Net loan - Closing		1714.00	1714.00	1714.00	1714.00	1714.00
Average Net Loan		1714.00	1714.00	1714.00	1714.00	1714.00
Rate of Interest on Loan		8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
Interest on Loan Annualised		142.26	142.26	142.26	142.26	142.26
3 PFC V T-1 D-1						
Gross loan - Opening		4000.00	4000.00	4000.00	4000.00	4000.00
Cumulative repayments of Loans upto previous period		1916.67	2250.00	2583.33	2916.67	3250.00
Net loan - Opening		2083.33	1750.00	1416.67	1083.33	750.00
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		2083.33	1750.00	1416.67	1083.33	750.00
Repayments of Loans during the period		333.33	333.33	333.33	333.33	333.33
Net loan - Closing		1750.00	1416.67	1083.33	750.00	416.67
Average Net Loan		1916.67	1583.33	1250.00	916.67	583.33
Rate of Interest on Loan		9.9400%	9.9400%	9.9400%	9.9400%	9.9400%
Interest on Loan Annualised		190.52	157.38	124.25	91.12	57.98
4 PFC V (T1 D22)						
Gross loan - Opening		2000.00	2000.00	2000.00	2000.00	2000.00
Cumulative repayments of Loans upto previous period		958.33	1125.00	1291.67	1458.33	1625.00
Net loan - Opening		1041.67	875.00	708.33	541.67	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		1041.67	875.00	708.33	541.67	375.00
Repayments of Loans during the period		166.67	166.67	166.67	166.67	166.67
Net loan - Closing		875.00	708.33	541.67	375.00	208.33
Average Net Loan		958.33	791.67	625.00	458.33	291.67
Rate of Interest on Loan		7.6200%	7.6200%	7.6200%	7.6200%	7.6200%
Interest on Loan Annualised		73.03	60.33	47.63	34.93	22.23

Calculation of Interest on Actual Loans¹

FORM-13

Name of the Company
Name of the Power Station

NTPC Limited
Kahalgaoon Super Thermal Power Project-II

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2	3	4	5	6	7
5 PFC V (T1 D31)						
Gross loan - Opening		1500.00	1500.00	1500.00	1500.00	1500.00
Cumulative repayments of Loans upto previous period		718.75	843.75	968.75	1093.75	1218.75
Net loan - Opening		781.25	656.25	531.25	406.25	281.25
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		781.25	656.25	531.25	406.25	281.25
Repayments of Loans during the period		125.00	125.00	125.00	125.00	125.00
Net loan - Closing		656.25	531.25	406.25	281.25	156.25
Average Net Loan		718.75	593.75	468.75	343.75	218.75
Rate of Interest on Loan		7.4400%	7.4400%	7.4400%	7.4400%	7.4400%
Interest on Loan Annualised		53.48	44.18	34.88	25.58	16.28
6 PFC V (T1 D33)						
Gross loan - Opening		800.00	800.00	800.00	800.00	800.00
Cumulative repayments of Loans upto previous period		383.33	450.00	516.67	583.33	650.00
Net loan - Opening		416.67	350.00	283.33	216.67	150.00
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		416.67	350.00	283.33	216.67	150.00
Repayments of Loans during the period		66.67	66.67	66.67	66.67	66.67
Net loan - Closing		350.00	283.33	216.67	150.00	83.33
Average Net Loan		383.33	316.67	250.00	183.33	116.67
Rate of Interest on Loan		7.8300%	7.8300%	7.8300%	7.8300%	7.8300%
Interest on Loan Annualised		30.02	24.80	19.58	14.36	9.14
7 PFC V (T1 D37)						
Gross loan - Opening		1500.00	1500.00	1500.00	1500.00	1500.00
Cumulative repayments of Loans upto previous period		718.75	843.75	968.75	1093.75	1218.75
Net loan - Opening		781.25	656.25	531.25	406.25	281.25
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		781.25	656.25	531.25	406.25	281.25
Repayments of Loans during the period		125.00	125.00	125.00	125.00	125.00
Net loan - Closing		656.25	531.25	406.25	281.25	156.25
Average Net Loan		718.75	593.75	468.75	343.75	218.75
Rate of Interest on Loan		8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
Interest on Loan Annualised		59.30	48.98	38.67	28.36	18.05
8 HDFC Bank Limited - II (T1 D4)						
Gross loan - Opening		1500.00	1500.00	1500.00	1500.00	1500.00
Cumulative repayments of Loans upto previous period		1071.43	1285.71	1500.00	1500.00	1500.00
Net loan - Opening		428.57	214.29	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		428.57	214.29	0.00	0.00	0.00
Repayments of Loans during the period		214.29	214.29	0.00	0.00	0.00
Net loan - Closing		214.29	0.00	0.00	0.00	0.00
Average Net Loan		321.43	107.14	0.00	0.00	0.00
Rate of Interest on Loan		8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
Interest on Loan Annualised		27.16	9.05	0.00	0.00	0.00

Calculation of Interest on Actual Loans¹

FORM-13

Name of the Company
Name of the Power Station

NTPC Limited
Kahalgaon Super Thermal Power Project-II

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2	3	4	5	6	7
9 Vijaya Bank - IV (T-1 D1)						
Gross loan - Opening		11000.00	11000.00	11000.00	11000.00	11000.00
Cumulative repayments of Loans upto previous period		8642.86	10214.29	11000.00	11000.00	11000.00
Net loan - Opening		2357.14	785.71	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		2357.14	785.71	0.00	0.00	0.00
Repayments of Loans during the period		1571.43	785.71	0.00	0.00	0.00
Net loan - Closing		785.71	0.00	0.00	0.00	0.00
Average Net Loan		1571.43	392.86	0.00	0.00	0.00
Rate of Interest on Loan		8.4000%	8.4000%	8.4000%	8.4000%	8.4000%
Interest on Loan Annualised		132.00	33.00	0.00	0.00	0.00
10 Vijaya Bank - IV (T-1 D3)						
Gross loan - Opening		5000.00	5000.00	5000.00	5000.00	5000.00
Cumulative repayments of Loans upto previous period		3928.57	4642.86	5000.00	5000.00	5000.00
Net loan - Opening		1071.43	357.14	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		1071.43	357.14	0.00	0.00	0.00
Repayments of Loans during the period		714.29	357.14	0.00	0.00	0.00
Net loan - Closing		357.14	0.00	0.00	0.00	0.00
Average Net Loan		714.29	178.57	0.00	0.00	0.00
Rate of Interest on Loan		8.4000%	8.4000%	8.4000%	8.4000%	8.4000%
Interest on Loan Annualised		60.00	15.00	0.00	0.00	0.00
11 Bonds XXI Series						
Gross loan - Opening		18500.00	18500.00	18500.00	18500.00	18500.00
Cumulative repayments of Loans upto previous period		16650.00	18500.00	18500.00	18500.00	18500.00
Net loan - Opening		1850.00	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		1850.00	0.00	0.00	0.00	0.00
Repayments of Loans during the period		1850.00	0.00	0.00	0.00	0.00
Net loan - Closing		0.00	0.00	0.00	0.00	0.00
Average Net Loan		925.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan		7.7425%	7.7425%	7.7425%	7.7425%	7.7425%
Interest on Loan Annualised		71.62	0.00	0.00	0.00	0.00
12 Bonds XXIII Series						
Gross loan - Opening		1800.00	1800.00	1800.00	1800.00	1800.00
Cumulative repayments of Loans upto previous period		1440.00	1620.00	1800.00	1800.00	1800.00
Net loan - Opening		360.00	180.00	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		360.00	180.00	0.00	0.00	0.00
Repayments of Loans during the period		180.00	180.00	0.00	0.00	0.00
Net loan - Closing		180.00	0.00	0.00	0.00	0.00
Average Net Loan		270.00	90.00	0.00	0.00	0.00
Rate of Interest on Loan		8.4096%	8.4096%	8.4096%	8.4096%	8.4096%
Interest on Loan Annualised		22.71	7.57	0.00	0.00	0.00

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Calculation of Interest on Actual Loans¹

