Petition No:		
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Kahalgaon STPS Stage-I (4x210MW)

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 *Kahalgaon STPS Stage-I (840MW)* for the period from 01.04.2019 to 31.03.2024.

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BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.....

IN THE MATTER OF

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Kahalgaon STPS Stage-I (840MW) 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

- Bihar State Power (Holding) Company Ltd. erstwhile Bihar State Electricity Board Vidyut Bhawan, Bailey Road Patna – 800 021
- Jharkhand Bijlee Vitaran Nigam Ltd., Engineering Building, HEC Township, Dhurwa, Ranchi – 834 004
- GRIDCO Ltd.
 Janpath,
 Bhubaneswar 751007
- West Bengal State Electricity Distribution Company Limited
 Vidyut Bhawan, Block-DJ, Sector-II, Salt Lake City Kolkata – 700 091

Show

- Power Department Govt. of Sikkim Kazi Road, Gangtok Sikkim-737101
- Assam Power Distribution Company Ltd. Bijulee Bhawan, Paltan Bazar Guwahati-781001.
- Tamil Nadu Generation and Distribution Corporation Limited NPKRP Maaligail 800, Anna Salai Chennai – 600002
- Uttar Pradesh Power Corp. Limited Shakti Bhawan
 Ashok Marg Lucknow – 226001
- Rajasthan Urja Vikas Nigam Limited (RUVNL)
 Vidyut Bhawan, Janpath,
 Jaipur 302 005 (Rajasthan)
 (On Behalf of Jaipur Vidyut Vitran Nigam Ltd. (JVVN),
 Ajmer Vidyut Vitran Nigam Ltd. (AVVN) & Jodhpur
 Vidyut Vitran Nigam Ltd. (JdVVN))
- Power Development Department (J&K)
 Govt. of J&K Secretariat,
 Srinagar
- Haryana Power Purchase Centre (HPPC) Shakti Bhawan, Sector-VI, Panchkula Haryana-134109
- 13. BSES Rajdhani Power Ltd. BSES Bhawan, Nehru Place New Delhi-110019
- BSES Yamuna Power Ltd. Shakti Kiran Bldg., Karkardooma Delhi
- Tata Power Delhi Distribution Ltd. NDPL House, Hudson Lane, Kingsway Camp Delhi-110009.

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The Petitioner humbly states that:

5)

- 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.
- 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.
- The Petitioner is having power stations/ projects at different regions and places in the country Kahalgaon Super Thermal Power Station, Stage-I (840 MW) (hereinafter referred to as Kahalgaon-I) is one such station located in the State of Bihar. The power generated from Kahalgaon-I is being supplied to the respondents herein above.
- 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.
- "(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated

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

additional capital expenditure for the respective years of the tariff period 2019-24 along

lango

with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014."

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

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

- The tariff of the Kahalgaon-I for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 30.07.2016 in Petition No. 279/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 30th Oct 2019 had filed a separate true up petition for the period 01.04.2014 to 31.03.2019 for revision of tariff in line with the applicable provisions of Tariff Regulations 2014.
- 7) It is submitted that Hon'ble Commission vide order dated 30.07.2016 in Petition no 279/GT/2014 has allowed a capital cost of Rs 221991.65 Lakhs as on 31.03.2019 based on the admitted projected capital expenditure for the 2014-19 period. However, the actual closing capital cost as on 31.03.2019 has been worked out in the fore said true-up petition as Rs. 222465.31 Lakhs based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. 473.66 Lakhs from the admitted capital cost as on 31.03.2019 and the opening capital cost as on 01.04.2019 has been considered as Rs 222465.31 Lakhs in the instant petition. The Hon'ble Commission may be pleased to 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 cost 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 under Regulation 19 and Regulation, 25 and 26 of the Tariff Regulations, 2019.

- Petitioner further respectfully submits that as per Regulation 35(1)(6) of the Tariff Regulations 2019, the water charges, security expenses and capital spares consumed for thermal generating stations are to be allowed separately. Presently water charges are not billed by the concerned authority for consumptive water in the instant station, accordingly it is not being claimed in the instant petition. However as and when the same is billed by the Authority and paid by the Petitioner, the Petitioner shall approach the Hon'ble Commission for claim of the same.
- 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 the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24
- 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.
- 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 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 truing —up exercise for the period 2014-19 in terms of Regulation 8 of the 2014 Tariff Regulations along with all details / information, duly certified by auditor."

The expenditure towards the ash transportation charges are recurring in nature. The Petitioner has been incurring ash transportation expenditure in some of its stations in the current tariff period also. In case the same is permitted to be recovered at the end of the tariff period 2019-24, there will be additional liability on the beneficiaries 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. CMS 1106438370 on 22.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd. 25.04.2019. For the subsequent years, the fees 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 recovery of 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 that the Petitioner has served a 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:

- Approve tariff of Kahalgaon STPS Stage-I 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

Place: New Delhi Date: 24.01.2020

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.....

IN THE MATTER OF

Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of *Kahalgaon STPS Stage-I (840MW)* 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:

Bihar State Power (Holding) Company Ltd. erstwhile Bihar State Electricity Board

Vidyut Bhawan, Bailey Road

Patna - 800 021

.....and others

Affidavit

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

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

Deponent

Verification

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

affirmed belt

Verified at New Delhi on this day 29th January 2020.

Deponent

& explained to the deponent

2 9 JAN 2020

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF FOR

Kahalgaon Super Thermal power Station Stage-I (From 01.04.2019 to 31.03.2024)

PART-I
APPENDIX-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	1
FORM -1 (I)	Statement showing claimed capital cost	1
FORM -1 (II)	Statement showing Return on Equity	1
FORM-2	Plant Characteristics	1
FORM-3	Normative parameters considered for tariff computations	1
FORM-3A**	Statement showing O&M Expenses	1
FORM-3B**	Statement of Special Allowance	1
FORM- 4	Details of Foreign loans	
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	1
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	1
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	1
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	- 1
FORM-9	Statement of Additional Capitalisation after COD	1
FORM- 10	Financing of Additional Capitalisation	1
FORM- 11	Calculation of Depreciation on original project cost	1
FORM- 12	Statement of Depreciation	. 1
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	1
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	1
FORM- 15	Details of Fuel for Computation of Energy Charges	1
FORM- 15A	Details of Seconday Fuel for Computation of Energy Charges	1
FORM- 15B	Computation of Energy Charges	1
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	***

^{**} Additional Forms

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

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	V
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	1
FORM-O	Calculation of Interest on Working Capital	1
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	1

^{***} Shall be provided at the time of true up

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PART-I

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
	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.	
2	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
	Detailed note giving reasons of cost and time over run, if applicable.	
	List of supporting documents to be submitted:	
	a. Detailed Project Report	NIA
7	b. CPM Analysis	NA
	c. PERT Chart and Bar Chart	
	d. Justification for cost and time Overrun	
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	***
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	***
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

