

Petition No :



A Maharatna Company

Korba STPS Stage-I&II

3x200+3x500 MW

**TARIFF PETITION 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 ***Korba Super Thermal Power Station Stage-I&II(3X200+3x500 MW)*** for the period from **01.04.2019 to 31.03.2024.**

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S+M.

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 ***Korba Super Thermal Power Station Stage-I&II(3X200+3x500 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. Madhya Pradesh Power Management Company Limited,
Shakti Bhawan, Vidyut Nagar,
Jabalpur 482 008
2. Maharashtra State Electricity Distribution Co Ltd.
Prakashgad, Bandra (East),
Mumbai 400 051
3. Gujarat UrjaVikas Nigam Ltd.(GUVNL)
VidyutBhavan, Race Course
Vadodara – 390 007
4. Chattisgarh State Power Distribution Co. Ltd.,
P.O. Sundar Nagar,
Danganiya, Raipur – 492013
5. Electricity Department, VidyutBhawan,
Panaji, Goa
6. Electricity Department,
Administration of Daman & Diu
Daman-396 210

Signature

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. Korba Super Thermal Power Station Stage -I&II (3X200+3x500 MW) (hereinafter referred to as Korba-I&II) is one such station located in the State of Chattisgarh. The power generated from Korba-I&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

S. W.

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 Korba-I&II for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

- 6) The tariff of the Korba-I&II for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 24.02.2017 in Petition No. 323/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The Petitioner thereafter had filed an Appeal (being No. 140 of 2017) in Appellate Tribunal of Electricity on certain aspects of the order dated 24.02.2017. The appeal is under consideration of the Hon'ble Appellate Tribunal of Electricity. The petitioner vide affidavit dated 07.01.2020 had filed a separate true up petition for the period from 01.04.2014 to 31.03.2019 for revision of tariff in line with the applicable provisions of Tariff Regulations 2014.
- 7) It is submitted that Hon'ble Commission vide order dated 24.02.2017 in Petition no 323/GT/2014 has allowed a capital cost of Rs 1780.0797Cr. 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 foresaid true-up petition as Rs.1781.0878 Crs based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (+)1.0081 Cr to 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 1781.0878 Crs. 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.

- 8) The capital expenditure claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and projected estimated capital expenditures for the period 2019-24 claimed under Regulation 19 and Regulation 26 of the Tariff Regulations, 2019.
- 9) The Petitioner further respectfully submits that as per Regulation 35(1)(6) of the Tariff Regulations 2019, the water charges, security expenses and capital spares consumed for thermal generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2018-19 have been furnished below. The water charges as paid in 2018-19 has been escalated @3.5% every year. Accordingly, water charges may be allowed in tariff based on the same for the 2019-24. 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	Coal based Thermal Power Plant
Type of cooling water system	Closed Circuit Cooling System
Consumption of Water#	55.97 MCM
Rate of Water charges*	Rs12.25/Cubic Meter
Total Water Charges*	8192.40 Lakh

for entire Korba(2980 MW)

*As per truing up petition filed for the instant station

- 10) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to

(4)

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the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24

- 11) 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.
- 12) 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 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."

Petitioner has claimed the additional expenditure towards ash transportation charges for the period 2017-18 and 2018-19 in the true-up petition filed petitions for the period 2014-19 in various NTPC station.

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.

- 13) 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.
- 14) 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.



- 15) 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
- 16) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

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

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


Petitioner

New Delhi
24.01.2020

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 ***Korba Super Thermal Power Station Stage-I&II (3X200+3x500 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. Madhya Pradesh Power Management
Company Limited,
Shakti Bhawan, Vidyut Nagar,
Jabalpur 482 008 and Others

AFFIDAVIT

I, E. Prabhakara Rao, son of Late Shri E. K. Rama Sharma aged about 52 years, resident of D-311, Parsvnath Prestige, Sector - 93 A, Noida (U.P), -201304 do solemnly affirm and state as under:

1. That I am the Additional General Manager (Commercial) in 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 filed by NTPC and have understood the contents of the same.



8

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.

[Signature]
(Deponent)

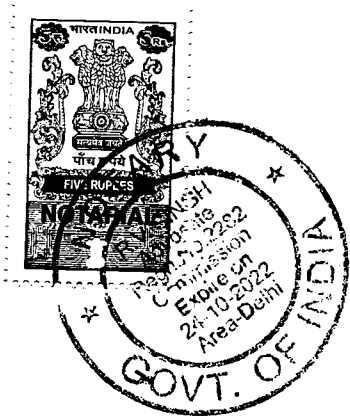
Verification:

I, E. Prabhakara Rao 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 of January 2020.

24 JAN 2020

[Signature]
(Deponent)



Solemnly affirmed before me, read over & explained to the deponent.

Notary Public, DELHI

24 JAN 2020

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Korba Super Thermal Power Station Stage-I&II

(From 01.04.2019 to 31.03.2024)

PART-I

ANNEXURE-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	✓
FORM -1 (I)	Statement showing claimed capital cost	✓
FORM -1 (II)	Statement showing Return on Equity	✓
FORM-2	Plant Characteristics	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM-3A**	Statement showing O&M Expenses	✓
FORM-3B**	Statement of Special Allowance	✓
FORM- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	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	NA
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	NA
FORM- 15	Details of Fuel for Computation of Energy Charges	✓
FORM- 15A	Details of Secondary Fuel for Computation of Energy Charges	✓
FORM- 15B	Computation of Energy Charges	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	***
FORM- 18	Non-Tariff Income	***
FORM-19	Details of Water Charges	***
FORM-20	Details of Statutory Charges	***

Provided yearwise for the period 2019-24

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	✓

** Additional Forms

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

Signature

List of supporting documents for tariff filing for Thermal Stations

S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years.	NA
	B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	**
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.	NA
	List of supporting documents to be submitted:	
	a. Detailed Project Report	
	b. CPM Analysis	
	c. PERT Chart and Bar Chart	
d. Justification for cost and time Overrun		
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
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	NA
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 submitted at the time of Truing up

Stu.

Summary of Tariff

Name of the Petitioner:		NTPC Limited								
Name of the Generating Station:		Korba Super Thermal Power Station Stage-I&II								
Place (Region/District/State):		Western Region/Bilaspur/ Chattisgarh								
S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Amount in Rs. Lakhs	
									3	4
1.1	Depreciation	Rs Lakh	0.00	-	-	326.43	-	-	-	-
1.2	Interest on Loan	Rs Lakh	1.40	1.63	23.92	32.93	19.60	19.65	-	-
1.3	Return on Equity	Rs Lakh	17,228.43	10,035.72	10,057.69	10,079.67	10,079.67	10,079.67	10,079.67	19.65
1.4	Interest on Working Capital	Rs Lakh	9,343.44	9,085.49	9,202.37	9,324.51	9,440.86	9,440.86	9,561.74	9,561.74
1.5	O&M Expenses	Rs Lakh	64,621.48	64,672.32	66,942.92	69,290.15	71,732.50	74,237.45	74,237.45	74,237.45
1.6	Special Allowance (If applicable)	Rs Lakh	18,941.40	19,950.00	19,950.00	19,950.00	19,950.00	19,950.00	19,950.00	19,950.00
1.7	Compensation Allowance (If applicable - relevant for column 4 only)	Rs. Lakh	0.00	-	-	-	-	-	-	-
	Total	Rs Lakh	110136.15	103745.15	106176.90	109003.68	111222.62	113848.50		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as per FSA approved by beneficiaries	Rs/Ton								
	(%) of Fuel Quantity	(%)								1748.82
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries									
	(%) of Fuel Quantity									
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton								
	(%) of Fuel Quantity	(%)								
2.4	Landed Fuel Cost Imported Coal other than FSA.									
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit								0.019
	Energy Charge Rate ex-bus (Paise/kWh) 2A, 2B, 2C, 2D	Rs/Unit								1.377

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Korba Super Thermal Power Station Stage-I&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	1,78,108.78	1,78,108.78	1,78,888.78	1,78,888.78	1,78,888.78
2	Add: Addition during the year/period	-	780.00	-	-	-
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	1,78,108.78	1,78,888.78	1,78,888.78	1,78,888.78	1,78,888.78
7	Average Capital Cost	1,78,108.78	1,78,498.78	1,78,888.78	1,78,888.78	1,78,888.78