FORM-13

Name of the Company
Name of the Power Station

NTPC Limited
Kahalgaon Super Thermal Power Project-II

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2	3	4	5	6	7
13 Bonds XXIV Series						
Gross loan - Opening		6000.00	6000.00	6000.00	6000.00	6000.00
Cumulative repayments of Loans upto previous period		4800.00	5400.00	6000.00	6000.00	6000.00
Net loan - Opening		1200.00	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		1200.00	600.00	0.00	0.00	0.00
Repayments of Loans during the period		600.00	600.00	0.00	0.00	0.00
Net loan - Closing		600.00	0.00	0.00	0.00	0.00
Average Net Loan		900.00	300.00	0.00	0.00	0.00
Rate of Interest on Loan		8.6377%	8.6377%	8.6377%	8.6377%	8.6377%
Interest on Loan Annualised		77.74	25.91	0.00	0.00	0.00
14 Bonds 54 series						
Gross loan - Opening		1800.00	1800.00	1800.00	1800.00	1800.00
Cumulative repayments of Loans upto previous period		0.00	0.00	0.00	0.00	360.00
Net loan - Opening		1800.00	1800.00	1800.00	1800.00	1440.00
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		1800.00	1800.00	1800.00	1800.00	1440.00
Repayments of Loans during the period		0.00	0.00	0.00	360.00	720.00
Net loan - Closing		1800.00	1800.00	1800.00	1440.00	720.00
Average Net Loan		1800.00	1800.00	1800.00	1620.00	1080.00
Rate of Interest on Loan		8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
Interest on Loan Annualised		153.36	153.36	153.36	138.02	92.02
15 Bonds 66 Series						
Gross loan - Opening		600.00	600.00	600.00	600.00	600.00
Cumulative repayments of Loans upto previous period		0.00	0.00	0.00	0.00	0.00
Net loan - Opening		600.00	600.00	600.00	600.00	600.00
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	600.00	600.00	600.00
Repayments of Loans during the period		0.00	0.00	0.00	0.00	0.00
Net loan - Closing		600.00	600.00	600.00	600.00	600.00
Average Net Loan		600.00	600.00	600.00	600.00	600.00
Rate of Interest on Loan		7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
Interest on Loan Annualised		44.40	44.40	44.40	44.40	44.40
TOTAL LOAN						
Gross loan - Opening		66214.00	66214.00	66214.00	66214.00	66214.00
Cumulative repayments of Loans upto previous period		47179.88	53693.33	57213.91	58597.36	60340.80
Net loan - Opening		19034.12	12520.67	9000.09	7616.64	5873.20
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		19034.12	12520.67	9000.09	7616.64	5873.20
Repayments of Loans during the period		6513.45	3520.58	1383.45	1743.45	1818.36
Net loan - Closing		12520.67	9000.09	7616.64	5873.20	4054.84
Average Net Loan		15777.40	10760.38	8308.37	6744.92	4964.02
Rate of Interest on Loan		8.1559%	8.1606%	8.1794%	8.2468%	8.2921%
Interest on Loan Annualised		1286.79	878.11	679.57	556.24	411.62

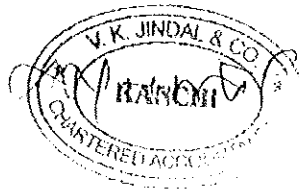
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Note:-

1) LIC III Rate of interest includes upfront fees of 0.0158% (i.e. 0.20%*1.103%/14years).

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DETAILS /INFORMATION TO BE SUBMITTED i.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES (In case of Oil)				
		FORM-15 A		
NAME OF THE POWER STATION :- KAHALGAON		Oct-18	Oct-18	Oct-18
MONTH :-		Oct-18	HFO	LDO
		Col 1	Col 2	
Sl	Particulars	Unit	Total	Total
1	Opening Stock of Oil	KL	5504.424	130.219
2	Value of Opening Stock	Rs	218537434.47	7313784.86
3	Quantity of Oil supplied made by Oil Company	KL	0.0000	40.00
4	Adjustment (+/-) in quantity supplied made Coal Company	KL	0.00	0.00
5	Oil supplied by Oil Company (3+4)	KL	0.00	40.00
6	Normative transit & handling losses	KL	0.00	0.00
7	Net Oil supplied (5-6)	KL	0.00	40.00
8	Amount charged by the Oil Company	Rs	0.00	2281687.28
9	Adjustment (+/-) in amount Charged by Oil Company	Rs	0.00	0.00
10	Total amount charged (8+9)	Rs	0.00	2281687.28
11	Tranportation charges by rail/ship/road transport	Rs	0.00	0.00
12	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0.00	0.00
13	Demurrage charges if any	Rs	0.00	0.00
14	Total TPT charges (11+/-12-13)	Rs	0.00	0.00
15	Others /E.Tax	Rs	0.00	0.00
16	Total amount charged for Oil supplied including transportation (10+15+16)	Rs	0.00	2281687.28
17	Weighted Average GCV of Oil	Kcal/Kg	9896	9590
18	Quantity of Oil at the Station for the month (1+7)	KL	5504.42	170.22
19	Total amount charged for Oil (2+16)	Rs	218537434.47	9595472.14
20	Landed cost of Oil (19/18)	Rs/KL	39702.14	56371.33
21	Quantity of Oil Consumed for ST-I	KL	111.36	
	Quantity of Oil Consumed for ST-II	KL	512.50	28.00
22	Value of Oil Consumed (20*21)	Rs	24768577.06	1578397.24
23	Closing Stock of Oil (18-21)	KL	4880.56	142.22
24	Value of Closing Stock (19-22)	Rs	193768857.41	8017074.90
Details of information to be submitted in respect of Fuel for Consumption of energy charges				
Station:- KAHALGAON				
Month :-				
		Oct-18	HFO	LDO
Sl	Particulars	Unit	Stage -I	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	56371.33
2	Usage Quantity for the month	KL	111.36	0.00
3	Weighted average rate	Rs/KL	39702.14	
4	Weighted average GCV of Oil	kcal/Litr	9896	
Sl	Particulars	Unit	Stage -II	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	56371.33
2	Usage Quantity for the month	KL	512.50	28.00
3	Weighted average rate	Rs/KL	40565.67	
4	Weighted average GCV of Oil	kcal/Litr	9880	



Anindya Sengupta
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 SSC ER-1: Barh

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DETAILS /INFORMATION TO BE SUBMITTED I.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES (In case of Oil)				
		FORM-15 A		
NAME OF THE POWER STATION :- KAHALGAON			Nov-18	Nov-18
MONTH :-		Nov-18	HFO	LDO
Sl	Particulars	Unit	Col 1 Total	Col 2 Total
1	Opening Stock of Oil	KL	4880.564	142.219
2	Value of Opening Stock	Rs	193768857.41	8017074.90
3	Quantity of Oil supplied made by Oil Company	KL	0.0000	0.00
4	Adjustment (+/-) in quantity supplied made Coal Company	KL	0.00	0.00
5	Oil supplied by Oil Company (3+4)	KL	0.00	0.00
6	Normative transit & handling losses	KL	0.00	0.00
7	Net Oil supplied (5-6)	KL	0.00	0.00
8	Amount charged by the Oil Company	Rs	0.00	0.00
9	Adjustment (+/-) in amount Charged by Oil Company	Rs	0.00	0.00
10	Total amount charged (8+9)	Rs	0.00	0.00
11	Tranportation charges by rail/ship/road transport	Rs	0.00	0.00
12	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0.00	0.00
13	Demurrage charges if any	Rs	0.00	0.00
14	Total TPT charges (11+/-12-13)	Rs	0.00	0.00
15	Oihers /E.Tax	Rs	0.00	212618.72
16	Total amount charged for Oil supplied including transportation (10+15+16)	Rs	0.00	212618.72
17	Weighted Average GCV of Oil	Kcal/Kg	9865	9576
18	Quantity of Oil at the Station for the month (1+7)	KL	4880.56	142.22
19	Total amount charged for Oil (2+16)	Rs	193768857.41	8229693.62
20	Landed cost of Oil (19/18)	Rs/KL	39702.14	57866.34
21	Quantity of Oil Consumed for ST-I	KL	25.00	
22	Value of Oil Consumed (20*21)	Rs	116.00	0.00
23	Closing Stock of Oil (18-21)	KL	4739.56	142.22
24	Value of Closing Stock (19-22)	Rs	188170855.67	8229693.62
Details of information to be submitted in respect of Fuel for Consumption of energy charges				
Station:- KAHALGAON				
Month :-				
		Nov-18	HFO	LDO
Sl	Particulars	Unit	Stage -I	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	57866.34
2	Usage Quantity for the month	KL	25.00	0.00
3	Weighted average rate	Rs/KL	39702.14	
4	Weighted average GCV of Oil	kcal/Litr	9865	
		Unit	Stage -II	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	57866.34
2	Usage Quantity for the month	KL	116.00	0.00
3	Weighted average rate	Rs/KL	39702.14	
4	Weighted average GCV of Oil	kcal/Litr	9865	

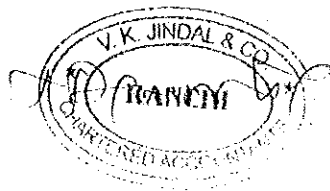


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 Anindya Sengupta
 AGM (F&A)
 SSC ER-1: Barh