^{***} Shall be provided at the time of true up

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PART-I FORM- 1

Summary of Tariff

Name of the Petitioner:	NTPC Limited	46-125
Name of the Generating Station:	Kahalgaon Super Thermal power Station Stage-I	D WING
Place (Region/District/State):	Eastern Region/ Bhagalpur/ Bihar	THE PARTY HAVE

S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23*	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	6,784.64	7,955.99	9,352.44	7,570.69	1,770.30	382.95
1.2	Interest on Loan	Rs Lakh	0.00		-			
1.3	Return on Equity	Rs Lakh	21,146.22	20,219.85	20,355.36	20,507.30	13,003.74	13,027.72
1.4	Interest on Working Capital	Rs Lakh	8,074.79	5,580.08	5,660.68	5,692.99	5,552.47	5,591.96
1.5	O&M Expenses	Rs Lakh	31,018.53	28996.66	30102.08	31245.81	32454.35	33703.95
1.6	Special Allowance (If applicable)	Rs Lakh	0.00	497.38	4311.60	7313.18	7980.00	7980.00
1.7	Compensation Allowance (If applicable – relevant for column 4 only)	Rs. Lakh	840.00					
The state of	Total	Rs Lakh	67864.18	63249.96	69782.17	72329.97	63152.50	60686.57
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton			2671			
	(%) of Fuel Quantity	(%)			100)		
2.2	Landed Fuel Cost Imported Coal	10000000		10 E 12 S1 P		CALL STORY	25-10-10-10-10-10-10-10-10-10-10-10-10-10-	- e/ /w
	(%) of Fuel Quantity	1 1 1 1 1 1 1 1 1 1			NA			
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton			NA			
	(%) of Fuel Quantity	(%)						
2.4	Landed Fuel Cost Imported Coal other than FSA.				NA			
	(%) of Fuel Quantity	The starte			West of Service			
2.5	Secondary fuel oil cost	Rs/Unit			0.01	99		
	Energy Charge Rate ex-bus (Paise/kWh) 2A, 2B, 2C, 2D	Rs/Unit			2.28	36		

^{*} AFC for 2022-23 includes unrecoverd depreciation due to disincentive Rs. 2391.64 lakhs

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						PART-I FORM- 1(I
To.	Name of the Petitioner:	NTPC Limited	d			
5 10	Name of the Generating Station:	Kahalgaon Su	per Thermal	power Station	Stage-I	
					Amount	in Rs. Lakh
	Statement showing	g claimed capi	tal cost - (A	<u>+B)</u>		
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	222,465.31	224,965.31	228,621.31	231,704.31	232,555.31
2	Add: Addition during the year/period	2,500.00	3,656.00	3,083.00	851.00	Towns as
3	Less: De-capitalisation during the year/period					-
4	Less: Reversal during the year / period			residuit :		
5	Add: Discharges during the year/ period					
6	Closing Capital Cost	224,965.31	228,621.31	231,704.31	232,555.31	232,555.31
7	Average Capital Cost	223,715.31	226,793.31	230,162.81	232,129.81	232,555.31
	it to age cupital cost	223,713.31	220,775.51	250,102.01	232,127.01	202,000.01
	Statement showing claimed cap	ital cost eligibl	e for RoE at	normal rat	e (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	222465.31	224965.31	228621.31	231704.31	232555.3
2	Add: Addition during the year / period	2500.00	3656.00	3083.00	851.00	0.0
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.0
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	224965.31	228621.31	231704.31	232555.31	232555.3
7	Average Capital Cost	223715.31	226793.31	230162.81	232129.81	232555.3
		al loan portfol	io (B)			
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	On an inter Comittel Cont	3	0.00	5 0.00	0.00	7
1	Opening Capital Cost	0.00		0.00		
2	Add: Addition during the year / period	0.00	0.00	0.00	0.00	0.0
2	I D to the desired and a standard		0.001	0.00	0.00	0.0
3	Less: De-capitalisation during the year / period			0.00	0.00	0.0
3	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
3 4 5	Less: Reversal during the year / period Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.0
3	Less: Reversal during the year / period	0.00	0.00			0.00 0.00 0.00

(Petitioner)

	Name of the Petitioner:	NTPC Limite	ed			
la a	Name of the Generating Station:	Kahalgaon S	uper Therma	l power Statio	on Stage-I	
1 0	Statement showing Return o	n Equity at No	ormal Rate			
Jan 1					Amount	in Rs. Lakh
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
97	Return on Equity					No.
1	Gross Opening Equity (Normal)	107,280.48	108,030.48	109,127.28	110,052.18	110307.4789
2	Less: Adjustment in Opening Equity			75-114	J. San	
3	Adjustment during the year	in vineral (%)	0.00	0.00	40540.89	40540.89
4	Net Opening Equity (Normal)	107,280.48	108,030.48	109,127.28	69,511.29	69,766.59
5	Add: Increase in equity due to addition during the year / period	750.00	1096.80	924.90	255,30	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)	108,030.48	109,127.28	110,052.18	69,766.59	69,766.59
11	Average Equity (Normal)	107,655.48	108,578.88	109,589.73	69,638.94	69,766.59
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	20,219.85	20,393.29	20,583.14	13,079.59	13,103.56

	Name of the Petitioner:	NTPC Limite	d			
	Name of the Generating Station:	Kahalgaon Su	per Thermal	power Statio	n Stage-I	
N.	Statement showing Return	on Equity at N	ormal Rate			
980					Amount	in Rs. Lakh
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
500	Return on Equity (beyond the original scope of work excluding	additional capit	alization 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 (%)	10.162	10.164	10.168	10.171	10.175
13	Total ROE	0.00	0.00	0.00	0.00	0.00