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	178108.78	178108.78	178888.78	178888.78	178888.78
2	Add: Addition during the year / period	0.00	780.00	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	178108.78	178888.78	178888.78	178888.78	178888.78
7	Average Capital Cost	178108.78	178498.78	178888.78	178888.78	178888.78

**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

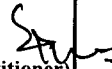

 (Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Korba Super Thermal Power Station Stage-I&II

Statement showing Return on Equity at Normal Rate

S. No.	Particulars	Amount in Rs. Lakhs				
		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)	87,092.74	87,092.74	87,326.74	87,326.74	87326.743
2	Less: Adjustment in Opening Equity	33,660.11				
3	Adjustment during the year		33660.11	33660.11	33660.11	33660.11
4	Net Opening Equity (Normal)	53,432.63	53,432.63	53,666.63	53,666.63	53,666.63
5	Add: Increase in equity due to addition during the year / period	0.00	234.00	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)	53,432.63	53,666.63	53,666.63	53,666.63	53,666.63
11	Average Equity (Normal)	53,432.63	53,549.63	53,666.63	53,666.63	53,666.63
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	10,035.72	10,057.69	10,079.67	10,079.67	10,079.67


 (Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Korba Super Thermal Power Station Stage-I&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 (%)	9.872	9.894	9.908	9.914	9.940
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	Korba STPS Stage-I&II					
Unit(s)/Block(s)/Parameters	Unit-1	Unit-2	Unit-3	Unit-4	Unit-5	Unit-6
Installed Capacity (MW)	200	200	200	500	500	500
Schedule COD as per Investment Approval						
Actual COD /Date of Taken Over (as applicable)	1-Aug-83	1-Jan-84	1-Jun-84	1-Mar-88	1-Apr-89	1-Jun-90
Pit Head or Non Pit Head	Pit Head	Pit Head	Pit Head	Pit Head	Pit Head	Pit Head
Name of the Boiler Manufacture	BHEL	BHEL	BHEL	BHEL	BHEL	BHEL
Name of Turbine Generator Manufacture	KWU	KWU	KWU	KWU	KWU	KWU

Main Steams Pressure at Turbine inlet (kg/Cm ²) abs ¹ .	
Main Steam Temperature at Turbine inlet (°C) ¹	
Reheat Steam Pressure at Turbine inlet (kg/Cm ²) ¹	
Reheat Steam Temperature at Turbine inlet (°C) ¹	
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	
Unit Gross electrical output under MCR /Rated condition (MW) ²	
Unit Gross electrical output under VWO condition (MW) ²	
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	
Conditions on which design turbine cycle heat rate guaranteed	
% MCR	
% Makeup Water Consumption	
Design Capacity of Make up Water System	
Design Capacity of Inlet Cooling System	
Design Cooling Water Temperature (°C)	
Back Pressure	
Steam flow at super heater outlet under BMCR condition (tons/hr)	
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm ²)	
Steam Temperature at super heater outlet under BMCR condition (°C)	
Steam Temperature at Reheater outlet at BMCR condition (°C)	
Design / Guaranteed Boiler Efficiency (%) ⁴	
Design Fuel with and without Blending of domestic/imported coal	

NA

Type of Cooling Tower	COUNTER	COUNTER	COUNTER	COUNTER	COUNTER	COUNTER
Type of cooling system ⁵	CLOSED/ INDUCED	CLOSED/ INDUCED	CLOSED/ INDUCED	CLOSED/ INDUCED	CLOSED/ INDUCED	CLOSED/ INDUCED
Type of Boiler Feed Pump ⁶	Motor	Motor	Motor	Steam driven	Steam driven	Steam driven
Fuel Details ⁷						
-Primary Fuel	COAL	COAL	COAL	COAL	COAL	COAL
-Secondary Fuel	OIL	OIL	OIL	OIL	OIL	OIL
-Alternate Fuels						
Special Features/Site Specific Features ⁸						
Special Technological Features ⁹						
Environmental Regulation related features ¹⁰	ESP	ESP	ESP	ESP	ESP	ESP
Any other special features						

- 1: At Turbine MCR condition.
- 2: with 0% (Nil) make up and design Cooling water temperature
- 3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.
- 4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put
- 5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.
- 6: Motor driven. Steam turbine driven etc.
- 7: Coal or natural gas or Naptha or lignite etc.
- 8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features
- 9: Any Special Technological feature like Advanced class FA technology in Gas Turbines. etc.
- 10: Environmental Regulation related features like FGD, ESP etc.,

Saw...
Petitioner

Normative parameters considered for tariff computations

Name of the Petitioner: NTPC Limited
Name of the Generating Station: Korba Super Thermal Power Station Stage-I&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** \$\$	%	-	8.147	8.165	8.177	8.182	8.203
Effective Tax Rate	%	21.5490	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	%	6.68	7.04	7.04	7.04	7.04	7.04
Gross Station Heat Rate	kCal/kWh	2396.43	2401.43	2401.43	2401.43	2401.43	2401.43
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	0	25.50	26.39	27.32	28.28	29.27
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	707000	707000	707000	707000	707000	707000
SBI 1 Year MCLR plus 350 basis point3	%	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

S.P.
Petitioner

Calculation of O&M Expenses

Name of the Company :		NTPC Limited				
Name of the Power Station :		Korba Super Thermal Power Station Stage-I&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	53541.00	55422.00	57366.00	59391.00	61464.00
2	O&M expenses under Reg.35(6)					
2a	Water Charges	8479.13	8775.90	9083.06	9400.97	9730.00
2b	Secutiry expenses	2652.19	2745.01	2841.09	2940.53	3043.45
2c	Capital Spares**	0.00	0.00	0.00	0.00	0.00
3	O&M expenses-Ash Transportation**	0.00	0.00	0.00	0.00	0.00
	Total O&M Expenses	64672.32	66942.92	69290.15	71732.50	74237.45

** Shall be provided at the time of truing up


Petitioner

Computation of Special Allowance

Name of the Company : NTPC Limited

Name of the Power Station : Korba Super Thermal Power Station Stage-I&II

Rate of Special allowance @lakh/MW/year 9.5

(Rs. Lakh)

Unit No.	Capacity (MW)	Date of COD	Year of completion of useful life of 25 yrs.	Existing 2018-19	Special Allowance as per Clause 28				
					2019-20	2020-21	2021-22	2022-23	2023-24
1	200	1-Aug-83	2008-09	1699.45	1900.00	1900.00	1900.00	1900.00	1900.00
2	200	1-Jan-84	2008-09	1699.45	1900.00	1900.00	1900.00	1900.00	1900.00
3	200	1-Jun-84	2009-10	1699.45	1900.00	1900.00	1900.00	1900.00	1900.00
4	500	1-Mar-88	2012-13	4248.76	4750.00	4750.00	4750.00	4750.00	4750.00
5	500	1-Apr-89	2014-15	4797.13	4750.00	4750.00	4750.00	4750.00	4750.00
6	500	1-Jun-90	2015-16	4797.13	4750.00	4750.00	4750.00	4750.00	4750.00
Year wise Total for the Station				18941.40	19950.00	19950.00	19950.00	19950.00	19950.00

Petitioner 

Form-4

DETAILS OF FOREIGN LOANS
(Details only in respect of loans applicable to the project under petition)

Name of the company
NTPC LIMITED

Name of the Power Station
Korba R&M

Exchange Rate at COD
USD = Rs. 51.91

Exchange Rate as on date of drawl Euro Bond
USD = Rs. 51.91

Financial Year	2019-20		2020-21		2021-22		2022-23		2023-24		(Amount in Lacs)	
	Date	Amount (INR)	Ex. Rate	Amount (FC)	Ex. Rate	Amount (FC)	Ex. Rate	Amount (FC)	Ex. Rate	Amount (FC)	Date	Amount (INR)
1. At the date of drawl (COD)												
Loan repayment upto previous period												
Net loan at the beginning of the period	01-04-2019	2,952.38	51.9100	56.88	51.9100	56.88	51.9100	56.88	51.9100	01-04-2023	2,952.38	2,952.38
2. Scheduled repayment date of principal	14-07-2019	-	51.9100	-	51.9100	-	51.9100	-	51.9100	14-07-2023	-	-
3. Scheduled payment date of interest	14-07-2019	70.12	51.9100	1.35	51.9100	1.35	51.9100	1.35	51.9100	14-07-2023	70.12	70.12
4. Withholding tax including surcharge on interest	14-07-2019	4.01	51.9100	0.08	51.9100	0.08	51.9100	0.08	51.9100	14-07-2023	4.01	4.01
5. Scheduled repayment date of principal	14-01-2020	-	51.9100	-	51.9100	-	51.9100	-	51.9100	14-01-2024	-	-
6. Scheduled payment date of interest	14-01-2020	70.12	51.9100	1.35	51.9100	1.35	51.9100	1.35	51.9100	14-01-2024	70.12	70.12
7. Withholding tax including surcharge on interest	14-01-2020	4.01	51.9100	0.08	51.9100	0.08	51.9100	0.08	51.9100	14-01-2024	4.01	4.01
At the end of Financial year	31-03-2020	2,952.38	51.9100	56.88	51.9100	56.88	51.9100	56.88	51.9100	31-03-2024	2,952.38	2,952.38

Saw.