DETAILS / INFORMATION TO BE SUBMITTED i.r.o FUEL				
FOR COMPUTATION OF ENERGY CHARGES (In case of Oil)				
		FORM-15 A		
	NAME OF THE POWER STATION :- KAHALGAON		Dec-18	Dec-18
	MONTH :-	Dec-18	HFO	LDO
			Col 1	Col 2
Sl	Particulars	Unit	Total	Total
1	Opening Stock of Oil	KL	4739.564	142.219
2	Value of Opening Stock	Rs	188170855.67	8229693.62
3	Quantity of Oil supplied made by Oil Company	KL	0.0000	0.00
4	Adjustment (+/-) in quantity supplied made Coal Company	KL	0.00	0.00
5	Oil supplied by Oil Company (3+4)	KL	0.00	0.00
6	Normative transit & handling losses	KL	0.00	0.00
7	Net Oil supplied (5-6)	KL	0.00	0.00
8	Amount charged by the Oil Company	Rs	0.00	0.00
9	Adjustment (+/-) in amount Charged by Oil Company	Rs	0.00	0.00
10	Total amount charged (8+9)	Rs	0.00	0.00
11	Tranportation charges by rail/ship/road transport	Rs	0.00	0.00
12	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0.00	0.00
13	Demurrage charges if any	Rs	0.00	0.00
14	Total TPT charges (11+/-12-13)	Rs	0.00	0.00
15	Others /E.Tax	Rs	0.00	0.00
16	Total amount charged for Oil supplied including transportation (10+15+16)	Rs	0.00	0.00
17	Weighted Average GCV of Oil	Kcal/Kg	9859	9563
18	Quantity of Oil at the Station for the month (1+7)	KL	4739.56	142.22
19	Total amount charged for Oil (2+16)	Rs	188170855.67	8229693.62
20	Landed cost of Oil (19/18)	Rs/KL	39702.14	57866.34
21	Quantity of Oil Consumed for ST-I	KL	106.10	
	Quantity of Oil Consumed for ST-II	KL	137.00	7.00
22	Value of Oil Consumed (20*21)	Rs	9651590.23	405064.38
23	Closing Stock of Oil (18-21)	KL	4496.46	135.22
24	Value of Closing Stock (19-22)	Rs	178519265.44	7824629.24

Details of information to be submitted in respect of Fuel for Consumption of energy charges

	Station:- KAHALGAON			
	Month :-	Dec-18	HFO	LDO
Sl	Particulars	Unit	Stage -I	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	57866.34
2	Usage Quantity for the month	KL	106.10	0.00
3	Weighted average rate	Rs/KL	39702.14	
4	Weighted average GCV of Oil	kcal/Litr	9859	
Sl	Particulars	Unit	Stage -II	
1	Landed Cost of Oil at Sl No 20	Rs/KL	39702.14	57866.34
2	Usage Quantity for the month	KL	137.00	7.00
3	Weighted average rate	Rs/KL	40585.12	
4	Weighted average GCV of Oil	kcal/Litr	9845	



Anindya Sengupta
 Anindya Sengupta
 AGM (F&A)
 SSC ER-1, Barh

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For Coal Stations						Annexure B
Details/information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of tariff) Regulation 2014						
DETAILS /INFORMATION TO BE SUBMITTED I.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES						
NAME OF THE PETITIONER :- NTPC LTD						
NAME OF THE GENERATING STATION :- KAHALGAON Stage-II						
MONTH :- Oct-18						
Sl no	Particulars	Unit	Domestic Coal		E-Auction coal	Import Coal
			Supply by MGR	Supply by Rail		
1	Quantity of Coal supplied by the Coal Company inclusive of opening stock of coal	MT	636348.87	385100.49		0.00
2	Adjustment (+/-) in quantity supplied by the Coal Company	MT	-579.11			
3	Coal supplied by Coal Company inclusive of opening stock of coal(1+2)	MT	635769.76	385100.49		0.00
4	Normative transit & handling losses	MT	-1272.70	-2649.36		0.00
5	Net coal supplied inclusive of opening stock of coal (3-4)	MT	634497.06	382451.13		0.00
6	Amount charged by the coal Company inclusive of value of opening stock of coal'	Rs	1427697425	1147178176		0
7	Adjustment (+/-) in amount Charged by coal Company	Rs	0	0		0
8	Total amount charged inclusive of opening stock of coal (6+7)	Rs	1427697425	1147178176		0
9	Transportation charges by rail/ship/road transport	Rs	0	80876073		0
10	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0	0		0
11	Demurrage charges if any	Rs	0	0		0
12	Cost of diesel in tpt coal through mgr system	Rs	11134997			0
13	Total Transportation charges (9+/-10-11+12)	Rs	11134997	80876073		0
13A	Others (Stone Picking charges, Loco driver's salary, Sampling Charges, etc.)#	Rs		39278244		0
14	Total amount charged for Coal supplied including transportation (8+13+13A)	Rs	1438832422	1267332492	0	0
15	Landed Cost of Coal	Rs/MT	2661.06			0.00
16	Blending Ratio	%		0.00		
17	Weighted average cost of coal	Rs/MT		2661.06		
18	GCV of Domestic Coal as per bill of coal co.	kcal/Kg (Equilibrated Basis)		3734		
19	GCV of Imported Coal as per bill of coal co.	kcal/Kg (Air Dried Basis)		0		
20	Weighted average GCV of Coal as Billed	kcal/Kg		3734		
21	GCV of Domestic Coal as received at Station	kcal/Kg (TM Basis)		3287		
22	GCV of Import Coal as received at Station	kcal/Kg (TM Basis)		0		
23	Weighted average GCV of Coal As Received at station	kcal/Kg (TM Basis)		3287		

Notes:

Additional data



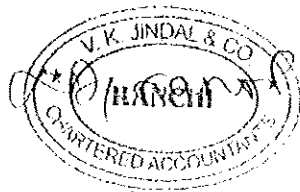
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AGM (F&A)
SSC ER-1; Barh

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For Coal Stations							Annexure B
Details/information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of tariff) Regulation 2014							
DETAILS /INFORMATION TO BE SUBMITTED I.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES							
NAME OF THE PETITIONER :- NTPC LTD							
NAME OF THE GENERATING STATION :- KAHALGAON Stage-II							
MONTH :- Nov-18							
Sl no	Particulars	Unit	Domestic Coal		E-Auction coal	Import Coal	
			Suppl. by MGR	Suppl. by Rail			
1	Quantity of Coal supplied by the Coal Company inclusive of opening stock of coal	MT	781445.00	313428.59		0.00	
2	Adjustment (+/-) in quantity supplied by the Coal Company	MT	-600.00				
3	Coal supplied by Coal Company inclusive of opening stock of coal(1+2)	MT	780845.00	313428.59		0.00	
4	Normative transit & handling losses	MT	-1562.89	-2507.43		0.00	
5	Net coal supplied inclusive of opening stock of coal (3-4)	MT	779282.11	310921.16		0.00	
6	Amount charged by the coal Company inclusive of value of opening stock of coal*	Rs	1700147758	1011207523		0	
7	Adjustment (+/-) in amount Charged by coal Company	Rs	0	0		0	
8	Total amount charged inclusive of opening stock of coal (6+7)	Rs	1700147758	1011207523		0	
9	Tranportation charges by rail/ship/road transport	Rs	0	134520164		0	
10	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0	0		0	
11	Demurrage charges if any	Rs	0	0		0	
12	Cost of diesel in ipt coal through mgr system	Rs	11134997			0	
13	Total Trasportation charges (9+/-10-11+12)	Rs	11134997	134520164		0	
13A	Others (Stone Picking charges, Loco driver's salary, Sampling Charges, etc.)#	Rs		37760894		0	
14	Total amount charged for Coal supplied including transportation (8+13+13A)	Rs	1711282754	1183488582	0	0	
15	Landed Cost of Coal	Rs/MT	2655.26			0.00	
16	Blending Ratio	%		0.00			
17	Weighted average cost of coal	Rs/MT		2655.26			
18	GCV of Domestic Coal as per bill of coal co.	kcal/Kg (Equilibrated Basis)		3720			
19	GCV of Imported Coal as per bill of coal co.	kcal/Kg (Air Dried Basis)		0			
20	Weighted average GCV of Coal as Billed	kcal/Kg		3720			
21	GCV of Domestic Coal as received at Station	kcal/Kg (TM Basis)		3225			
22	GCV of Import Coal as received at Station	kcal/Kg (TM Basis)		0			
23	Weighted average GCV of Coal As Received at station	kcal/Kg (TM Basis)		3225			