	ristics			FORM
Plant Characte	INTPC Limite			
Name of the Petitioner Name of the Generating Station		o aper Thermal	nower Station	Stage-I
Name of the Generating Station	Jikaningaon St	aper American	poner Station	Dinge 1
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III	Unit-IV
Installed Capacity (MW)	210	210	210	210
Schedule COD as per Investment Approval			Jan III	100
Actual COD /Date of Taken Over (as applicable)	1-Jan-95	1-Apr-95	1-Feb-95	1-Aug-96
Pit Head or Non Pit Head	PIT HEAD	PIT HEAD	PIT HEAD	PIT HEAD
Name of the Boiler Manufacture	BBP(USSR)	BBP(USSR)	BBP(USSR)	BBP(USSF
Name of Turbine Generator Manufacture	LMZ(USSR)	LMZ(USSR)	LMZ(USSR)	LMZ(USSF
Main Steams Pressure at Turbine inlet (kg/Cm²) abs¹.	W. N. 197			
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 keal/kbr)	(NOT APP	LICABLE	
% MCR				
% Makeup Water Consumption Design Capacity of Make up Water System(% of throttle steam flow)				
Design Capacity of Make up Water System of thiotile steam flowy				
Design Cooling Water Temperature (°C)				
Back Pressure(Average condenser pressure in mmHg(A))				
Steam flow at super heater outlet under BMCR condition (tons/hr)	1			
Steam Pressure at super heater outlet under BMCR condition)	1			
(kg/Cm ²)				
Steam Temperature at suner heater outlet under BMCR condition (°C) Steam Temperature at Reheater outlet at BMCR condition (°C)				
Design / Guaranteed Boiler Efficiency (%) ⁴	9 = = =			
Design Fuel with and without Blending of domestic/imported coal				
GCV) Domestic Design coal				
Blended Coal (Domestic Design 70%+ Imported 30%)				
Type of Cooling Tower		INDUCEI	DRAFT	
Type of cooling system 5	(LOSED CIRC	UIT COOLING	3
Type of Boiler Feed Pump ⁶	B- 62	MOTOR	DRIVEN	
Fuel Details ⁷		MOTOR	J.G.T.LA	
Primary Fuel	Coal	Coal	Coal	Coal
Secondary Fuel	HFO	HFO	HFO	HFO
Alternate Fuels				
Special Features/Site Specific Features ⁸		MERRY GO RO	UND SYSTEM	
Special Technological Features ⁹				
Environmental Regulation related features 10	1 ESP is	provided 2.FGE	under implem	entation
Any other special features	1.001.0	1		
: At Turbine MCR condition.				
with 0% (Nil) make up and design Cooling water temperature				
3: at TMCR output based on gross generation, 0% (Nil) makeup and design	n Cooling water t	emperature.		
: With Performance coal based on Higher Heating Value (HHV) of fuel a	nd at BMCR) out	put		
Closed circuit cooling, once through cooling, sea cooling, natural draft c	ooling, induced d	raft cooling etc		
6: Motor driven, Steam turbine driven etc.				
7: Coal or natural gas or Naptha or lignite etc.		SHOW HAVE AND ADDRESS OF THE PARTY OF THE PA		
Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intal			rubbers etc. Sp	ecify all suc
 Any Special Technological feature like Advanced class FA technology in 	n Gas Turbines, e	etc.	- 1	
0: Environmental Regulation related features like FGD, ESP etc.,				xhib

(PETITIONE

PART-I FORM- 3

Normative	narameters	considered	for tariff	computations	

Name of the Petitioner:	NTPC Limited							
Name of the Generating Station:	Kahalgaon Super Thermal power Station Stage-I							
	(Year Ending Ma							
Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
	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** \$\$	%		8.386	8.388	8.391	8.393	8.397	
Effective Tax Rate	%	21.5488	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)	%	- 16	•	85.00	85.00	85.00	85.00	
Peak Hours	%	-	-	85.00	85.00	85.00	85.00	
Off-Peak Hours	%			85.00	85.00	85.00	85.00	
Auxiliary Energy Consumption	%	9.00	9.00	9.00	9.00	9.00	9.00	
Gross Station Heat Rate	kCal/kWh	2450.00	2430.00	2430.00	2430.00	2430.00	2430.00	
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		24.75					
Liquid Fuel Stock for WC2	in Months			T LIGHT		7-11-1		
O&M Expenses	Rs lakh/MW	0	32.96	34.12	35.31	36.56	37.84	
Maintenance Spares for WC	% of O&M	20.00	20.00	20.00	20.00	20.00	20.00	
Receivables for WC	in Days	60	45	45	45	45	45	
Storage capacity of Primary fuel	MT	0			0			
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			1					

^{**} Rate of Return on Add - cap beyong original scope and excluding Change in Law

Petitioner

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

Part-I FORM-3A ADDITIONAL FORM

					ADDITION	AL FORM
	Calcula	tion of O&M	1 Expenses			
Name	of the Company:	NTPC Limit	ed			
Name	of the Power Station :	Kahalgaon S	Super Therm	al power Sta	ation Stage-I	
					Amount in	n 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	27686.40	28660.80	29660.40	30710.40	31785.60
2	O&M expenses under Reg.35(6)					
2a	Water Charges*	0.00	0.00	0.00	0.00	0.00
2b	Security expenses#	1310.26	1441.28	1585.41	1743.95	1918.35
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
3 400	Total O&M Expenses	28996.66	30102.08	31245.81	32454.35	33703.95

^{**} Shall be provided at the time of truing up #Subject to true-up

Petitioner

^{*}Presently water charges are not billed by the concerned authority for consumptive water in the instant station.

However as and when the same is billed by the Authority and paid by the Petitioner, the Petitioner shall approach the Hon'ble Commision for claim of the same. Hon'ble Commision may please allow the same

PART-I FORM-3B Additional Form

Computation of Special Allowance

Name of the Company:	NTPC Limited	1000
Name of the Power Station :	Kahalgaon Super Thermal power Station Stage-I	

late of S	Special allo	wance @lal	kh/MW/year		9.5				
						ALIEN PROPERTY		(Rs. Lakh)
Unit	Capacity	Date of	Year of completion of useful		Special Allowance as per Clause 28			28	
No.	(MW)	COD	life of 25	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	210	1-Jan-95	2019-20	0.00	497.38	1995.00	1995.00	1995.00	1995.00
2	210	1-Apr-95	2020-21	0.00	0.00	1995.00	1995.00	1995.00	1995.00
3	210	1-Feb-96	2020-21	0.00	0.00	321.60	1995.00	1995.00	1995.00
4	210	1-Aug-96	2021-22	0.00	0.00	0.00	1328.18	1995.00	1995.00
ear wi	se Total for	r the Statio	n	0.00	497.38	4311.60	7313.18	7980.00	7980.00

Petitioner

Abstract of Admitted Capital Cost f	or the existing Projec	<u>ts</u>
Name of the Company: NTPC Limited		
Name of the Power Station: Kahalgaon Super Thermal power Station (Control of the Power Station)	wer Station Stage-I	
Last date of order of Commission for the project	Date (DD-MM-YYYY)	30.07.2016
Reference of petition no. in which the above order was passed	Petition no.	279/GT/2014
Following details (whether admitted and /or considered) as on the lawhich tariff is approved, in the above order by the Commission:	ast date of the period for	
Capital cost		221991.6
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross Normative Debt	(Rs. in lakh)	114853.2
Cumulative Repayment		114853.2
Net Normative Debt		
Normative Equity		107138.3
Cumulative Depreciation		180220.73
Freehold land		3196.9

gr

			PART 1 FORM- 5A
Abstr	ract of Claimed Capital C	ost for the existing Projects	
Name of the Company:	NTPC Limited		
Name of the Power Station :	Kahalgaon Super Thermal p	ower Station Stage-I	
Reference of Final True-up Tari	ff Petition	Affidavit dated	30th Oct'2019
Capital Cost as on 31.03.2019 as Order dated 30.07.2016 In Pet. 1		Rs. Lakhs	221991.65
Adjustment as per Para (7) of th	is petition		473.66
Following details as considered final true-up tariff is claimed:	by the Petitioner as on the last of	date of the period for which	473.00
Capital cost as on 01.04.2019			222465.31
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)			
Amount of un-discharged liability admitted capital cost (but not for cost being allowed on cash basis	rming part of admitted capital	(a) : 1.11)	
Gross Normative Debt		(Rs. in lakh)	115184.83
Cumulative Repayment			115184.83
Net Normative Debt			0.00
Normative Equity			107280.48
Cumulative Depreciation			176714.03
Freehold land			4824.4
			(Petitioner)