Form-4

DETAILS OF FOREIGN LOANS

(Details only in respect of loans applicable to the project under petition)

Name of the company

Name of the Power Station

Exchange Rate at COD

Exchange Rate as on date of drawl Euro Bond

NTPC LIMITED

Korba R&M

USD = Rs. 51.91

Korba R&M

Financial Year	(2014-15)			(2015-16)			(2016-17)			(2017-18)			(2018-19)									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Date	Date	Date	Amount (INR)	Ex. Rate	Amount (INR)	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	
A. 4.75% EURO BOND 2022																						
1. At the date of drawl (COD)																						
Net loan at the Beginning of the period	01-04-2014			56.88	51.9100	2,952.38	56.88	51.9100	2,952.38	01-04-2016	56.88	51.9100	2,952.38	01-04-2018	56.88	51.9100	2,952.38					
Schedule repayment date of principal	14-07-2014			-	51.9100	-	-	51.9100	-	14-07-2017	-	51.9100	-	14-07-2018	-	51.9100	-	14-07-2018	-	51.9100	-	2,952.38
3. Scheduled payment date of interest	14-07-2014			1.35	51.9100	70.12	1.35	51.9100	70.12	14-07-2016	1.35	51.9100	70.12	14-07-2017	1.35	51.9100	70.12	14-07-2018	1.35	51.9100	70.12	70.12
4. Withholding tax including surcharge on interest	14-07-2014			0.08	51.9100	4.01	0.08	51.9100	4.01	14-07-2016	0.08	51.9100	4.01	14-07-2017	0.08	51.9100	4.01	14-07-2018	0.08	51.9100	4.01	4.01
5. Schedule repayment date of principal	14-01-2015			-	51.9100	-	-	51.9100	-	14-01-2017	-	51.9100	-	14-01-2018	-	51.9100	-	14-01-2019	-	51.9100	-	-
6. Scheduled payment date of interest	14-01-2015			1.35	51.9100	70.12	1.35	51.9100	70.12	14-01-2017	1.35	51.9100	70.12	14-01-2018	1.35	51.9100	70.12	14-01-2019	1.35	51.9100	70.12	70.12
7. Withholding tax including surcharge on interest	14-01-2015			0.08	51.9100	4.01	0.08	51.9100	4.01	14-01-2017	0.08	51.9100	4.01	14-01-2018	0.08	51.9100	4.01	14-01-2019	0.08	51.9100	4.01	4.01
At the end of Financial year				56.88	51.9100	2,952.38	56.88	51.9100	2,952.38	31-03-2015	56.88	51.9100	2,952.38	31-03-2017	56.88	51.9100	2,952.38	31-03-2018	56.88	51.9100	2,952.38	2,952.38

SAW

DETAILS OF FOREIGN LOANS

(Details only in respect of loans applicable to the project under petition)

Name of the company
NTPC LIMITED

Name of the Power Station
Korba R & M

Exchange Rate as on 31-03-2019 USD = Rs. 69.77 EUR = Rs. 78.84 JPY 0.6343

	2019-20 (01.04.2019 to 31.03.2020)				2020-21 (01.04.2020 to 31.03.2021)				2021-22 (01.04.2021 to 31.03.2022)				2022-23 (01.04.2022 to 31.03.2023)			
	1 Date	2 Amount (FC)	3 Ex. Rate	4 Amount (INR)	1 Date	2 Amount (FC)	3 Ex. Rate	4 Amount (INR)	1 Date	2 Amount (FC)	3 Ex. Rate	4 Amount (INR)	1 Date	2 Amount (FC)	3 Ex. Rate	4 Amount (INR)
Financial Year (Starting from COD)																
4.75% Eurobonds 2022																
A. Currency 1 USD																
1. At the date of drawl	02-10-2018	56.88	69.77	3,968.17												
Loan repayment upto previous period	01-04-2018	-	0.00	-												
Net loan at the Beginning of the period	01-04-2019	56.88	69.77	3,968.17	01-04-2020	56.88	69.77	3,968.17	01-04-2021	56.88	69.77	3,968.17	01-04-2022	56.88	69.77	3,968.17
Schedule repayment date of principal	02-04-2019	1.35	69.77	94.24	02-04-2020	1.35	69.77	94.24	02-04-2021	1.35	69.77	94.24	02-04-2022	1.35	69.77	94.24
Withholding tax including surcharge on interest	02-04-2019	0.08	69.77	5.44	02-04-2020	0.08	69.77	5.44	02-04-2021	0.08	69.77	5.44	02-04-2022	0.08	69.77	5.44
Schedule repayment date of principal	02-10-2019	1.35	69.77	94.24	02-10-2020	1.35	69.77	94.24	02-10-2021	1.35	69.77	94.24	02-10-2022	1.35	69.77	94.24
Withholding tax including surcharge on interest	02-10-2019	0.08	69.77	5.44	02-10-2020	0.08	69.77	5.44	02-10-2021	0.08	69.77	5.44	02-10-2022	0.08	69.77	5.44
At the end of Financial year	31-03-2020	56.88	69.77	3,968.17	31-03-2021	56.88	69.77	3,968.17	31-03-2022	56.88	69.77	3,968.17	02-10-2022	-	0.00	-

(Amount in Lacs)

(Amount in Lacs)


(Amount in Lacs)

1.14%

(229)

SPW.

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :	NTPC Limited		
Name of the Power Station :	Korba Super Thermal Power Station Stage-I&II		
Last date of order of Commission for the project		Date (DD-MM-YYYY)	24.02.2017
Reference of petition no. in which the above order was passed		Petition no.	323/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)		178007.97
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)			0.00
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)			4255.86
Gross Normative Debt			90945.47
Cumulative Repayment			90945.47
Net Normative Debt			0
Normative Equity			87062.5
Cumulative Depreciation			1,59,465.48
Freehold land			824.1
 (Petitioner)			

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :		NTPC Limited	
Name of the Power Station :		Korba Super Thermal Power Station Stage-I&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 24.02.2017 In Pet. No.323/GT/2014		Rs. Lakhs	178007.97
Adjustment as per Para (7) of this petition			100.81
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)*	178108.78
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)			0
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)			354.49
Gross Normative Debt			91,016.04
Cumulative Repayment			90,996.09
Net Normative Debt			19.95
Normative Equity			87,092.74
Cumulative Depreciation			1,59,931.78
Freehold land			824.1

S. S. S.
(Petitioner)

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

Particulars	<u>54</u>
Source of Loan ¹	BONDS
Currency ²	INR
Amount of Loan sanctioned	1030683
Interest Type ⁶	Fixed
Fixed Interest Rate, if applicable	8.49%
Base Rate, if Floating Interest ⁷	N/A
Margin, if Floating Interest ⁸	N/A
Are there any Caps/Floor ⁹	No
If above is yes,specify caps/floor	N/A
Moratorium Period ¹⁰	8
Moratorium effective from #	25-03-2015
Repayment Period ¹¹	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025
Repayment effective from	25-03-2023
Repayment Frequency ¹²	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025
Repayment Instalment ^{13,14}	Installments 1st - 206,136.61 2nd - 412,273.22 3rd - 412,273.22
Base Exchange Rate ¹⁶	N/A
Door to Door Maturity	10

Name of the Projects	
Korba R & M	4,400

Spm..