Notes:

Additional data



Anindya Sengupta

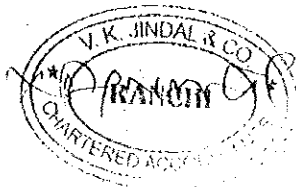
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AGM (F&A)
SSC ER-1, Barh

For Coal Stations						Annexure B
Details information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms & conditions of tariff) Regulation 2014						
DETAILS INFORMATION TO BE SUBMITTED I.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES						
NAME OF THE PETITIONER :- NTPC LTD						
NAME OF THE GENERATING STATION :- KAHALGAON			Stage-II			
MONTH :-		Dec-18		Domestic Coal		Import Coal
				Suppl. by MGR	Suppl. by Rail	E-Auction coal
Sl no	Particulars	Unit				
1	Quantity of Coal supplied by the Coal Company inclusive of opening stock of coal	MT	838154.80	406341.10		0.00
2	Adjustment (+/-) in quantity supplied by the Coal Company	MT	-1248.23			
3	Coal supplied by Coal Company inclusive of opening stock of coal(1+2)	MT	836906.57	406341.10		0.00
4	Normative transit & handling losses	MT	-1676.31	-3075.36		0.00
5	Net coal supplied inclusive of opening stock of coal (3-4)	MT	835230.26	403265.74		0.00
6	Amount charged by the coal Company inclusive of value of opening stock of coal*	Rs	2071014472	1059709615		0
7	Adjustment (+/-) in amount Charged by coal Company	Rs	0	0		0
8	Total amount charged inclusive of opening stock of coal (6+7)	Rs	2071014472	1059709615		0
9	Transportation charges by rail/ship/road transport	Rs	0	154866807		0
10	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0	0		0
11	Demurrage charges if any	Rs	0	0		0
12	Cost of diesel in tpt coal through mgr system	Rs	17291113			0
13	Total Transportation charges (9+/-10-11+12)	Rs	17291113	154866807		0
13A	Others (Stone Picking charges, Loco driver's salary, Sampling Charges, etc.)#	Rs		35597965		0
14	Total amount charged for Coal supplied including transportation (8+13+13A)	Rs	2088305585	1250174387	0	0
15	Landed Cost of Coal	Rs/MT	2695.59			0.00
16	Blending Ratio	%	0.00			0.00
17	Weighted average cost of coal	Rs/MT	2695.59			
18	GCV of Domestic Coal as per bill of coal co.	kcal/Kg (Equilibrated Basis)	3698			
19	GCV of Imported Coal as per bill of coal co.	kcal/Kg (Air Dried Basis)	0			
20	Weighted average GCV of Coal as Billed	kcal/Kg	3698			
21	GCV of Domestic Coal as received at Station	kcal/Kg (TM Basis)	3176			
22	GCV of Import Coal as received at Station	kcal/Kg (TM Basis)	0			
23	Weighted average GCV of Coal As Received at station	kcal/Kg (TM Basis)	3176			

Notes:

Additional data



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 SSCER-1: Barh

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Computation of Energy Charges

Form-15B

ADDITIONAL FORM

Name of the Company	NTPC Limited				
Name of the Power Station	Kahalgau Super Thermal power Station Stage-II				

	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 %	6.25	6.25	6.25	6.25	6.25
Heat Rate Kcal/Kwh	2,471.31	2,471.31	2,471.31	2,471.31	2,471.31

Computation of Variable Charges

1 Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) $= (Q_p)_n \times P_o$ 1.985

2 Heat Contribution from SFO / Alternate Fuel (H_p) $= (Os)_n \times (GCV)_o$ 4.931

3 Heat Contribution from coal (H_p) $= GHR \cdot H_o$ 2466.38

4 Specific Primary Fuel Consumption $(Qp)_n$ $= H_p / (GCV)_p$ 0.784

5 Rate of Energy charge from Primary Fuel (p/kwh) $(REC)_p$ 209.585

6 Rate of Energy charge ex-bus (p/kWh) $= ((REC)_a + (REC)_p) / (1-(AUX))$ 225.674

Price of fuel from Form-15/15A

Coal Cost (Rs./MT)	2671.95	2671.95	2671.95	2671.95	2671.95
Oil Cost (Rs./KL)	39702.14	39702.14	39702.14	39702.14	39702.14

Computation of Fuel Expenses for Calculation of IWC:

ESO in a year (MUs)	10499.63	10470.94	10470.94	10470.94	10499.625
ESO for 40 days (MUs)	1147.500	1147.500	1147.500	1147.50	1147.500
Cost of coal for 45 Days (Rs. Lakh)	25653.17	25653.17	25653.17	25653.17	25653.17
Cost of oil for 2 months (Rs. Lakh)	370.54	369.53	369.53	369.53	370.54
Energy Expenses for 45 days (Rs. Lakh)	29133.16	29133.16	29133.16	29133.16	29133.16

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	2695.59	2655.26	2661.06	2671.95
Wtd. Avg. GCV of Coal as received kCal/Kg	3176	3225	3287	3229.33
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg				3144.33
Sec. Oil				
Wtd. Avg. Price of Secondary Fuel Rs/KL	39702.14	39702.14	39702.14	39702.14
Wtd. Avg. GCV of Secondary Fuel kCal/L	9859.00	9865.00	9859.00	9861.00

PETITIONER

✓

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Kahalgaoon Super Thermal power Station Stage-II**Statement of Capital cost**
(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	01.04.2019		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	612163.11	11785.84	600377.27
	b) Amount of IDC in A(a) above	0		
	c) Amount of FC in A(a) above	0		
	d) Amount of FERV in A(a) above	92139.11		
	e) Amount of Hedging Cost in A(a) above	0		
	f) Amount of IEDC in A(a) above	0		
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
Kahalgaon Super Thermal power Station Stage-II**Statement of Capital Woks in Progress**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	01.04.2019		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	14332.50	6326.28	8006.22
	b) Amount of IDC in A(a) above	0		
	c) Amount of FC in A(a) above	0		
	d) Amount of FERV in A(a) above	0		
	e) Amount of Hedging Cost in A(a) above	0		
	f) Amount of IEDC in A(a) above	0		
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 :		Kahalgaon Super Thermal power Station Stage-II							
S. No.	Particulars	Existing	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
		2018-19	4	5	6	7	8		
1	2	3							
1	Gross Normative loan -- Opening	388,517.81	388,986.98	392,346.98	393,285.68	396,944.58	402,089.58		
2	Cumulative repayment of Normative loan up to previous year	241,823.81	270,595.65	299,326.42	328,215.25	357,273.15	370,193.45		
3	Net Normative loan -- Opening	146,694.00	118,391.33	93,020.57	65,070.43	39,671.44	31,896.13		
4	Add: Increase due to addition during the year / period	419.45	3,360.00	938.70	3,658.90	5,145.00	12,930.40		
5	Less: Decrease due to de-capitalisation during the year / period	-41.26	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	90.97	0.00	0.00	0.00	0.00	0.00		
8	Less: Repayment of Loan	28789.37	28,730.77	28,888.84	29,057.90	12,920.30	13,974.74		
9	Net Normative loan - Closing	118,415.05	93,020.57	65,070.43	39,671.44	31,896.13	30,851.79		
10	Average Normative loan	132,554.52	105,705.95	79,045.50	52,370.93	35,783.78	31,373.96		
11	Weighted average rate of interest	8.2305	8.1559	8.1606	8.1794	8.2468	8.2921		
12	Interest on Loan	10909.90	8621.30	6450.55	4283.62	2951.01	2601.56		

6/2/2023
(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :		NTPC Limited							
Name of the Power Station :		Kahalgaoon Super Thermal power Station Stage-II							
		(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	30,969.70	25653.17	25653.17	25653.17	25653.17	25653.17		
2	Cost of Main Secondary Fuel Oil	510.30	370.54	369.53	369.53	369.53	370.54		
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	2,756.91	3008.73	3126.98	3250.92	3380.77	3515.47		
6	Maintenance Spares	6,616.57	7220.95	7504.74	7802.22	8113.84	8437.12		
7	Receivables	62,314.80	43,208.38	43,200.92	43,166.54	41,226.20	41,580.06		
8	Total Working Capital	103168.28	79461.76	79855.34	80242.38	78743.50	79556.36		
9	Rate of Interest	13.50	12.0500	12.0500	12.0500	12.0500	12.0500		
10	Interest on Working Capital	13927.72	9575.14	9622.57	9669.21	9488.59	9586.54		

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Petitioner

Statement of Liability Flow

Name of the Company :