<u>Particulars</u>	<u>54</u>	<u>57</u>
Source of Loan1	BONDS	BONDS
Currency2	INR	INR
Amount of Loan sanctioned	1030683	50000
Interest Type6	Fixed	Fixed
Fixed Interest Rate, if applicable*	8.49%	8.19%
Base Rate, if Floating Interest7	N/A	N/A
Margin, if Floating Interest8	N/A	N/A
Are there any Caps/Floor9	No	No
If above is yes, specify caps/floor	N/A	N/A
Moratorium Period10	8	10
Moratorium effective from #	25-03-15	15-12-15
Repayment Period11	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment
Repayment effective from	25-03-23	15-12-25
Repayment Frequency12	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment
Repayment Instalment13,14	Installments 1st - 206,136.61 2nd - 412,273.22 3rd - 412,273.22	50000

N/A

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

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N/A

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Base Exchange Rate16 Door to Door Maturity

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

Name of the Projects		
Anantpur Solar	5,600	
ANTA		
AURAIYA		
Auraiya R & M		1,400
Badarpur R&M	2,300	-,,,,,
BARH I	74,883	8,900
BARH II	63,500	-
Bhadla Solar	-	
BONGAIGAON	54,000	500
Chatti Bariatu CMB	8,100	
Dadri Gas R & M	600	The section and
DADRI GAS		
DARLIPALLI	49,200	
Dulanga CMB		
FARAKKA II		
FARAKKA III	10,900	
Farakka R & M	2,000	
FARIDABAD		
GADARWARA	81,000	2,000
GANDHAR		PO POR TOTAL
Gandhar R &M	4,300	800
Kahalgaon II Phase I		1.2
Kahalgaon II Phase II	1,800	12
Khstpp R & M	2,000	500
KAWAS		•
Kawas R & M	1,400	
Khargone	45,000	3,000
KOLDAM	25,100	3,700
KORBA III	9,200	500
Korba R & M	4,400	
Kudgi	123,300	
LARA I	53,300	13,700
Lata Tapovan	1,600	
LOHARINAGPALA		
Mauda	21,900	
Mauda II	45,800	-
Mandsaur Solar		- 19 - 31
NCTPP		
NCTPP II	11,000	500
NCTPP R & M	3,700	
NORTH KARANPURA	12,400	-
Pakri Barwadih CMB	26,600	800

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Ramagundam I & II R & M	2,400	
RAMAGUNDAM III		
Rammam	3,100	
RIHAND II		
RIHAND III	28,300	800
Rihand R & M	2,500	
SIMHADRI	-	7 1 1 1 1 1 1
Simhadari II	26,800	1,000
Simhadari R & M	900	1,000
Vidhyachal Hydro**	1,900	
Singrauli R & M	1,600	
Vindyachal Solar**	4,800	
SIPAT I	20,500	1,400
SIPAT II	20,500	- 1,100
SOLAPUR	70,300	
TALCHER I		
TALCHER II	12,000	700
Tanda II	9,000	400
Tanda R & M	- 1	
Tapovan Vishnugad	26,400	
Telangana		NAME OF THE PARTY.
TSTPP R & M	1,600	1,000
TTPS R & M	1,000	TOTAL STREET
Unchahar R & M	3,400	
Unchahar IV	17,400	4,800
UNCHAHAR II		e produktora z
Unchahar III		
VINDHYACHAL II		
Vindhyachal III		
Vindhyachal IV	17,200	500
Vindhyachal V	33,500	2,200
Vindhyachal R & M	1,200	900
DADRI SOLAR		THE WELL COMPANY
A&N SOLAR		
RAMAGUNDAM SOLAR		
TALCHER SOLAR		
UNCHAHAR SOLAR		
FARIDABAD SOLAR		-
RAJGARH SOLAR		
Talaipali Coal Mine		
CC		
TOTAL	1,030,683	50,000
* Excluding survilance cost 0.03%	0.00	0.00

* Excluding survilance cost 0.03%

0.00

0.0

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

TRANCHE NO

BP NO 5050000442	TOOOO1	D00018		
		D00010		
Un	secured Loan From SBI-VIII			
Source of Loan:	SBI-VIII			
Currency:	INR			
Amount of Loan :	100,000,000,000			
Total Drawn amount :	1,500,000,000			
Date of Drawl	21.04.2016			
Interest Type :	Floating			
Fixed Interest Rate :				
Base Rate, If Floating Interest	D00018-8.25%			
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		
Troject code	BONGAIGAON	700,000,000		
	UNCHAHAR-IV	50,000,000		
	RAMAGUNDAM R&M	150,000,000		
	TSTPS R&M	210,000,000		
	GANDHAR R&M	80,000,000		
	KORBA R&M	60,000,000		
	DADRI GAS R&M	100,000,000		
	UNCHAHAR R&M	50,000,000		
	BADARPUR R&M	50,000,000		
	KAHALGAON R&M	50,000,000		
Total Allocated	Amount	1,500,000,000		

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	Form 8 TRANCHE NO			
BP NO 5050000521	TOOOO1	D00004		
	red Loan From HDFC Bank LtdIV	- 120 SECURIO		
	tu Dum From Her Comment			
Source of Loan:	HDFC Bank LtdIV	THE PROPERTY.		
Currency:	INR			
Amount of Loan:	20,000,000,000			
Total Drawn amount :	12,450,000,000			
Date of drawl	29.06.2018			
Interest Type :	Floating			
Fixed Interest Rate :	110			
Base Rate, If Floating Interest	8.45%			
Margin, If Floating Interest:	NIL			
Are there any Caps/ Floor:	Y/N			
Frequency of Intt. Payment	MONTHLY			
If Above is yes, specify Caps/ Floor:				
Moratorium Period :	3 Years			
Moratorium effective from :	29.06.2018			
Repayment Period (Inc Moratorium):	12 Years			
Repayment Frequency:	9 Yearly Instalment			
Repayment Type :	AVG			
First Repayment Date :	17.04.2021			
Base Exchange Rate :	RUPEE			
Date of Base Exchange Rate:	N.A.			
No. of the contract of the con	Darling Manage	A		
Project Code	Project Name KORBA R&M	Amount		
	The state of the s	900,000,000		
	RAMAGUNDAM R&M	700,000,000		
	UNCHAHAR R&M RIHAND R&M	900,000,000		
	KAWAS R&M	1,800,000,000		
	AURAIYA R&M	1,800,000,000		
	TSTPP R&M	900,000,000		
	GANDHAR R&M	1,850,000,000		
	NCTPP R&M	300,000,000		
	KAHALGAON R&M	300,000,000		
	ANTA R&M	800,000,000		
Total Allocated		12,450,000,000		