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000571

T00001

D00003

Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	13.08.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	13.08.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	30,00,00,000.00
	SOLAPUR	20,00,00,000.00
	TANDA-II	20,00,00,000.00
	TALLAIPALLI	50,00,00,000.00
	SINGRAULI R&M	80,00,00,000.00
	FARAKKA R&M	80,00,00,000.00
	RIHAND R&M	50,00,00,000.00
	DADRI GAS R&M	40,00,00,000.00
	KORBA R&M	40,00,00,000.00
	RAMAGUNDAM R&M	40,00,00,000.00
	VINDHAYACHAL R&M	30,00,00,000.00
	UNCHAHAHAR R&M	20,00,00,000.00
	Total Allocated Amount	5,00,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000571

T00001

D00004

Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	21.08.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	21.08.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SINGRAULI R&M	1,00,00,00,000.00
	KORBA R&M	1,00,00,00,000.00
	RAMAGUNDAM R&M	1,00,00,00,000.00
	VINDHYACHAL R&M	1,00,00,00,000.00
	TANDA R&M	1,00,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00029

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,00,000	
Date of Drawl	30.03.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	7.76%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	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
	FARAKKA III	90,00,00,000.00
	BARH-II	1,30,00,00,000.00
	TANDA R&M	15,00,00,000.00
	KORBA R&M	15,00,00,000.00
Total Allocated Amount		2,50,00,00,000.00

S...

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00012

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	2,50,00,00,000	
Date of Drawl	22.07.2013	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	D00012-9.95%	
Margin, If Floating Interest :	D00012= 0.25%	
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 :	08.07.2011	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-II	67,00,00,000
	FARAKKA-III	35,00,00,000
	SIMHADRI-II	20,00,00,000
	RAMAGUNDAM SOLAR	10,00,00,000
	FGUTPS R&M	14,00,00,000
	VSTPS R&M	28,00,00,000
	RAMAGUNDAM-R&M	18,00,00,000
	KORBA-R&M	17,00,00,000
	KAWAS-R&M	17,00,00,000
	BADARPUR-R&M	14,00,00,000
	TSTPP-R&M	10,00,00,000
Total Allocated Amount		2,50,00,00,000.00

S. M.

Statement Giving Details of Project Financed through a Combination of loan

**Form 8
TRANCHE NO
T00001**

BP NO 5050000261

D00016

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	01.02.2014	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	4 Years	
Moratorium effective from :	08.07.2011	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	MOUDA-I	50,00,00,000
	VINDHYACHAL-IV	50,00,00,000
	RIHAND-III	65,00,00,000
	MOUDA-II	1,80,00,00,000
	BARH-II	25,00,00,000
	SINGRAULI-R&M	30,00,00,000
	RAMAGUNDAM-R&M	15,00,00,000
	KORBA-R&M	20,00,00,000
	VINDHYACHAL-V	35,00,00,000
	KAWAS-R&M	20,00,00,000
	BADARPUR-R&M	10,00,00,000
Total Allocated Amount		5,00,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D0001

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,00,000	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	21.01.2015	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	1,00,00,00,000
	FARAKKA R&M	25,00,00,000
	TSTPP R&M	40,00,00,000
	SINGRAULI R&M	40,00,00,000
	RAMAGUNDAM R&M	50,00,00,000
	KAWAS R&M	60,00,00,000
	KORBA R&M	60,00,00,000
	GANDHAR R&M	1,25,00,00,000
Total Allocated Amount		5,00,00,00,000.00

S. N. S.

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

T00001

D00018

BP NO 5050000442

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	1,50,00,00,00,000	
Date of Drawl	21.04.2016	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	21.04.2016	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	70,00,00,000
	UNCHAHAR-IV	5,00,00,000
	RAMAGUNDAM R&M	15,00,00,000
	TSTPS R&M	21,00,00,000
	GANDHAR R&M	8,00,00,000
	KORBA R&M	6,00,00,000
	DADRI GAS R&M	10,00,00,000
	UNCHAHAR R&M	5,00,00,000
	BADARPUR R&M	5,00,00,000
	KAHALGAON R&M	5,00,00,000
Total Allocated Amount		1,50,00,00,000

Sum.

Name of the Company	NTPC Ltd
Name of the Power Station	Korba

Particulars	
	2
Source of Loan	4.75% Fixed Rate Notes due 2022**
Drawal	-
Currency	USD
Amount of loan sanctioned	50,00,00,000
Amount of Gross Loan drawn upto 30.09.2018 / COD	50,00,00,000
Interest Type	Fixed
Fixed Interest Rate, if applicable	4.750%
Base Rate, if floating interest	-
Margin, if floating interest rate	-
Are there any Caps / Floor	NO
If above is Yes, specify Caps / Floor	-
Moratorium Period	10 Years
Moratorium effective from	03-Oct-2012
Repayment period	Bullet payment
Repayment effective from	03-Oct-2022
Repayment frequency	One time
Repayment installment	50,00,00,000
Base Exchange Rate (30.09.2018)	73.15
Are foreign currency loan hedged	NO
If above is Yes, specify details	-

Name of the Projects	%
Korba R&M	1.137500%

Notes:-

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

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

S...

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II			
COD	01-06-1990			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Justification	Amount in Rs Lakh 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 handling Syatem (Wet and Dry Ash evacuation)	-	780	0	0		26(1)(b)&26(1)(e)	
	Total (A)	-	780.00	-	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
1		-	-	-	-		AS per Relevant For 9	
	Total (B)	-	-	-	-			
	Total Add. Cap. Claimed (A+B)	-	780.00	-	-			

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II	
COD	01-06-1990	
For Financial Year	2019-20	

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis 5= (3-4)	IDC 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								

NA

Total (A)	-	-	-	-	-	-	-	-
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 (A+B)	-	-	-	-	-	-	-	-

S. Kumar
(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited				
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II				
COD	01-06-1990				
For Financial Year	2020-21				

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh	
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			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 handling System (Wet and Dry Ash evacuation)	780		780		26(1)(b)&26(1)(e)	Presently fly ash evacuation system of the Units of Stage-I&II are operating on slurry system (Wet). MOEF &CC notification dated 25.01.2016, which mandates for 100 % ash utilization generated from the power plant. In view of the above statutory guidelines the wet system is required to be modified and converted in to dry evacuation system for handling and transportation purpose. Being a compliance of statute, it is prayed that Hon'ble Commission may please allow the same as additional capital expenditure in tariff of the instant station under change in law and compliance of law.		
	Total (A)	780.00	-	780.00	-				
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 (A+B)	780.00	-	780.00	-				

S. Kumar
(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited									
Name of the Generating Station		Korba Super Thermal Power Station Stage-I&II									
COD		01-06-1990									
For Financial Year		2021-22									
Sl. No.	Head of Work/Equipment	Accrual basis as per IGAAP	ACE Claimed (Projected)	Ut-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Amount in Rs Lakh		
									5= (3-4)	6	7
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											
2											
3											
Total (A)											
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest											
NA											
NA											
Total (B)											
Total Add. Cap. Claimed (A+B)											

SP
(Petitioner)

37

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II	
COD	01-06-1990	
For Financial Year	2022-23	

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	Amount in Rs Lakh 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								
2								
3								
4								
5								
	Total (A)	-	-	-	-	-		

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 (A+B)	-	-	-	-	-		

NA

S. P. ...
(Petitioner)

38

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II	
COD	01-06-1990	
For Financial Year	2023-24	

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh	
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			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									
2									
Total (A)									
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest									
6									
7									
Total (B)									
Total Add. Cap. Claimed (A+B)									

SAN
(Petitioner)

**PART-I
FORM-10**

Name of the Petitioner	NTPC Limited										
Name of the Generating Station	Korba Super Thermal Power Station Stage-I&II										
Date of Commercial Operation	01-06-1990										

Financial Year (Starting from COD)1	Amount in Rs Lakh										
	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	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
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


(Petitioner)

Statement of Depreciation

Name of the Company :

NTPC Limited

Name of the Power Station :