NTPC Limited
Kahalgaoon Super Thermal power Station

Name of the Power Station :

Stage-II

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Liability as on 31.03.2018
(1)	(2)	(3)	(4)	(5)
1	ERA INFRA	TG Civil (2X500MW)	2008-09	29,149,704.67
2	HSCL & others	Main Plant Civil (1X500MW)	2008-09	7,902,768.30
3	NPCC	Off Site Civil Works	2008-09	44,519,509.97
4	HSCL	Ash Dyke	2008-09	9,114,992.00
5	B H E L	SG & PCP (2X500MW)(Ph-I)	2008-09	359,232,164.33
6	B H E L	TG & PCP (2X500MW)(Ph-I)	2008-09	88,932,126.73
7	B H E L	SG & PCP (1X500MW)(Ph-II)	2008-09	356,285,044.00
8	B H E L	TG & PCP (1X500MW)(Ph-II)	2008-09	192,818,802.00
9	INDURE	Ash handling system	2008-09	1,547,091.82
10	NPCC LTD.	Residential Buildings (Qtrs.)		11,984,387.70
11	STAR ELECTRICALS	EXTERANAL ELECTRIFICATION OF STAG-2 AEEA OF TOWNSH		120,339.00
12	NPCC LTD.	Swearage & Stormwater Disposal System	2009-10	2,357,874.00
13	BABA PROJECTS PVT LTD	Contruction of Road Stg # 2	2010-11	6,935,863.00
14	Arun Kumar Yadav	"Fire fighting provisions for MGR; Vide CS:1006/3737".	2011-12	59,266.00
15	S K THAKUR	Pacm Paving Around Vidya Bhavan, Alaknanda Bhavan, Central School And Other Area In Township.(Cs:7232)	2011-12	16,278.00
16	ART-E-MIDE	WOODEN FLOORING OF BADMINTON COURT AT ALAKNANDA BHAWAN & VIKRAMSHILA CLUB	2011-12	288,946.00
17	CIVCON CONSTRUCTION PVT.LIMITED.	constn of under ground reservoir at pts.	2012-13	5,766,694.00
18	BAJAJ ELECTRICALS LTD	Procurement & Installation of high mast lighting under Stage - II	2012-13	24,690.00
19	HITACHI HOME & LIFE SOLUTIONS (I) LT	Air Condi of auditorium in the Adm. buil	2012-13	335,931.00
20	SUBHASH KUMAR YADAV	CONSTRUCTION OF THREE NOS. REST ROOMS CUM TOILETS AT DIFFERENT PLACES INSIDE THE PLANT AREA	2012-13	51,210.00
21	AJIT ARUN PANDEY	EXTENSION OF EXISTING SHOPS & OTHER WORK IN OLD SHOPPING CENTER AT PTS.(CS:7319).	2012-13	43,364.00
22	AMBE ENTERPRISE	Construction Of Scooter Shed, Security Post, Entrance Gate At Hospital Complex Including Pacm Pavement Near Gm Bunglow And Sewerage Pumping Station At Pts.(Cs:7159).	2012-13	84,922.00
23	B P CONSTRUCTION	Construction Of Roof Covering At D.M. Plant Stage-II Area And Construction Of Road & Drains In Nearby Area.(Cs:6936)	2012-13	1,320,998.00
24	HARE RAM YADAV	BALANCE SEWERAGE WORK OF INSIDE PLANT AREA.	2012-13	76,491.00

Statement of Liability Flow

**PART 1
FORM-S**

Name of the Company :

**NTPC Limited
Kahalgaon Super Thermal power Station
Stage-II**

Name of the Power Station :

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Liability as on 31.03.2018
(1)	(2)	(3)	(4)	(5)
25	Jupiterj Enterprises	CONSTRUCTION OF FOUNDATION OF FOOT OVER BRIDGE IN FRONT OF COAL BHAWAN	2012-13	19,456.00
26	KRISHAN MOHAN SINGH	CONSTRUCTION OF GARRAGE WITH MULTIPURPOSE HALL AT DAV AT PTS.	2012-13	57,418.00
27	Nawin Prasad Singh	EXTENSION OF VIP GUEST HOUSE "MANSAROVAR"	2012-13	337,806.00
28	RUNGTA ENTERPRISES	Construction of Road inside Plant area	2012-13	598,801.00
29	SATYENDRA KUMAR CONSTRUCTION	CONSTRUCTION OF 02 NOS. OVERHEAD WATER TANKS OF 450CU.M. EACH IN STAGE-II AREA OF PTS	2012-13	4,024,424.00
30	SATYENDRA KUMAR CONSTRUCTION	Balance work of Road, Drain, culvert, Footpath at Stage II, PTS	2012-13	8,563,032.00
31	SINHA BROTHERS	CONSTRUCTION OF EXECUTIVE TRAINEE HOSTEL AT TTS INCLUDING INTERNAL ELECTRIFICATION FOR NTPC KAHALGAON.	2012-13	641,780.00
32	SRI RAM ENTERPRISES	CONSTRUCTION OF BARRACK FOR CISF PERSONNEL.	2012-13	4,403,455.00
33	M P RAI	Construction Of Rcc Hume Pipe Culverts At MGR Service Road From Bridge No. 31 To 30, Except Bridge No. 31-A (Part-6) (Cs:7581).	2012-13	135,371.00
34	BABA PROJECTS PVT LTD	CONSTRUCTION OF RING ROAD BETWEEN GATE NO.03 TO MGR CROSSING AND STEEL YARD.(CS:7848).	2012-13	4,064,495.00
35	INTERNATIONAL GLASS HOUSE	Supply & Fixing of Structural Glazing, balance doors / windows/ ventilators etc. of main plant & SG area of Stage II, NTPC - Kahalgaon	2012-13	2,759,454.89
36	Civcon Construction PVT LTD	CONSTRUCTION OF PCC PAVEMENT IN THE TWO SIDES OF STAGE-II OAC.(CS:7663).	2012-13	2,295,555.00
37	Builttech Engineers	ACOUSTIC TREATMENT OF AUDITORIUM FOR EDC BUILDING AT TTS.(CS:7840).	2012-13	0.38
38	B P CONSTRUCTION	CONSTRUCTION OF WASTE MANAGEMENT SYSTEM FOR SEPARATION OF GRADABLE AND DEGRADABLE SOLID WASTE AT DISPOSAL AREA OF STAGE-II WITH INTERNAL ELECTRIFICATION.(CS:7762).	2012-13	1,529,677.00
39	SRI RAM ENTERPRISES	CONSTRUCTION OF MULTIPURPOSE / COMMUNITY CENTRE AT KAHALGAON,CS:7857.	2014-15	1,477,156.00
40	LOTUS CONSTRUCTION	CONSTRUCTION OF SECOND RAISING OF ASH DYKE LAGOON-III.C.	2014-15	73,595.00

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Signature

Statement of Liability Flow

PART 1
FORM-S

Name of the Company :

NTPC Limited
Kahalgaon Super Thermal power Station
Stage-II

Name of the Power Station :

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Liability as on 31.03.2018
(1)	(2)	(3)	(4)	(5)
41	FABERCON INDUSTRIES	Accoustic treatment of Multipurpose Hall / Community Centre at stage II	2014-15	502,323.00
42	Mather & Platt Pumps Ltd	PROCUREMENT OF SIX NOS. PUMPS AND MOTORS FOR WATER SUPPLY SYSTEM AT	2014-15	207,215.00
43	FABERCON INDUSTRIES	Sound System Work of Multipurpose Community Centre vide CS: 1003/4063.	2015-16	180,683.00
44	K N INTERNATIONAL	Construction of Starter Dyke Lagoon IIID	2016-17	19,684,978.00
45	K N INTERNATIONAL	THIRD RAISING OF ASH DYKE LAGOON # 3ABC AT KAHALGAON.(CS:8498).	2016-17	6,514,518.00
46	Unisys Techonology	Laying of telephone cables in nTPC township and plant area	2016-17	52,103.00
47	SHAMBHU SHARAN MANDAL	Construction of RCC Box culvert over 22.5 M Nallah at ash dyke lagoon-3D to approach village Mazdaha	2016-17	53,009.00
48	SUBHASH KUMAR YADAV	Supply and Fixing of Concrete boundary posts for Ash Dyke, Lagoon-3D, vide CS:8989	2016-17	47,718.00
49	SHAMBHU SHARAN MANDAL	Construction of One No. RCC Box Culvert near AWRS Pump House to approach starter Ash Dyke Lagoon III-D CS: 9161 (C-49113)	2016-17	107,670.00
50	SRI SHEKHAR KUMAR SINGH	Construction one number RCC Box Culvert near AWRS Pump House to approach Starter Ash Dyke Lagoon-IIID	2016-17	62,885.00
			Total ST-II	1,177,364,036
			Total ST-II(Allowed)	1,136,295,456
			Total ST-II(Claimed)	26,544,373
			Total ST-II(Allowed/ Claimed)	1,162,839,829
			Total ST-II(Disallowed)	14,472,104
			Total ST-II(NotClaimed)	52,103
			Grand Total	1,177,364,036