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Statement Giving Details	of Project Financed through a Co	ombination of loan			
	Form 8 TRANCHE NO				
BP NO 5050000531	T00001	D0009			
	secured Loan From SBI-IX	D000)			
O.	isecured Loan From SBI-IA				
Source of Loan:	SBI-IX				
Currency:	INR				
Amount of Loan :	30,000,000,000				
Total Drawn amount :	2,000,000,000				
Date of Drawal:	27.06.2018				
	Floating				
Interest Type : Fixed Interest Rate :	rioating				
process and the process of the proce	71777-1-711710-1-1-1-1-1-1-1-1-1-1-1-1-1				
Base Rate, If Floating Interest	8.25%				
Margin, If Floating Interest:	0.00%				
Are there any Caps/ Floor :	Y/N				
Frequency of Intt. Payment	Monthly				
If Above is yes, specify Caps/ Floor:					
Moratorium Period :	3 Years				
Moratorium effective from :	27.06.2018				
Repayment Period (Inc Moratorium):	12 Years				
Repayment Frequency:	9 Yearly Installments				
Repayment Type:	AVG				
First Repayment Date :	31.03.2021	No.			
Base Exchange Rate:	RUPEE				
Date of Base Exchange Rate :	N.A.				
Project Code	Project Name	Amount			
	DADILI	250 000 000			
	BARH-I	250,000,000 300,000,000			
	TANDA II				
	TELANGANA	300,000,000			
	RAMAGUNDAM R&M	250,000,000			
	TALCHER STPP R&M	400,000,000			
	KAHALGAON R&M	200,000,000			
	PAKRI BARWADIH CMB	300,000,000			
Total Allocated	Amount	2,000,000,000.00			

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Statement Giving Details	of Project Financed through a Com	bination of loan				
	Form 8					
	TRANCHE NO	D00004				
BP NO 5050000661	T00001	D00004				
Ui	nsecured Loan From SBI-XI					
C CI	ONI VI					
Source of Loan :	SBI-XI					
Currency:	INR					
Amount of Loan :	50,000,000,000					
Total Drawn amount :	8,000,000,000					
Date of Drawal:	22.11.2018					
Interest Type :	Floating					
Fixed Interest Rate :						
Base Rate, If Floating Interest	8.35%					
Margin, If Floating Interest:	0.00%					
Are there any Caps/ Floor:	Y/N					
Frequency of Intt. Payment	Monthly					
If Above is yes, specify Caps/ Floor:						
Moratorium Period :	3 Years					
Moratorium effective from:	22.11.2018					
Repayment Period (Inc Moratorium):	12 Years					
Repayment Frequency:	9 Yearly Installments					
Repayment Type :	AVG					
First Repayment Date :	01.10.2022					
Base Exchange Rate :	RUPEE					
Date of Base Exchange Rate :	N.A.					
Project Code	Project Name	Amount				
	BARH-I	400,000,000				
	TAPOVAN VISHNUGARI	110,000,000				
	BONGAIGAON	110,000,000				
	SOLAPUR	200,000,000				
	LARA-I	500,000,000				
	GADARWARA	550,000,000				
	NORTH KARANPURA	360,000,000				
	DARLIPALLI	400,000,000				
	TANDA-II	100,000,000				
	KHARGONE	750,000,000				
	TELANGANA	750,000,000				
	TALAIPALI COAL MINE	70,000,000				
	RAMAGUNDAM I & II R&	360,000,000				
	VINDHYACHAL R&M	140,000,000				
	FARAKKA R&M	100,000,000				
	KAHALGAON R&M	100,000,000				
	KHARGONE	2,000,000,000				
	TELANGANA	1,000,000,000				
Total Allocated A	Amount	8,000,000,000.00				

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PART-I FORM- 9A Additional Form

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner
NTPC Limited
Name of the Generating Station
Kahalgaon Super Thermal power Station Stage-I
COD
01-08-96
For Financial Year
2019-24 (Summary)

Amount in Rs Lakh

		ACE Claimed (Actual / Projected)						Ато			
SI. No.	Head of Work /Equipment	2019-20	2020-21	2021-22	2022-23	2023-24	Regulations under which claimed	Justification	Cost by the Commission of any		
1	2	3	4	5	6	7	NOT THE PARTY OF T	The state of the s	9		
A.	Works under Original scope,	Change in L	aw etc. eligh	le for RoE a	t Normal R	ate					
1	Ash Dyke/ Ash Handling		1346				25(1) (c) & 25(1)g	The said amount has been projected against the Ash Dyke raising and associated work within the original scope of work. The Hon'ble Commission may be pleased to allow the capitalization of ash dyke work under Regulation 25 (1) (g) (Raising of Ash Dyke work as a part of ash disposal system) of Tariff Regulation 2019			
2	Drain Separation and Toe water Drain System	500	810				26 (I) b	As per Gazette notification (Copy Attached at Annexure-A) by Ministry of Water Resources, River Development, and Ganga Rejuvenation dated 7th October,2016 of clause 6(2) "No person shall discharge, directly or indirectly, any untreated or treated trade effluent and industrial waste, Bio medical waste or other hazardous substances into the River Ganga or its tributaries or on their banks". Accordingly, Drain separation and Toe water drain is being installed to comply the statutory direction. The Hon'ble commission may be please to allow the same under change in law.			
3	Dry Ash Extraction system Unit-3&4		1500	2,383.00			26(1) b & 2 % (1)(e)	Hon'ble Commisssion has allowed Dry Ash extraction system under "Change in law" during 2016-17. This work Contract was awarded to agency in March'16. However, the work could not be capitalized during 2014-19 period due to implementation of GST. Due to total reform of taxt Structure, the contract was reviewed for tax purpose. Agency was unable to raises invoices for interim billing and faced the shoratge of cash flow, which resulted to delay in dispatches of materials. Therfore, the work got delayed due to uncontrollable reasons. The work is expected to be completed in the 2019-24 period. The Hon'ble commissio may be pleased to allow the same work.			
4	400 KV/ 132 KV Switchyard extension package	2,000		700	851		26 (I) b	Hon'ble commission has allowed 400KV Bus splitting work under 14(3)(ii) with 14(3)(ix) for safe and reliable operation of the Grid vide order dtd. 21.01.2017 in 283/GT/2014 of Kahalgaon Stage-II. However, as the bus splitting is related to both Stages (i.e. Stage-I and Stage-II) of Kahalgaon STPS, the total expenditure is apportioned pro rata based on the capacity of Stage-I (840 MW) and Stage-II (1500MW) of Kalagaon STPS in the same order. Accordingly, 400KV Buses have been splitted at Kahalgaon STPS Switchyard. But, The station auxiliary supply could not be segregted due to unavailability of ICT at site. Segregation of the station auxiliary supply is equally critical at site in view of overcoming the phase difference which may arise between Unit & Station power supply in Stage-II under the splitted bus scenario. Station auxiliary supply segregation could not be done due to non availability of ICT at site on account of non performance of the vendor M/s EMCO Ltd. M/s EMCO could not meet theschedule of the project. Further, M/s EMCO Limited, Thane had stopped responding with regards to the subject package and on the associated issues. Thereafter the contract of M/s EMCO has been terminated. Petitioner has been tendering to award the contract to new supplier and work is expected to be completed in the year 2019-20. Hon'ble Commission may be please to allow the same.			
	Total (A)	2,500.00	3,656.00	3,083.00	851.00	THE RES					
B.	Works beyond Original scop	e extuding ad	d-cap due to	Change in	Law eligble	for RoE at	Wtd. Average rate of	Interest	- Page 10 - 2		
5		MONO.	SEE DON!	121 (0)					PRESV		
6	Total (B)		111160116		1 1 5 A.C.		0 4201 100		STATE OF		
	Add. Cap. Claimed (A+B)	2,500.00	3,656,00	3,083.00	851.00						