Korba Super Thermal Power Station Stage-I&II

S. No.	Particulars	Existing 2018-19	(Amount in Rs Lakh)				
			2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Opening Capital Cost	178805.57	1,78,108.78	1,78,108.78	1,78,888.78	1,78,888.78	1,78,888.78
2	Closing Capital Cost	178108.78	1,78,108.78	1,78,888.78	1,78,888.78	1,78,888.78	1,78,888.78
3	Average Capital Cost	178457.18	1,78,108.78	1,78,498.78	1,78,888.78	1,78,888.78	1,78,888.78
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	824.10	824.10	824.10	824.10	824.10	824.10
5	Rate of depreciation	0.000	0.000	0.000	0.000	0.000	0.000
6	Depreciable value	1,60,560.34	1,59,556.21	1,59,907.21	1,60,258.21	1,60,258.21	1,60,258.21
7.	Balance useful life at the beginning of the period	0.00	-	-	-	-	-
8	Remaining depreciable value	0.00	-	-	326.43	-	-
9	Depreciation (for the period)	0.00	-	-	326.43	-	-
10	Depreciation (annualised)	0.00	-	-	326.43	-	-
11	Cumulative depreciation at the end of the period		1,59,931.78	1,59,931.78	1,60,258.21	1,60,258.21	1,60,258.21
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	11.42	-	-	-	-	-
13	Less: Cumulative depreciation adjustment on account of de-capitalisation	639.98	-	-	-	-	-
14	Net Cumulative depreciation at the end of the period after adjustments	1,59,931.78	1,59,931.78	1,59,931.78	1,60,258.21	1,60,258.21	1,60,258.21

(Petitioner)

Calculation of Interest on Actual Loans

Name of the Company
Name of the Power Station

NTPC Ltd
Korba I&II

Sl. no.	Particulars	(Amount in lacs)				
		2019-20	2020-21	2021-22	2022-23	2023-24
1	PFC V D-29					
	Gross loan - Opening	1500.00	1500.00	1500.00	1500.00	1500.00
	Cumulative repayments of Loans upto previous year	718.75	843.75	968.75	1093.75	1218.75
	Net loan - Opening	781.25	656.25	531.25	406.25	281.25
	Addition					
	Repayments of Loans during the year	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	7.7600%	7.7600%	7.7600%	7.7600%	7.7600%
	Interest on loan	55.78	46.08	36.38	26.68	16.98
2	4.75% Fixed Rate Notes Due 2022					
	Gross loan - Opening	2952.38	2952.38	2952.38	2952.38	2952.38
	Cumulative repayments of Loans	0.00	0.00	0.00	0.00	2952.38
	Net loan - Opening	2952.38	2952.38	2952.38	2952.38	0.00
	Addition					
	Repayments of Loans during the year	0.00	0.00	0.00	2952.38	0.00
	Net loan - Closing	2952.38	2952.38	2952.38	0.00	0.00
	Average Net Loan	2952.38	2952.38	2952.38	1476.19	0.00
	Rate of Interest on Loan	5.0215%	5.0215%	5.0215%	5.0215%	5.0215%
	Interest on loan	148.25	148.25	148.25	74.13	0.00
3	SBI-VII D-12					
	Gross loan - Opening	1700.00	1700.00	1700.00	1700.00	1700.00
	Cumulative repayments of Loans upto previous year	850.00	1062.50	1275.00	1487.50	1700.00
	Net loan - Opening	850.00	637.50	425.00	212.50	0.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	212.50	212.50	212.50	212.50	0.00
	Net loan - Closing	637.50	425.00	212.50	0.00	0.00
	Average Net Loan	743.75	531.25	318.75	106.25	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	0.0000%
	Interest on loan	61.36	43.83	26.30	8.77	0.00
4	SBI-VII D-16					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous year	1000.00	1250.00	1500.00	1750.00	2000.00
	Net loan - Opening	1000.00	750.00	500.00	250.00	0.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	250.00	250.00	250.00	250.00	0.00
	Net loan - Closing	750.00	500.00	250.00	0.00	0.00
	Average Net Loan	875.00	625.00	375.00	125.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	0.0000%
	Interest on loan	72.19	51.56	30.94	10.31	0.00
5	SBI VIII - T1 D1					
	Gross loan - Opening	6000.00	6000.00	6000.00	6000.00	5333.33
	Cumulative repayments upto previous year	0.00	0.00	0.00	666.67	1333.33
	Net loan - Opening	6000.00	6000.00	6000.00	5333.33	4000.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	666.67	666.67	666.67
	Net loan - Closing	6000.00	6000.00	5333.33	4666.67	3333.33
	Average Net Loan	6000.00	6000.00	5666.67	5000.00	3666.67
	Rate of Interest on Loan with monthly rests	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on loan	495.00	495.00	467.50	412.50	302.50

Signature

Calculation of Interest on Actual Loans

Name of the Company
Name of the Power Station

NTPC Ltd
Korba I&II

Sl. no.	Particulars	(Amount in lacs)				
		2019-20	2020-21	2021-22	2022-23	2023-24
6	SBI VIII - T1 D18					
	Gross loan - Opening	600.00	600.00	600.00	600.00	600.00
	Cumulative repayments upto previous year	0.00	0.00	0.00	66.67	133.33
	Net loan - Opening	600.00	600.00	600.00	533.33	466.67
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	66.67	66.67	66.67
	Net loan - Closing	600.00	600.00	533.33	466.67	400.00
	Average Net Loan	600.00	600.00	566.67	500.00	433.33
	Rate of Interest on Loan with monthly rests	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on loan	49.50	49.50	46.75	41.25	35.75
7	PNB III - T1 D4					
	Gross loan - Opening	10000.00	10000.00	10000.00	10000.00	10000.00
	Cumulative repayments upto previous year	0.00	0.00	0.00	1111.11	2222.22
	Net loan - Opening	10000.00	10000.00	10000.00	8888.89	7777.78
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	1111.11	1111.11	1111.11
	Net loan - Closing	10000.00	10000.00	8888.89	7777.78	6666.67
	Average Net Loan	10000.00	10000.00	9444.44	8333.33	7222.22
	Rate of Interest on Loan with monthly rests	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on loan	830.00	830.00	783.89	691.67	599.44
8	PNB III - T1 D4					
	Gross loan - Opening	40000.00	40000.00	40000.00	40000.00	40000.00
	Cumulative repayments upto previous year	0.00	0.00	0.00	4444.44	8888.89
	Net loan - Opening	40000.00	40000.00	40000.00	35555.56	31111.11
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	4444.44	4444.44	4444.44
	Net loan - Closing	40000.00	40000.00	35555.56	31111.11	26666.67
	Average Net Loan	40000.00	40000.00	37777.78	33333.33	28888.89
	Rate of Interest on Loan with monthly rests	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on loan	3320.00	3320.00	3135.56	2766.67	2397.78
9	PNB III - T1 D4					
	Gross loan - Opening	9000.00	9000.00	9000.00	9000.00	9000.00
	Cumulative repayments upto previous year	0.00	0.00	0.00	1000.00	2000.00
	Net loan - Opening	9000.00	9000.00	9000.00	8000.00	7000.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	1000.00	1000.00	1000.00
	Net loan - Closing	9000.00	9000.00	8000.00	7000.00	6000.00
	Average Net Loan	9000.00	9000.00	8500.00	7500.00	6500.00
	Rate of Interest on Loan with monthly rests	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on loan	747.00	747.00	705.50	622.50	539.50
10	Bond 54 series					
	Gross loan - Opening	4400.00	4400.00	4400.00	4400.00	4400.00
	Cumulative repayments upto previous year	0.00	0.00	0.00	0.00	880.00
	Net loan - Opening	4400.00	4400.00	4400.00	4400.00	3520.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	0.00	880.00	1760.00
	Net loan - Closing	4400.00	4400.00	4400.00	3520.00	1760.00
	Average Net Loan	4400.00	4400.00	4400.00	3960.00	2640.00
	Rate of Interest on Loan with monthly rests	8.4900%	8.4900%	8.4900%	8.4900%	8.4900%
	Interest on loan	373.56	373.56	373.56	336.20	224.14

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Calculation of Interest on Actual Loans

Name of the Company **NTPC Ltd**
 Name of the Power Station **Korba I&II**

Sl. no.	Particulars	(Amount in lacs)				
		2019-20	2020-21	2021-22	2022-23	2023-24
	Total					
	Gross loan - Opening	75413.62	75413.62	75413.62	75413.62	74746.95
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	74060.21	73383.51	72706.81	64741.22	55228.96
	Repayments of Loans during the year	676.70	676.70	7965.59	8845.59	9725.59
	Net loan - Closing	73383.51	72706.81	64741.22	55895.63	45503.37
	Average Net Loan	73721.86	73045.16	68724.01	60318.42	50366.16
	Rate of Interest on Loan	8.1468%	8.1645%	8.1765%	8.1817%	8.2029%
	Interest on loan	6005.97	5963.76	5619.25	4935.07	4131.49

Note:-

- 1) LIC III Rate of interest includes upfront fees of 0.0158% (i.e. 0.20%*1.103%/14years).
- 1) SBI VII Rate of interest includes upfront fees of 0.0075% (i.e. 0.08%*1.1236%/12years).