Petitioner

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Summary of issue involved in the petition

Name of the Company :		NTPC Limited
Name of the Power Station :		Kahalgaon Super Thermal power Station Stage-II
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 Kahalgaon Super Thermal Power Station, Stage-II (1500 MW) for the period from 01.04.2019 to 31.03.2024.
3		<p>i) Approve tariff of Kahalgaon-II for the tariff period 01.04.2019 to 31.03.2024.</p> <p>ii) Allow the recovery of filing fees as & 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) Pass any other order as it may deem fit in the circumstances mentioned above.</p>
4	Respondents	
	Name of Respondents	
	1	GRIDCO Ltd.
	2	Power Department Govt. of Sikkim
	3	Gujarat Urja Vikas Nigam Limited
	4	Madhya Pradesh Power Management Co. Ltd.
	5	Maharashtra State Electricity Distribution Company Limited
	6	Chhatisgarh State Power Distribution Co. Ltd.
	7	Electricity Department Administration of Dadra and Nagar Haveli (DNH)
	8	Electricity Department Administration of Daman & Diu(DD)

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	9	Uttar Pradesh Power Corp. Limited				
	10	Uttaranchal Power Corporation Ltd.				
	11	Rajasthan Urja Vikas Nigam Ltd (JVVN)				
	12	Power Development Department(J&K) Govt. of J&K				
	13	BSES Rajdhani Power Ltd.				
	14	BSES YAMUNA Power Ltd.				
	15	North Delhi Power Ltd.				
	16	Haryana Power Purchase Centre Ltd.				
	17	Punjab State Electricity Board				
	18	Himachal Pradesh State Electricity Board				
	19	Electricity Department Union Territory of Chandigarh				
5	Project Scope					
	Cost					
	Commissioning	20.03.2013				
	Claim					
		2019-20	2019-21	2019-22	2019-23	2019-24
	AFC (Rs lakhs)	114478.41	114105.14	113826.32	98087.95	101234.79
	Capital cost (Opening) (Rs lakhs)	555695.69	560495.69	561836.69	567063.69	574413.69
	Initial spare	NA				
	NAPAF (Gen)	85%				
	Any Specific	Relaxation in GHR				
Petitioner						

No. Q-15017/10/2007-CPW
Government of India
Ministry of Environment, Forest & Climate Change
C P Division

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi-110003
Dated 26th August, 2015

Office Memorandum

Subject: Protocol for sampling, analysis of coal and reporting of compliance in respect of implementation of the Gazette notification on use & supply of raw or blended or beneficiated coal with ash content not exceeding 34% ash content in coal based thermal power plants

1.0 Purpose:

This protocol presents the protocol for sampling, analysis of coal and reporting of compliance on quarterly basis with respect to ash content in coal to be supplied and used by the thermal power plants covered under the provisions of the Gazette notification GSR 02 (E) dated January 02, 2014 on supply and use of raw or blended or beneficiated coal in thermal power plants. The objective is to ensure compliance of the quality of coal with respect to ash content, supplied and used by thermal power plants in keeping with applicable extant Notification of the Ministry in this regard. The data generated shall help in evaluation of compliance level of the notification.

2.0 The Notification:

In exercise of the powers conferred by Section 3, Section 6 and Section 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with rule 5 of the Environment (Protection) Rules, 1986, the Ministry of Environment, Forest & Climate Change, Government of India made the following rules vide notification No GSR 2 (E) dated January 02, 2014 under the Environment (Protection) Rules, 1986, namely:—

With effect from the date specified hereunder, the following coal based thermal power plants shall be supplied with, and shall use, raw or blended or beneficiated coal with ash content not exceeding thirty-four per cent, on quarterly average basis, namely:—

- (a) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located beyond 1000 kilometres from the pit-head or, in an urban area or an ecologically sensitive area or a critically polluted industrial area, irrespective of its distance from the pit-head, except a pit-head power plant, with immediate effect;
- (b) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 750 – 1000 kilometres from the pit-head, with effect from the 1st day of January, 2015;

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(c) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 500-749 kilometres from the pit-head, with effect from the 5th day of June, 2016:

Provided that in respect of a thermal power plant using Circulating Fluidised Bed Combustion or Atmosphere Fluidised Bed Combustion or Pressurized Fluidised Bed Combustion or Integrated Gasification Combined Cycle technologies or any other clean technologies as may be notified by the Central Government in the Official Gazette, the provisions of clauses (a), (b) and (c) shall not be applicable.

3.0 Statutory Compliance Requirement and Reporting:

As per the notification, power plants located 750 kilometres from pit head (500 kilometres from June 05, 2016) shall be supplied with, and shall use, raw or blended or beneficiated coal with ash content not exceeding thirty-four per cent, on quarterly average basis. Hence, coal mine or company, as applicable, supplying coal to thermal power plants as well as thermal power plants covered under provisions of the notification shall require to submit compliance report for each quarter with respect to average ash content in coal used by them to respective State Pollution Control Boards (SPCBs), Regional office of the Ministry of Environment, Forest & Climate Change (MoEF&CC) and Central Pollution Control Board (CPCB).

4.0 Amendment in Consent under Air (Prevention and Control of Pollution) Act, 1981 & conditions in Environmental Clearance issued under Environment (Protection) Act, 1986:

In order to implement the provisions made in the notification, the State Pollution Control Board concerned and Ministry of Environment, Forest & Climate Change shall include a condition with respect to specifying ash content in raw or blended or beneficiated coal to be supplied by the coal mine or company, as applicable, and used by thermal power plants, in the existing consent orders issued under Air (Prevention and control of pollution) Act, 1981 and in Environmental Clearance issued under Environment (Protection) Act, 1986 to thermal power plant and coal mine or company, as applicable, under the purview of the notification on supply and use of raw or blended or beneficiated coal and shall invariably prescribe to all new thermal power plant and coal mine or company, as applicable, which may otherwise fall under the purview of the said notification.

5.0 Ash content monitoring (sampling and analysis) technique of coal:

Coal is highly heterogeneous in nature consisting of particles of various shapes and sizes each having different physical characteristics, chemical properties and residual ash content. Sampling is further complicated by the sampling equipment available, the quantity to be represented by the sample mass, and the degree of precision required. In addition, the coal to be sampled may be a blend of different coal types and how the coal is blended has a profound effect on the way a representative sample is obtained. National and international standards have been developed to provide guidelines for coal sampling procedures under different conditions, sample preparation and bias test procedures for the purpose of obtaining unbiased samples.

Real Time monitoring using auto mechanical sampling (online) from moving streams shall be used for sampling fuels. This shall be effective from a date not later

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than 01 September, 2016 in order to enable the Coal Companies and thermal power plants to install and operationalise the real time monitoring system. Manual sampling and analysis may be done so as to verify the online monitoring results.

In case of manual monitoring, coal samples may be taken from a moving conveyor belt since sampling from stationary coal such as a coal storage pile or railcars may be problematic. The analysis of samples shall be carried out by third party appointed by the respective thermal power plant/coal mine or company, as applicable, as per the guidelines of Coal Controller.

6.0 Calibration of auto-mechanical sampler:

It should be ensured that the online ash monitoring instrument is properly calibrated. Measurements should be accepted as valid only if the calibration level shows variation in ash content is 1.0-2%. The online monitor and calibrator will hold a current calibration certificate traceable to national standards.

7.0 Location of Real-Time monitor:

The best location of real-time monitor for sampling from a moving stream is at the coal discharge point of a conveyor belt to bunker where the complete stream can be intersected at regular intervals.

8.0 Sampling frequency:

The continuous sampling of ash content in coal shall be carried out using real-time coal quality monitoring devices. In case of manual monitoring, minimum one sample from moving conveyor belt leading to bunker at each filling shall be collected. The data generated shall be computed and average for each quarter shall be calculated for reporting to concerned agencies as specified in the para 3.0 of this Office Memorandum.