					aar wica Sta	tement of Add	litional Canitalization often COD	
Van	ne of the Petitioner					tement of Aut	ntional Capitalisation after COD	
_	ne of the Generating Station					I namer Station	Stone I	
CO	- A				uper Therma	power Station	Stage-1	
	Financial Year	7 7 7						0 11 37
101	Financial Teal		Taran and and	2019-20				
SI.	Head of Work /Equipment		ACE Cla	med (Actual / Pro	instad)	Danilations under	Amou	
No.	read of Work Acquipment	Accrual basis as per IGAAP	Un-discharged	Cash basis	IDC included in col. 3	which claimed	Justification	Cost by the
1	2	3	4	5= (3-4)	6	7	8	9
A.	Works under Original scope, Change	in Law etc. eligble	Accrual basis as per IGAAP Liability included in col. 3 Cash basis col. 3 Liability included in col. 3 Commission, if any					
1	Drain Separation and Toe water Drain System	500	0	504	0	26(1) (b)	Ganga Rejuvenation dated 7th October,2016 of clause 6(2) "No person shall discharge, directly or indirectly, any untreated or treated trade effluent and industrial waste, Bio medical waste or other hazardous substances into the River Ganga or its tributaries or on their banks". Accordingly, Drain separation and Toe water drain is being installed to	
2	400 KV/ 132 KV Switchyard extension package	2000	0	200	0	26 (1) b	operation of the Grid vide order dtd. 21.01.2017 in 283/GT/2014 of Kahalgaon Stage-II. However, as the bus splitting is related to both Stages (i.e Stage-I and Stage-II) of Kahalgaon STPS, the total expenditure is apportioned pro rata based on the capacity of Stage-I (840 MW) and Stage-II (1500MW) of Kalagaon STPS in the same order. Accordingly, 400KV Buses have been splitted at Kahalgaon STPS Switchyard. But, The station auxiliary supply could not be segregted due to unavailability of ICT at site. Segregation of the station auxiliary supply is equally critical at site in view of overcoming the phase difference which may arise between Unit & Station power supply in Stage-II under the splitted bus scenario. Station auxiliary supply segregation could not be done due to non availability of ICT at site on account of non performance of the vendor M/s EMCO Ltd. M/s EMCO could not meet theschedule of the project. Further, M/s EMCO Limited, Thane had stopped responding with regards to the subject package and on the associated issues. Thereafter the contract of M/s EMCO has been terminated. Petitioner has tendering to award the contract to new supplier and work is expected to be completed in the year 2019-20. Hon'ble Commission may be please to allow the	
	Total (A)					L SILES LIVE		
B.	Works beyond Original scope exluding add	cap due to Change in	Law eligble for RoE at 1	Vtd. Average rate of	Interest			
4				THE REAL PROPERTY.	100			July Inter
-	Total (B)	-				The Control of the Control		DTITIES
Total	Add. Cap. Claimed (A+B)	2,500.00		2,500.00		Service State of the Service S	The state of the s	

				,	ear wise St	atement of Ad	ditional Capitalisation after COD	PART- FORM-
Van	me of the Petitioner	THE SALE		NTPC Limite		atement of its	Christian Christian and COD	
Van	me of the Generating Station	400 H () () ()	0.000 0.000 0.000 0.000	The second secon		l power Station	Stano-I	
COL		St. 470.00 ya	DESCRIPTION OF THE PERSON OF T	01-08-96	per ruerma	power Station	Stage-1	
or	Financial Year	has take a		2020-21	5 7	WITH YOUR PLACE		
01						45010	Amou	int in Rs Lak
SI.	Head of Work /Equipment			med (Actual / Proj	ected)	Regulations under		Admitted
NO.		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	which claimed	Justification	Cost by the Commission if any
1	2	3	4	5= (3-4)	6	7	The state of the s	n any
A	Works under Original scope, Change	in Law etc. eligble	e for ReE at Normal	Rate		ALL REPORTS		
1	Drain Separation and Toe water Drain System	810	0	810		26(1)ъ	Refer Form-9 (2019-20) Sl.No.1	
2	Ash Dyke/ Ash Handling	1346		1346		25(1) (e) & 25 (1)(g)	The said amount has been projected against the Ash Dyke raising and associated work within the original scope of work. The Hon'ble Commision may be pleased to allow the capitalization of ash dyke work under Regulation 25(1) (c) & 25 (1) (g) (Raising of Ash Dyke work as a part of ash disposal system) of Tariff Regulation 2019	
3	Dry Ash Extraction system Unit-384	1500	0	1500		26(1) (b) & 2 6 (1)(c)	Hon'ble Commisssion has allowed Dry Ash extraction system under "Change in law" during 2016-17. This work Contract was awarded to agency in March'16. However, the work could not be capitalized during 2014-19 period due to implementation of GST. Due to total reform of taxt Structure, the contract was reviewed for tax purpose. Agency was unable to raises invoices for interim billing and faced the shoratge of cash flow, which resulted to delay in dispatches of materials. Therfore, the work got delayed due to uncontrollable reasons. The work is expected to be completed in the 2019-24 period. The Hon'ble commissio may be pleased to allow the same work.	
	Total (A)	3,656,00		3,656,00		211-12-3		
B.	Works beyond Original scope exluding add-		Law eligble for RoE at W			A WENTER	The state of the s	
4								
5	Total (B)			100				
-t-I	Add. Cap. Claimed (A+B)	3,656,00	-	3,656,00	- :			1.50