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Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Name of the Petitioner:- NTPC Ltd.

Name of the Generating Station:-Korba Stage I & II

S.No.	Particulars	Unit	Oct-18		Nov-18		Dec-18	
			Domestic Coal (i)	Imported Coal (ii)	Domestic Coal (i)	Imported Coal (ii)	Domestic Coal (i)	Imported Coal (ii)
1	Quantity of coal supplied by the coal Company (includes Opening Stock)	(MT)	1170086.05	0.00	1248200.99	0.00	1205255.87	0.00
2	Adjustment (+/-) in quantity supplied by the coal Company	(MT)	0.00	0.00	0.00	0.00	0.00	0.00
3	Coal supplied by the Coal Company (1+2)	(MT)	1170086.05	0.00	1248200.99	0.00	1205255.87	0.00
4	Normative transit & handling losses	(MT)	2,565.19	0.00	2623.67	0.00	2763.93	0.00
5	Net coal supplied (3-4)	(MT)	1167520.86	0.00	1245577.33	0.00	1202491.94	0.00
6	Amount charged by the coal company	(Rs.)	2032092923	0.00	2100915760	0.00	2012867323	0.00
7	Adjustment (+/-) in amount charged by the coal Company	(Rs.)	-18285853.00	0.00	0	0.00	18077091	0.00
8	Total amount charged (6+7)	(Rs.)	2013807070	0.00	2100915760	0.00	2030944414	0.00
9	Transportation charges by Rail / Ship / Road Transport	(Rs.)	10738438	0.00	6362950	0.00	24693554	0.00
10	Adjustment (+/-) in amount charged by Railways / Transport Company	(Rs.)		0.00		0.00		
11	Demurrage charges, if any	(Rs.)		0.00		0.00		
12	Cost of diesel in transporting coal through MGR system	(Rs.)	11793379	0.00	12419844	0.00	10780178	
13	Total Transportation Charges (9+-10-11+12)	(Rs.)	22531817	0.00	18782794	0.00	35473732	0.00
13A	Other Charges	(Rs.)	22734347	0.00	25528368	0.00	52283346	0.00
14	Total amount charged for coal supplied including transportation (8+13)	(Rs.)	2059073234	0.00	2145226921	0.00	2118701491	0.00
15	Landed cost of coal	(Rs./MT)	1763.629	0.00	1722.275	0.00	1761.926	0.00
16	Blending Ratio	%	100.00%	0.00%	100.00%	0.00%	1.00	0.00
17	Weighted Avg Cost of Coal	(Rs./MT)	1763.629		1722.275		1761.926	
18	GCV of Domestic Coal as per bill of coal company, EQ Basis	(kcal/kg)	4035.00		3897.00		3506	
19	GCV of Imported Coal as per bill of coal company	(kcal/kg)		0.000		0		0
20	Weighted average GCV of Coal as Billed	(kcal/kg)	4035.00		3897		3506	
21	GCV of Domestic Coal as received at Station, TM Basis	(kcal/kg)	3452.00		3523.00		3252	
22	GCV of Imported Coal as received at Station	(kcal/kg)		0.00		0		0
23	Weighted average GCV of Coal as received at station	(kcal/kg)	3452.00		3523		3252	

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S. V. (Petitioner)

Form-18

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges.

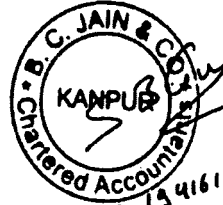
Name of the Petitioner:- NTPC Ltd.

Name of the Generating Station:- Korba Stage I & II

S.No.	Particulars	Unit	Oct-18		Nov-18		Dec-18	
			Domestic Coal	Imported Coal	Domestic Coal	Imported Coal	Domestic Coal	Imported Coal
1	Quantity of coal supplied by the coal Company (includes Opening Stock)	(MT)	1170088.06	0.00	1248200.99	0.00	1205255.87	0.00
2	Adjustment (+/-) in quantity supplied by the coal Company	(MT)	0.00	0.00	0.00	0.00	0.00	0.00
3	Coal supplied by the Coal Company (1+2)	(MT)	1170088.06	0.00	1248200.99	0.00	1205255.87	0.00
4	Normative transit & handling losses	(MT)	2565.19	0.00	2623.87	0.00	2763.93	0.00
5	Net coal supplied (3-4)	(MT)	1167522.86	0.00	1245577.33	0.00	1202491.94	0.00
6	Amount charged by the coal company	(Rs.)	2032092923	0.00	2100915780	0.00	2012857323	0.00
7	Adjustment (+/-) in amount charged by the coal Company	(Rs.)	-18285883.00	0.00	0	0.00	18077091	0.00
8	Total amount charged (6+7)	(Rs.)	2013807070	0.00	2100915780	0.00	2030944414	0.00
9	Transportation charges by Rail / Ship / Road Transport	(Rs.)	10738438	0.00	6382950	0.00	24693554	
10	Adjustment (+/-) in amount charged by Railways / Transport Company	(Rs.)		0.00		0.00		
11	Demurrage charges, if any	(Rs.)		0.00		0.00		
12	Cost of diesel in transporting coal through MGR system	(Rs.)	11793379	0.00	12418844	0.00	10780178	
13	Total Transportation Charges (9+10-11+12)	(Rs.)	22531817	0.00	18782794	0.00	35473732	0.00
13A	Other Charges	(Rs.)	22734347	0.00	25528368	0.00	52283348	0.00
14	Total amount charged for coal supplied including transportation (8+13)	(Rs.)	2059073234	0.00	2145228921	0.00	2118701491	0.00
15	Landed cost of coal	(Rs./MT)	1763.829	0.00	1722.275	0.00	1761.926	0.00
16	Blending Ratio	%	100.00%	0.00%	100.00%	0.00%	1.00	0.00
17	Weighted Avg Cost of Coal	(Rs./MT)	1763.829		1722.275		1761.926	
18	GCV of Domestic Coal as per bill of coal company, EQ Basis	(kcal/kg)	4035.00		3897.00		3506	
19	GCV of Imported Coal as per bill of coal company	(kcal/kg)		0.000		0		0
20	Weighted average GCV of Coal as Billed	(kcal/kg)	4035.00		3897		3506	
21	GCV of Domestic Coal as received at Station, TM Basis	(kcal/kg)	3452.00		3523.00		3252	
22	GCV of Imported Coal as received at Station	(kcal/kg)		0.00		0		0
23	Weighted average GCV of Coal as received at station	(kcal/kg)	3452.00		3623		3252	

Anuj Kaur

अनुज कौर
ANUJ KASH
B.P.E. (वि. उ. सेवा)
AGM (P.A.)
प. उ. सेवा, प. अ. - II, सीक
602, WR-II, SIPAT



UDIN 13416155 AAAAC 4684

S. K.

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Details of information to be submitted in respect of Secondary Fuel for Computation of Energy Charges

NTPC LIMITED

KORBA SUPER THERMAL POWER STATION (KSTPS)

		October-18	November-18	December-18
Sl.No.	Particulars	HFO	HFO	HFO
	Unit			
1	Quantity of oil supplied by Oil Company*	4169.520	4071.520	3610.520
2	Value of Oil *	158307159	154586323	137083205
3	Adjustment (+/-) in quantity supplied made by Oil Company	0.00	0.00	0.00
4	Oil supplied by Oil Company	0.00	0.00	0.00
5	Normative transit & Handling losses	0.00	0.00	0.00
6	Net Oil supplied (4-5)	0.00	0.00	0.00
7	Amount charged by the Oil Company	0.00	0.00	0.00
8	Adjustment (+ / -) in amount charged by Oil Company	0.00	0.00	0.00
9	Total Amount charged (7+8)	0.00	0.00	0.00
10	Transportation charges by Rail / Ship / Road Transport	0.00	0.00	0.00
11	Adjustment (+/-) in amount charged by railways / transport company	0.00	0.00	0.00
12	Demurrage charges, if any	0.00	0.00	0.00
13	Cost of diesel in transporting Oil through MGR system, if applicable	0.00	0.00	0.00
14	Total transportation charges (10+/- 11 - 12 + 13)	0.00	0.00	0.00
15	Others- Entry Tax on oil	0.00	0.00	0.00
16	Total amount charged for Oil supplied including transportation (14 + 15)	0.00	0.00	0.00
17	Landed Cost of Oil (HFO/LDO) (2+16) / (1+6)	37968	37968	37968
18	Weighted average GCV of Oil as fired	10118.00	10169.00	10118.00
19	Weighted average rate of Secondary Fuel	37967.72	37967.72	37967.72