9.0 Monitoring:

The following criteria will be observed when undertaking the sampling and analysis of coal samples with respect to ash content:

9.1 In case of manual monitoring:

- i. Collection of coal samples shall strictly be collected as per the guidelines of Coal Controller/ Bureau of Indian Standards (BIS).
- ii. Coal samples shall be collected by the third party appointed by the respective thermal power plant, coal mine or company, as applicable. However, in case of legal sampling a representative of concerned SPCB, thermal power plant, coal mine or company, as applicable shall also be present during sampling.
- iii. Preparation of samples and analysis shall be carried out by using standard methodology as given by Coal Controller/ Bureau of Indian Standards (BIS) at the NABL accredited laboratory of either coal company/power plant or third party engaged.

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9.2 In case of Real Time monitoring:

Data generated through real time online monitors shall be computed on daily basis an average of 3 months shall be calculated for reporting of compliance.

10.0 Monitoring records:

All power plants and coal mine or company, as applicable shall maintain records of the data generated and reported to SPCBs concerned, CPCB & Regional Office of MoEF&CC in compliance to the provisions of the notification for every quarter.

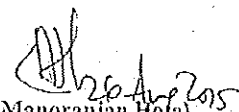
11.0 Compliance Reporting:

All thermal power plants covered under provisions of the notification shall submit compliance Report for each quarter with respect to average ash content in coal used by them to respective SPCBs. Regional office of the MoEF&CC and CPCB on or before 10th day of next month of each quarter ending on 31st day of March, 30th day of June, 30th day of September and 31st day of December every year. Similarly, all coal mine or company, as applicable, supplying coal to power plants shall also submit the same to agencies as mentioned in para 3 of this Office Memorandum.

In order to improve compliance reporting, the thermal power plants and connected coal mine or company, as applicable, should explore possibility of reporting of compliance on continuous basis (online) by making suitable arrangements with respect to ash content in coal being supplied and used by thermal power plants.

12.0 Verification of data & Compliance:

The SPCB concerned shall verify the sampling and analysis process and calibration of real time monitoring devices at least once a year at each thermal power plant and coal mine. Besides, random sampling and analysis of coal used by the power plant and supplied by coal mine shall also be conducted once in a year to ensure compliance and quality of data reporting by the thermal power plants and coal mines.


(Dr. Manoranjan Hota)
Director

To

- 1 PS to MEF&CC
- 2 PPS to Secretary (EF&CC)
- 3 Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
- 4 Secretary, Ministry of Power, Shram Shakti Bhawan New Delhi
- 5 Secretary, Ministry of Steel, Udyog Bhawan, New Delhi
- 6 PPS to Addl. Secretary (HKP)/AS (SK)/AS (MMK);
- 7 JS (MKS), JS (BS)
- 8 Chairman, CPCB/Member Secretary, CPCB
- 9 Member Secretary, All the SPCBs/PCCs
- 10 IT Division, MoEF&CC to upload into the website



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Annexure-B

Bharat Heavy Electricals Limited

(A GOVERNMENT OF INDIA UNDERTAKING)
ELECTRONICS DIVISION

र.के. तिवारी

पालक निदेशक

K. TIWARI

EXECUTIVE DIRECTOR

PHONE : OFF : 080-26989000

FAX : 080-26742780

e-mail : rktiwari@bheledn.co.in

P. B. No. 2606, MYSORE ROAD
BANGALORE - 560 026

EDN/CE/SM/DPU/NTPC

9th September 2015

Dear Shri Venkateshwara Rao,

Sub: Processor upgrades (DPU4E to DPU4F) in BHEL's maxDNA C&I systems
at various NTPC Projects -- reg.

I am pleased to inform that BHEL-EDN has very closely partnered with NTPC in meeting the C&I system requirements of various projects through our maxDNA based controls. As a part of our continuous product development, innovation and commitment to offer the latest controls, we have come out with superior processor DPU4F and the same is currently being supplied to NTPC projects with good response. As a consequence of this development and due to component obsolescence, we have phased out DPU4E processors and withdrawn spares and services support. However, we are presently supplying and supporting the latest processor DPU4F with compatible HMIs and associated software.


In view of this, I strongly suggest that the processor upgrades may please be implemented for all the units of NTPC projects using DPU4E, by which we can ensure continuous availability of your plants and thereby extend the life cycle of C&I systems. In this context I would like to inform you that we have already implemented processor upgrades at NTPC- Rihand (Unit-3).

I request you to examine the above and advice all the NTPC project sites to consider for procurement of processor upgrades (DPU4E to DPU4F) at the earliest with the help of EDN.

You may instruct the concerned officials to interact with our Mr.G A Saravanan, AGM (Ph:080-26989241 & 09972249827, email:saravananga@bheledn.co.in) on the above subject.

With warm regards.

Yours sincerely,


09/09/15
(R.K. TIWARI)

Shri Y Venkateshwara Rao,
Executive Director (Operation Services)
National Thermal Power Corporation Ltd.,
Engineering Office Complex (EOC),
Sector 24,
Noida - 201 301.

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Govt Of Karnataka
Department Of Factories, Boilers, Industrial Security And Health

Office of the Director
Karmika Bhawana, II floor, Bannerghatta Road,
Bengaluru-29, Date: 13.04.2016

Proceedings of the Department of Factories, Boilers, Industrial Security and Health

Read with: Sec 6(1) of Factories Act 1948 and Rule 3 of Karnataka Factories Rules, 1969

Sub: Approval of factory drawings in respect of M/s. Kudgi Super Thermal Power Project (NTPC Limited) as per Factories Act 1948 --Reg.

Ref: 1) Application Form I dated 27.01.2016
2) Site Inspection dated 05.02.2016
3) Final Scrutiny dated 07.04.2016

The maps of M/s NTPC Limited, Kudgi Super Thermal Power Project, Vijayapura have been scrutinized as per the Factories Act 1948 and the Rules framed and conceived there under and the blue prints of the factory's buildings and machinery layouts have been approved subject to the conformity of all provisions conceived as per Factories Act 1948 concerned and clause 3(4) of Karnataka Factories Rules, 1969 and also conformity of following conditions:

1. To modify the use of hazardous chlorine chemical to minimum hazardous chlorine chemical and to strictly comply with all the conditions laid down in the letter as per the condition of this office letter no. CSMC/TFC/CR-13/2013-14 Date 23.09.2013.
2. To get those buildings and machinery layout maps approved which are not approved earlier or the maps involving modifications. Such maps should be submitted for approval.
3. Before starting use of all the buildings and structures of the factory, authentication certification should be separately obtained as per Form 1A from authorized Civil Engineers and submitted to the Field Officer. Then only these should be used.

Ninety nine maps as approved are sent enclosed herewith. Kindly acknowledge.

Director of Factories &
Boilers,
Bengaluru

To,
The Occupier,
M/s. Kudgi Super Thermal Power Project
NTPC Limited
Kudgi, Taluka: Basavana Bagewadi, Dist.: Vijayapura

for kind information please.

AM 29/4/16

29/4/2016

मे वरु अगुदित

29/4/16

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕಾರ್ಖಾನೆಗಳು, ಬಾಯ್ಲರುಗಳು, ಕೈಗಾರಿಕಾ ಸುರಕ್ಷತೆ ಮತ್ತು ಸ್ವಾಸ್ಥ್ಯ ಇಲಾಖೆ

ಸಂಖ್ಯೆ: ಕಾಬಾನಿ/ಎಫ್‌ಫಿಎಲ್/ಎಫ್‌ಪಿಎನ್/ಸಿಆರ್-167/2015-16

ನಿರ್ದೇಶಕರ ಕಾರ್ಯಾಲಯ,

ಕಾರ್ಮಿಕ ಭವನ, 2ನೇ ಮಹಡಿ, ಬನ್ನೇರುಘಟ್ಟ ರಸ್ತೆ,

ಬೆಂಗಳೂರು-29, ದಿನಾಂಕ: 13.04.2016

ನಿರ್ದೇಶಕರು, ಕಾರ್ಖಾನೆಗಳು, ಬಾಯ್ಲರುಗಳು, ಕೈಗಾರಿಕಾ ಸುರಕ್ಷತೆ ಮತ್ತು ಸ್ವಾಸ್ಥ್ಯ ಇಲಾಖೆ, ಬೆಂಗಳೂರು ಇವರ ನಡವಳಿಗಳು

ಓದಿದೆ: ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಸೆಕ್ಷನ್ 6(1) ಹಾಗೂ ಕರ್ನಾಟಕ ಕಾರ್ಖಾನೆಗಳ ನಿಯಮಾವಳಿಗಳು, 1969ರ 3ನೇ ನಿಯಮ.

ವಿಷಯ: ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಮೇರೆಗೆ ಮೆ|| ಕೂಡಗಿ ಸೂಪರ್ ಥರ್ಮಲ್ ಪವರ್ ಪ್ರಾಜೆಕ್ಟ್ (ಎನ್.ಟಿ.ಪಿ.ಸಿ.ಲಿಮಿಟೆಡ್), ವಿಜಯಪುರ ಈ ಕಾರ್ಖಾನೆಯ ನಕ್ಷೆಗಳನ್ನು ಅನುಮೋದಿಸುವ ಕುರಿತು.