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		Year wise	Statement of	Additional C	apitalisatio	n after COD		PART- FORM-			
Nan	ne of the Petitioner			NTPC Limite							
Van	ne of the Generating Station			Kahalgaon Super Thermal power Station Stage-I 01-08-96							
COI	<u> </u>										
	Financial Year			2021-22							
							Am	ount in Rs Lak			
SI. No.	Head of Work /Equipment		ACE Cla	imed (Actual / Proje	ected)	Regulations under which claimed	DEVILORE REPORT	Admitted			
		Accrual basis as per IGAAP	Un-discharged		IDC included in col. 3		Justification	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. eligble	for RoE at Normal	Rate	N PART OF STREET	V Milyson a state		61 100 110 0			
1	400 KV/ 132 KV Switchyard extension package	700	0	700		26(1) b	Refer Form-9 (2019-20) Sl.No.2				
2	Dry Ash Extraction system Unit-3&4	2383	0	2383		26(1) (b) & 2 6 (1)(e)	Refer Form-9 (2020-21) Sl.No.3				
	Total (A)	3,083.00	•	3,083.00	TANK TO THE STREET						
В.	Works beyond Original scope exluding add-	cap due to Change in l	Law eligble for RoE at \	Vtd. Average rate of l	nterest						
3	En Charles Andrew Charles Control Cont		With the property	A FILL Y INVENERA			The transfer of the state of the				
7	Total (B)					CALL THE WAY TO SO IC					
Total .	Add. Cap. Claimed (A+B)	3,083,00		3,083.00							

(Petitioner)

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	v	N
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1/11/11/11			Year wise Stat	ement of Ad	ditional Ca	pitalisation aft	er COD	FORM-
ame o	of the Petitioner			NTPC Limite	d			AL ESTABLISHED
ame o	of the Generating Station			Kahalgaon Su	per Therma	power Station	Stage-I	TVI ATTEM
OD		1		01-08-96		Market Photogram		
THE R. LEWIS CO., LANSING, MICH.	nancial Year			2022-23	THE PERSON N			Transfer and
								Amount in Rs Lak
SI.	Head of Work /Equipment			aimed (Actual / Projected)		Regulations under		Admitted
No.		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	which claimed	Justification	Cost by the Commission if any
1	2	3	4	5= (3-4)	6	7	8	9
A. Wo	orks under Original scope, Change	in Law etc. eligble	for RoE at Normal I	Rate	W NEEDS			
	0 KV/ 132 KV Switchyard extension ckage	851	0	851		26(1) b	Refer Form-9 (2019-20) Sl.No.2	
Tota	al (A)	851.00		851.00		AT THE RESIDENT		
	rks beyond Original scope exluding add-	cap due to Change in I	aw eligble for RoE at W	td. Average rate of I	nterest			
3					14-37-14	A PROPERTY OF		
	al (B)	-	100 100 100 21					
	Cap. Claimed (A+B)	851.00		851.00				

c . 9	
32	

		Year	wise Statemen	t of Additio	nal Capitalis	ation after COD		FORM-
Nam	e of the Petitioner			NTPC Limit		TWICTER AND UNIVERSAL TO		
Vam	e of the Generating Station	C. CH. O. C. C. HAVELE				power Station Stage	_T	
COD		STATES VIEW		01-08-96		power station stage		
For 1	Financial Year			2023-24				
SI.	Hard CW 4 /P 1			The hereby		No. of Texas Alexander		Amount in Rs Lak
No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	imed (Actual / Pro Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission if any
1	2	3	4	5= (3-4)	6	7	8	9
1 2	Works under Original scope, Chang	e in Law etc. eligble	for RoE at Normal I	Rate				
	Total (A)							
B.	Works beyond Original scope extuding ad-	d-cap due to Change in	Law eligble for RoE at	Wtd. Average rate	of Interest			MASS.
4			NA					1
	Total (B)				diam't but			
otal A	dd. Cap. Claimed (A+B)	dai 1511-611 avar•a	A DE PERCENTIAN		TANKS OF THE LAN	MANAGEMENT AND		
				-				(Pet



PART-I FORM- 12

Statement of Depreciation

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

010 X						(Amoun	t in Rs Lakh)
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Opening Capital Cost	220769.59	222,465.31	224,965.31	228,621.31	231,704.31	232,555.31
2	Closing Capital Cost	222465.31	224,965.31	228,621.31	231,704.31	232,555.31	232,555.31
3	Average Capital Cost	221617.45	223,715.31	226,793.31	230,162.81	232,129.81	232,555.31
la	Cost of IT Equipments & Software included in (1) above*						
2a	Cost of IT Equipments & Software included in (2) above*	PERMIT AND			10 10 10	- 1	2
3a	Average Cost of IT Equipments & Software*				18 July 18 4 4 1		
4	Freehold land	4,824.40	4,824.40	4,824.40	4,824.40	4,824.40	4,824.40
5	Rate of depreciation	NA	NA	NA	NA	NA	NA
6	Depreciable value	195,113.75	197,001.82	199,772.02	202,804.57	204,574.87	204,957.82
7.	Balance useful life at the beginning of the period	3.55	2.55	1.55	0.55		
8	Remaining depreciable value	24,085.47	20,287.78	15,101.99	8,391.32	1,770.30	382.95
9	Depreciation (for the period)	0.00	7,955.99	9,743.22	8,391.32	1,770.30	382.95
10	Depreciation (annualised)	6,784.64	7,955.99	9,743.22	8,391.32	1,770.30	382.95
11	Cumulative depreciation at the end of the period	1000	184,670.03	194,413.25	202,804.57	204,574.87	204,957.82
12	Less: Cumulative depreciation adjustment on account of un- discharged liabilities deducted as on 01.04.2009	0.00				- /	-
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	-	-		-	
14	Less: Cumulative depreciation adjustment on account of de- capitalisation	1,098.88				-	
15	Net Cumulative depreciation at the end of the period after adjustments	176,714.04	184,670.03	194,413.25	202,804.57	204,574.87	204,957.82