*including opening stock

(Petitioner)

Computation of Energy Charges

Name of the Company	NTPC Limited
Name of the Power Station	Korba Super Thermal Power Station Stage-I&II

Computation of Energy Charges

1 Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh)

$$= (Q_s)_h \times P_s$$
 1.898

2 Heat Contribution from SFO / Alternate Fuel (H_p)

$$= (Q_s)_h \times (GCV)_s$$
 5.068

3 Heat Contribution from coal (H_p)_s

$$= GHR - H_s$$
 2396.36

4 Specific Primary Fuel Consumption (Q_p)_h

$$= H_p / (GCV)_p$$
 0.721

5 Rate of Energy charge from Primary Fuel (p/kwh) (REC)_p
 126.077

6 Rate of Energy charge ex-bus (p/kWh) (REC)

$$= ((REC)_s + (REC)_p) / (1 - (AUX))$$
 137.667

	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 %	7.04	7.04	7.04	7.04	7.04
Heat Rate Kcal/Kwh	2,401.43	2,401.43	2,401.43	2,401.43	2,401.43

Computation of Variable Charges

Variable Charge (Coal) p/kwh	135.625	135.625	135.625	135.625	135.625
Variable Charge (Oil) p/kwh	2.042	2.042	2.042	2.042	2.042
Total p/kwh	137.667	137.667	137.667	137.667	137.667

Price of fuel from Form-15/15A

Coal Cost (Rs./MT)	1748.82	1748.82	1748.82	1748.82	1748.82
Oil Cost (Rs./KL)	37967.72	37967.72	37967.72	37967.72	37967.72

Computation of Fuel Expenses for Calculation of IWC:

ESO in a year (MUs)	14575.61	14535.78	14535.78	14535.78	14575.607
ESO for 40 days (MUs)	1592.963	1592.963	1592.96	1592.96	1592.963
Cost of coal for 45 Days (Rs. Lakh)	21604.54	21604.54	21604.54	21604.54	21604.54
Cost of oil for 2 months (Rs. Lakh)	496.09	494.74	494.74	494.74	496.09
Energy Expenses for 45 days (Rs. Lakh)	24671.08	24671.08	24671.08	24671.08	24671.08

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	1763.63	1722.28	1761.93	1748.82
Wtd. Avg. GCV of Coal as received kCal/Kg	3452	3523	3252	3409.00
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg				
Sec. Oil				3324.00
Wtd. Avg. Price of Secondary Fuel Rs/KL	37967.72	37967.72	37967.72	37967.72
Wtd. Avg. GCV of Secondary Fuel kCal/L	10118.00	10169.00	10118.00	10135.00

SAW
PETITIONER

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Korba STPS I&II (2100 MW)**Statement of Capital cost**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	273410.43	4328.76	269081.67
	b) Amount of IDC in A(a) above	3177.60		
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above	1001.56		
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
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			

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(Petitioner)

Name of the Petitioner
Name of the Generating Station

NTPC Ltd
Korba STPS I&II (2100 MW)

Statement of Capital Woks in Progress

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	14813.01	1565.70	13247.30
	b) Amount of IDC in A(a) above	876.59		
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above	105.58		
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
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			

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(Petitioner) 

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Korba Super Thermal Power Station Stage-I&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	91,503.79	91,016.04	91,016.04	91,562.04	91,562.04	91,562.04		
2	Cumulative repayment of Normative loan up to previous year	91,487.67	90,996.09	90,996.09	90,996.09	91,322.52	91,322.52		
3	Adj. in repayment due to liability discharge*	6.18							
4	Adj. in repayment due to decap*	497.76							
5	Net Normative loan – Opening	16.12	19.95	19.95	565.95	239.51	239.51		239.51
6	Add: Increase due to addition during the year / period	-497.20	-	546.00	-	-	-		-
7	Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00		0.00
8	Less: Decrease due to reversal during the year / period								
9	Add: Increase due to discharges during the year / period	9.44	0.00	0.00	0.00	0.00	0.00		0.00
10	Less: Repayment of Loan	0.00	-	-	326.43	-	-		-
11	Net Normative loan - Closing	19.95	19.95	565.95	239.51	239.51	239.51		239.51
12	Average Normative loan	18.03	19.95	292.95	402.73	239.51	239.51		239.51
13	Weighted average rate of interest	7.7407	8.1468	8.1645	8.1765	8.1817	8.1817		8.2029
14	Interest on Loan	1.40	1.63	23.92	32.93	19.60	19.60		19.65
15	Cumulative repayment of Normative loan at the end of the period after adjustments	90,996.09	90,996.09	90,996.09	91,322.52	91,322.52	91,322.52		91,322.52

* Additional data

Calculation of Interest on Working Capital

Name of the Company :	NTPC Limited
Name of the Power Station :	Korba Super Thermal Power Station Stage-I&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	14,698.56	21604.54	21604.54	21604.54	21604.54	21604.54
2	Cost of Main Secondary Fuel Oil	566.66	496.09	494.74	494.74	494.74	496.09
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	5,385.12	5389.36	5578.58	5774.18	5977.71	6186.45
6	Maintenance Spares	12,924.30	12934.46	13388.58	13858.03	14346.50	14847.49
7	Receivables	35,636.06	34973.76	35301.79	35650.30	35923.87	36215.98
8	Total Working Capital	69210.69	75398.22	76368.23	77381.79	78347.36	79350.56
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500
10	Interest on Working Capital	9343.44	9085.49	9202.37	9324.51	9440.86	9561.74

Petitioner 

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Undischarged liabilities relating to GB 31.03.2019
A Items allowed till 2008-09				
1	Indure	Ash Handling system	2003-04	44,61,579
2	Indure	Ash Handling system	2007-08	96,57,941
3	BIW-ST-I	Cost Adjustment To assets Cont Liab-Arbitrtion Cases - BIW-STI	2006-07	7,09,182
4	G S Agarwal	CIVIL WORKS FOR STARTER ASH DYKE LAGI- Arb. Award	2008-09	1,25,23,000
Sub Total Liability of allowed items till 2008-09 A				2,73,51,702
B Items allowed in 2009-14 period				
5	Bihar constr.	evac of dry ash	2011-12	4,95,227
6	NEELKANTHAM SYSTEMS PVT LTD	Capacity Creation by evacuation	2012-13	46,75,858
7	B B VERMA	MISCELLANEOUS RCC WORKS FOR CONSTRUCTION	2013-14	19,89,601
8	DINESH CONSTRUCTION	FUGITIVE DUST CONTROL IN DHANRAS ASH DYK	2013-14	2,87,531
9	EDWARD ENTERPRISES		2013-14	88,206
10	RATTAN ENTERPRISES		2013-14	0
11	NEW INDIA ENGINEERING		2013-14	1,39,054
Sub Total Liability of allowed items in 2009-14 period B				76,75,477
C Items allowed/ new claims in 2014-19 period				
12	CEMS - Main Equipment	ANALYSER INSTRUMENT CO PVT LTD	2015-16	3,55,117
13		ANALYSER INSTRUMENT CO PVT LTD	2015-16	67,416
Sub Total Liability of items allowed/ new claims in 2014-19 period C				4,22,533
Total Liability of disallowed/ not claimed items				
14		modification of fire water	2011-12	72,636
15	CITY BUILDING SERVICES	SI Civil-Extention of OPD&Lab Block at	2013-14	64,832
16	Capital Spares	Capital Spares	2013-14	8,86,542
Sub Total Liability of disallowed/ not claimed items till 2013-14 D				10,24,010
E Items not claimed/Not allowed in 2014-19 period				
17	SHREE OM CONSTRUCTION	Civil Works related to DDCMIS R&M	2014-15	3,02,060
18	I D GUPTA	PRVD & FIXNG ACID RES.TILE UNIT-4- R&M	2014-15	37,539
19	SIPL	Buttressing and Strengthening Ash Dyke	2014-15	1,80,00,726
20	5TH RAISING OF LGN-1 AFTER ITS BUTRESING	SIPL	2015-16	1,09,10,943
21	GARLANDING WORK OF 450NB PIPE OF LG-1	ASHOKA ENGG WORKS	2015-16	3,49,437
22	BISWAS ENTERPRISES	Stage-I DDCMIS CIVIL	2015-16	80,636
23	Ren. & Mod. of C&I system of stage- I	BHEL	2015-16	60,13,343
24	Ren. & Mod. of C&I system ST-II	Siemens	2015-16	26,34,684
25	R&M of stage-I Generator Protect System	ABB Ltd	2015-16	3,34,500
26	Repl of 6.6 KV Power Cables in ST-I	PROMODH ELECTRICALS CO.	2015-16	4,565
27	SUPPLY AND ERECTION OF SINGLE MODE OPTICAL FIBRE CABLE	K2 INFOSYS	2015-16	4,03,689
28	Capital Spares	Capital Spares	2015-16	42,85,782
29	MBOA	MBOA	2015-16	0
30	PROMODH ELECTRICALS CO.	Generator Protection Cabling.	2016-17	1,00,324
31	ROHINI TRANSPORT CORPORATION	Ren of empty rail from T-18 (52KG,72UTS)	2016-17	11,646