- ಉಲ್ಲೇಖ : 1) ಅರ್ಜಿ ನಮೂನೆ-1ರ ದಿನಾಂಕ : 27.01.2016.
2) ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆಯ ದಿನಾಂಕ : 05.02.2016.
3) ಅಂತಿಮ ಪರಿಶೋಧನೆಯ ದಿನಾಂಕ : 07.04.2016.

ಮೆ|| ಕೂಡಗಿ ಸೂಪರ್ ಥರ್ಮಲ್ ಪವರ್ ಪ್ರಾಜೆಕ್ಟ್ (ಎನ್.ಟಿ.ಪಿ.ಸಿ.ಲಿಮಿಟೆಡ್), ವಿಜಯಪುರ ಈ ಕಾರ್ಖಾನೆಯ ನಕ್ಷೆಗಳು ಕಾರ್ಖಾನೆಗಳ ಕಾಯ್ದೆ 1948ರ ಹಾಗೂ ಅದರಿಂದ ರೂಪಿತವಾದ ನಿಯಮಗಳಲ್ಲಿ ಕಲ್ಪಿಸಿರುವ ಅವಕಾಶಗಳನುಸಾರವಾಗಿ ಪರಿಶೋಧಿಸಿದ ಮೇಲೆ ಸದರಿ ಕಾರ್ಖಾನೆಗೆ ಸಂಬಂಧಪಟ್ಟ ಕಟ್ಟಡ ಹಾಗೂ ಯಂತ್ರ ವಿದ್ಯಾಸಂಸ್ಥೆಗಳ ನೀಲಿ ನಕ್ಷೆಗಳು ಅಗತ್ಯವಿರುವ ಕಾರ್ಖಾನೆಗಳು ಕಾಯ್ದೆ 1948ರ ಹಾಗೂ ಕರ್ನಾಟಕ ಕಾರ್ಖಾನೆಗಳ ನಿಯಮಾವಳಿಗಳು 1969ರ 3(4) ನೇ ನಿಯಮಕ್ಕನುಸಾರವಾಗಿ ಕಲ್ಪಿಸಿರುವ ಎಲ್ಲಾ ಅವಕಾಶಗಳು ಮತ್ತು ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳ ಅನುಮೋದನೆಗೊಳಪಟ್ಟು ಅನುಮೋದಿತವಾಗಿವೆ.

1. ಇದೇ ಕಛೇರಿಯ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಿಎಸ್‌ಎಂಸಿ/ಟಿಎಫ್‌ಸಿ/ಸಿಆರ್-13/2013-14, ದಿ: 23.09.2013 ರಂತೆ ವಿಧಿಸಿರುವ ಷರತ್ತಿನಂತೆ ಅಪಾಯಕಾರಿ ಕ್ಲೋರಿನ್ ರಾಸಾಯನಿಕದ ಉಪಯೋಗವನ್ನು ಕನಿಷ್ಠ ಅಪಾಯಕಾರಿ ರಾಸಾಯನಿಕಕ್ಕೆ ಬದಲಾಯಿಸುವುದು ಮತ್ತು ಇತರ ಸದರಿ ಪತ್ರದಲ್ಲಿ ಸೂಚಿಸಿರುವ ಎಲ್ಲಾ ಷರತ್ತುಗಳನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ ಪಾಲಿಸುವುದು.
2. ಹಾಲಿ ಇಲಾಖೆಯಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುವ ಎಲ್ಲಾ ಕಟ್ಟಡ ಮತ್ತು ಯಂತ್ರ ವಿದ್ಯಾಸಂಸ್ಥೆ ನಕ್ಷೆಗಳನ್ನು ಕ್ರೋಡೀಕರಿಸಿ ಯಾವುದೇ ಕಟ್ಟಡ ಮತ್ತು ಯಂತ್ರ ವಿದ್ಯಾಸಂಸ್ಥೆ ಅನುಮೋದನೆಗೊಳ್ಳದಿದ್ದಲ್ಲಿ ಅಥವಾ ಬದಲಾವಣೆಗಳಿದ್ದಲ್ಲಿ ಅವುಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ನಕ್ಷೆಗಳನ್ನು ಸಲ್ಲಿಸಿ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
3. ಕಾರ್ಖಾನೆಯಲ್ಲಿನ ಎಲ್ಲಾ ಕಟ್ಟಡ ಮತ್ತು ಸ್ತಂಭಗಳನ್ನು ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವ ಪೂರ್ವದಲ್ಲಿ ದೃಢೀಕೃತ ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್‌ಗಳಿಂದ ದೃಢೀಕರಣ ಪ್ರಮಾಣ ಪತ್ರಗಳನ್ನು ನಮೂನೆ-1ಎ ನಂತೆ ಪ್ರತ್ಯೇಕವಾಗಿ ಪಡೆದು ಕ್ಷೇತ್ರಾಧಿಕಾರಿಗಳಿಗೆ ಸಲ್ಲಿಸಿ, ನಂತರವೇ ಉಪಯೋಗಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳುವುದು.

ಇವುಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡುವುದಾಗಿ
ಇವುಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡುವುದಾಗಿ
ಸಹಾಯಕ ನಿರ್ದೇಶಕರು (ಕಾರ್ಖಾನೆ ಇಲಾಖೆ)

GOVERNMENT OF KARNATAKA
DEPARTMENT OF FACTORIES, BOILERS, INDUSTRIAL SAFETY & HEALTH

CSMC/TFC/CR-13/2013-14

Directorate of Factories, Boilers, Industrial Safety & Health,
Karnataka Bhavan, 2nd floor, Near Bangalore
Dary, 17th compound, Bannerghatta road
Bangalore-26 (Dated 23.09.2013)

Phone No. 980-36531200
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General Manager,
M/s. NTPC Limited,
Kudug Super Thermal Power Project
Plot No. 9, Mallikarjun Nagar,
Mangaluru Road, Basavara-788s-108

*A GM (PKS)
Date 19/10/2013*

Subject: Site Clearance for setting up of super thermal power project

- Reference:
1. Your letter dated 03.05.2013
 2. Proceedings of task force committee meeting held on 12.09.2013
 3. Your reply mail dated 19.09.2013.
- * * *

We are pleased to inform you that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation documents details of the same and has concurred in principle to issue the site clearance for the establishment of super thermal power project for generating electrical power of 800 MW at Near Kudug village, Basavara bagewadi Taluk, Bijapur District.

The site clearance is issued subject to the following conditions:

1. The replacing of highly hazardous chlorine with available less hazardous alternative chemicals like chlorine dioxide, sodium hypochlorite shall be considered.
2. It is mandatory to design cylinder bank with minimum old stock and to avoid the use of old and irregular cylinders.
3. The safety check shall be prepared in storing, handling and usage of chlorine and its holding capacity shall be limited to a minimum required quantity.
4. The exclusive safety, health and environment (SHE) department shall be formed under the direct control & supervision of the occupier. This department shall be supported by senior level qualified and competent executives with adequate field staff.
5. The site to be employed in our work shall be as per the provisions of the act and work environment with special trust to hygiene condition of radiation is also to be taken care.
6. No building of structure shall be constructed with obtaining a prior approval of plans by Director, Department of Factories, Boilers, Industrial Safety and Health.
7. The pre and periodical medical examination shall be carried out to all the category of employees including contract and casual. The medical surveillance shall be carried out by creating a base line health data and shall have the provision for up-dating the same and continuous basis.

the mitigation measures as submitted in the proposal and as suggested by the committee shall be incorporated in the project safety plan. The same shall be submitted for scrutiny and approval.

The provisions of rule 700-25 of Building and Other Construction Workers (Regulation of Employment and condition of service) (Karnataka) Rules, 2006 shall be complied to ensure occupational safety and health of the construction workers involved in project. The compliance shall be furnished regularly to the concerned officers of the department of the Government of Karnataka, Ministry of Labour, Industrial Safety and Health.

Suggestions:

- 1. The contractor shall adopt the rain water harvesting system wherever applicable at the project.
- 2. The contractor shall adopt solar energy system at least for the street lighting and in other suitable areas like water heating in the canteen, etc.

All the above conditions and suggestions shall be complied and a certificate shall be submitted to the department reserves all the rights to modify or withdraw clearance issued at any point of time.

Your's faithfully

Chairman
Task Force on
and Director of Labour, Welfare,
Industrial Safety and Health, Bangalore