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Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Undischarged liabilities relating to GB 31.03.2019
32	BHARAT HEAVY ELECTRICALS LIMITED/ JYOTI CATERERS	Ren. & Retrofitting of ESP Stage-I&II	2016-17	21,91,29,942
33	FLOWMORE LTD	Repl of Traveling Water Screen	2016-17	69,000
34	LAXMI ENGINEERING INDUSTRIES	Repl. St-I Min Tur Oil Cooler tube nest ass	2016-17	1,11,650
35	BISWAS ENTERPRISES	Stage-I DDCMIS CIVIL	2016-17	63,520
36	B B KAR	Stage-II DDCMIS CIVIL	2016-17	2,06,414
37	SIPL	Strengt / Buttres Dyke at Dhanras	2016-17	60,299
38	SCHNEIDER ELECTRIC INFRASTRUCTURE	Supp and retrof of 3-pole vacuum Stage-I	2016-17	60,08,850
39	BIPIN KUMAR	watch tower inside Plant	2016-17	84,158
40	MBOA		2016-17	10,85,574
41	Capital Spares		2016-17	30,85,591
42	5th Raising of Lag-1A&1B after its Butt	SIPL	2016-17	45,44,423
43	Con. of conyvor dual dri into sin. Drive	TEERUPATI CORPORATION	2017-18	1,50,000
44	Ren. & Mod. of C&I system of stage- I	BHEL	2017-18	63,58,107
45	Ren. & Retrofitting of ESP Stage- I&II	BHARAT HEAVY ELECTRICALS LIMITED/ JYOTI CATERERS	2017-18	2,84,93,788
46	Repl. of insul.n and alum cladding sheet	W B CONSTRUCTION CO	2017-18	3,47,983
47	SFG GAS HANDLING PLANT: B058R03; DILO	CROMPTON GREAVES LTD	2017-18	13,375
48	Stage-II DDCMIS CIVIL	B B KAR	2017-18	4,01,170
49	6th Raising of Lagoon 1	KANWAR ENTERPRISES PVT LTD	2017-18	85,37,170
50	MBOA		2017-18	3,60,077
51	Capital Spares		2017-18	47,29,577
52	6th Raising of Lagoon 1	KANWAR ENTERPRISES PVT LTD	2018-19	2,81,742
53	Capital spares		2018-19	3,55,68,931
54		K2 INFOSYS	2018-19	8,57,353
55	Capitalisation of MBOA- Communication Equipment	Proqility Technologies Pvt Ltd	2018-19	16,55,980
56		TECHNOWARE SYSTEMS INDIA (P) LTD	2018-19	87,11,350
57	Capitalisation of MBOA- EDP/WP/SATCom equipments	Agc Networks Ltd	2018-19	2,939
58		CSPL COMPUTERS PVT LTD	2018-19	1,93,201
59		K2 INFOSYS	2018-19	3,01,136
60		VARELI TECNAC PVT LTD	2018-19	56,72,320
61		ASHOK & COMPANY	2018-19	70,623
62	Capitalisation of MBOA- Furniture & Fixture	ENERGY EFFICIENCY SERVICES LTD	2018-19	1,08,84,239
63		Godrej & Boyce Mfg Co Ltd	2018-19	8,43,411
64		ALPANA FITNESS ZONE	2018-19	744
65		CREATIVE COMMUNICATION	2018-19	31,684
66		Godrej & Boyce Mfg Co Ltd	2018-19	17,15,896
67		GULATI ELECTRONICS	2018-19	1,43,896
68		INDUSTRIAL LINK	2018-19	13,664
69	Capitalisation of MBOA- Other Office Equipments	INTERACTIVE DATA SYSTEMS LIMITED	2018-19	5,51,574
70		J.S. ENTERPRISES	2018-19	81,310
71		K2 INFOSYS	2018-19	24,759
72		MOHANAM DISTRIBUTORS PVT. LTD.	2018-19	28,560
73		PAYAL ENTERPRISES	2018-19	3,95,153
74		PREMIER VENTURES (PROP: MRS KOPAL	2018-19	8,99,456
75		PROGILITY TECHNOLOGIE	2018-19	2,10,061
76		Proqility Technologies Pvt Ltd	2018-19	5,46,516
77	Capitalisation of MBOA- Plant & Machinery	DELTA POWER SOLUTION INDIA	2018-19	2,30,100
78		MASS-TECH CONTROLS PVT LTD	2018-19	51,920
79		MT and T Limited	2018-19	1,79,453
80	Effluent Treatment Plant in Hospital	CRAFT CONSULTANTS	2018-19	83,000
	Sub Total Liability of not claimed items during 2014-19 period E			39,75,41,513
	Total of Liabilities allowed/ new claims F=A+B+C			3,54,49,712
	Total of Liabilities disallowed/ not claimed G=D+E			39,85,65,523
	Grand Total of Liabilities F+G			43,40,15,235

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Summary of issue involved in the petition

Name of the Company :		NTPC Limited					
Name of the Power Station :		Korba Super Thermal Power Station Stage-I&II					
1	Petitioner:	NTPC Limited					
2	Subject	Approval of tariff of Korba STPS Stage-I& II (2100 MW) for the period from 01.04.2019 to 31.03.2024					
3	Prayer:	<p>i) Approve tariff of Korba-I&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) Pass any other order as it may deem fit in the circumstances mentioned above.</p>					
4	Respondents	Seven(7) no. respondents					
5	Name of Respondents	<p>1.MSEDCL, Maharashtra</p> <p>2.GUVNL, Gujarat</p> <p>3.MPPMCL, Madhya Pradesh</p> <p>4. CSPDCL, Chhattisgarh</p> <p>5.Electricity Deptt, Goa</p> <p>6.Electricity Deptt, DD</p> <p>7. DNH Power Distribution Corporation Ltd-DNH</p>					
Cost (Approved cost) (In Rs Crore)							
Claim		2019-20	2020-21	2021-22	2022-23	2023-24	
AFC (Rs Lakh)			103746.54	106178.29	109005.08	111224.01	113849.90
Capital cost(Rs Lakh)			1,78,108.78	1,78,498.78	1,78,888.78	1,78,888.78	1,78,888.78
Initial spare		N.A.					
NAPAF (Gen)		85%					
Any Specific							
Petitioner							


भारत का राजपत्र
The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 25 जनवरी, 2016

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

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

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

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

1. उक्त अधिसूचना के पैरा 1 में-

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

2. उक्त अधिसूचना के पैरा 2 में:-**(क) उप पैरा (1) के पश्चात् निम्नलिखित परंतुक अंतःस्थापित किया जाएगा, अर्थात्:-**

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

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

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

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

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

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

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

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

[फा. सं. 9-8/2005-एचएसएमडी]

बिश्वनाथ सिन्हा, संयुक्त सचिव

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

MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 25th January, 2016

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(11) The Ministry of Agriculture may consider the promotion of ash utilisation in agriculture as soil conditioner."

5. The time period to comply with the above provisions by all concerned authorities is 31st December, 2017. The coal or lignite based thermal power plants shall comply with the above provision in addition to 100 % utilization of fly ash generated by them before 31st December, 2017.

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

BISHWANATH SINHA, Jt. Secy.

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

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