^{*} shall be claimed at the time of true-up



	Calculation of Interest on Act	tual Loans		T-1741		
	Carculation of interest on Act	idai Doans		THE PERSON		
iame of	the Company	NTPC Limited				May Hun &
ame of	the Power Station	Kahalgaon STPS Stag	e-I	V 0 0 2 0	1 H	
			200-00-	LIGHT LINE		
- 41		2019-20	2020-21	2021-22	2022-23	(Amount in lac
SL no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-2
1	Bond - 54					
	Gross loan - Opening	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
CYNE	Cumulative repayments		-			-
	Net loan - Opening Addition	2,000,00	2,000.00	2,000.00	2,000.00	2,000.0
	Repayments of Loans during the year					
	Net loan - Closing	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
	Average Net Loan	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
	Rate of Interest on Loan with monthly rests Interest on Ioan	8,5200% 170,40	8.5200% 170.40	8,5200% 170.40	8,5200% 170,40	8,52009 170,40
	interest on toan	170.40	170.40	170.40	170.40	170.4
2	Bond - 57			The state of		
	Gross loan - Opening	500,00	500.00	500.00	500.00	500,00
	Cumulative repayments	500.00	500.00	500.00	500.00	500.00
	Net loan - Opening Addition	300.00	300.00	300.00	300.00	300.00
	Repayments of Loans during the year					
	Net loan - Closing	500.00	500.00	500.00	500.00	500.00
TY ES	Average Net Loan	500.00	500.00 8,2200%	500.00 8.2200%	500.00 8.2200%	500.00 8.22009
	Rate of Interest on Loan with monthly rests Interest on loan	8.2200% 41.10	41.10	41.10	8.2200%	8.22009
		41.10	the state of the		TALAN	
3	SBI-VIII			A Part of the Control		
A STATE	Gross loan - Opening Cumulative repayments	500,00	500.00	500.00	500.00 55.56	500.00 111.11
	Net loan - Opening	500,00	500.00	500.00	444.44	388.89
	Addition	78AN FEBRUARY 1				
	Repayments of Loans during the year	10 E 1880 Sec. 1	Common to	55.56	55.56	55,56
	Net loan - Closing	500.00	500.00	444.44 472.22	388.89 416.67	333.33 361.11
	Average Net Loan Rate of Interest on Loan with monthly rests	8.2500%	8.2500%	8.2500%	8,2500%	8.25009
2000	Interest on loan	41.25	41.25	38.96	34.38	29,79
4	HDFC Bank LtdIV Gross loan - Opening	3,000.00	3,000.00	3,000.00	3,000.00	3,000.00
	Cumulative repayments	3,000.00	3,000.00	3,000,00	333.33	666.67
	Net loan - Opening	3,000.00	3,000.00	3,000.00	2,666.67	2,333.33
	Addition			333.33	333.33	333.33
	Repayments of Loans during the year Net loan - Closing	3,000.00	3,000.00	2,666.67	2,333.33	2,000.00
	Average Net Loan	3,000.00	3,000.00	2,833.33	2,500.00	2,166.67
	Rate of Interest on Loan with monthly rests	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on loan	253,50	253,50	239.42	211.25	183.08
5	SBI-IX					
	Gross loan - Opening	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
	Cumulative repayments			222.22	444.44	666.67
1100	Net loan - Opening Addition	2,000.00	2,000.00	1,777.78	1,555.56	1,333.33
	Repayments of Loans during the year		222.22	222,22	222.22	222.22
Secolar 1	Net loan - Closing	2,000.00	1,777.78	1,555.56	1,333.33	1,111.11
	Average Net Loan	2,000.00	1,888.89	1,666.67	1,444.44	1,222.22
	Rate of Interest on Loan with monthly rests Interest on loan	8.2500% 165.00	8.2500% 155.83	8.2500% 137.50	8.2500% 119.17	8.2500% 100.83
	Interest on ioan	105.00	155.65	137,30	117.17	100.03
6	SBI-XI			H-YIMI L		
493	Gross loan - Opening	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
3.2	Cumulative repayments Net loan - Opening	1,000.00	1,000.00	1,000.00	1,000.00	888.89
	Addition					
	Repayments of Loans during the year	1,000,00	1 000 00	1,000.00	111.11 888.89	777.78
	Net loan - Closing Average Net Loan	1,000.00	1,000.00	1,000.00	944.44	833.33
5.10.	Rate of Interest on Loan with monthly rests	8.3500%	8.3500%	8.3500%	8.3500%	8.3500%
	Interest on loan	83.50	83.50	83.50	78.86	69.58
Time	KITT III TELEVISION SERVICES				V = -1,4	
	TOTAL Gross loan - Opening	9,000.00	9,000.00	9,000.00	9,000.00	9,000.00
	Cumulative repayments	2,000.00	-	222.22	833.33	1,555.56
	Net loan - Opening	9,000.00	9,000.00	8,777.78	8,166.67	7,444.44
	Addition	- HARROW - E	0.00	611.11	722.22	722.22
171.7	Repayments of Loans during the year	9,000.00	222.22 8,777.78	611.11 8,166.67	722.22 7,444.44	6,722.22
	Net loan - Closing Average Net Loan	9,000.00	8,888.89	8,472.22	7,805.56	7,083.33
- 2	Rate of Interest on Loan	8.3861%	8.3878%	8.3907%	8.3934%	8.3971%
1000	Interest on loan	754.75	745.58	710.88	655.15	594.79

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	For Coal Stations							Annexure B
	Details/information	to be provided to	beneficiaries under c	lause (7) of Regul	lation 20			A CONTRACTOR
	of CERC (Terms & cond		THE RESERVE THE PARTY OF THE PA	adde (7) of negui	30			1
			SUBMITTED i.r.o FUE	I COR COMPU	***************************************	*******		
	DE TAILS /INT ONLY	ATION TO BE	SOBIMITIED I.F.O FUE	L FOR COMPU	ATION OF ENER	GY CHARGES		1
	NAME OF THE PETITIO	ONER :- NTPC LTD						
	NAME OF THE GENER			- Charact	AC 10-10-10-10-10-10-10-10-10-10-10-10-10-1			
	MONTH >	Oct-18	KARALGAUN	Stage-I				
	MONTHS	OG1-18			Suppl.by MGR	tic Coal	E-Auction coal	Import Coal
si no	Particulars			Unit	ээрргау ман	Suppl.by Rail		
1	Quantity of Coal su inclusive of opening	upplied by the (ng stock of coal	Coal Company	MT	505040.07			
11/2	Adjustment (+/-) in		COMPANY OF THE PARTY OF THE PAR		636348.87	385100.49		0.0
2	Company	dearwith public	ou by the coal	MT	570.11			
		oal Company in	clusive of opening	101	-579.11			-
3	stock of coal(1+2)			MT				
4	Navmathus to a la			The second secon	635769.76	385100.49		0.0
	Normative transit 8	k nandling loss	98	MT	-1272.70	-2649.36		0.0
5	4)		ning stock of coal (3	MT	634497.06	382451.13		0.0
6	Amount charged by value of opening st		pany inclusive of	Rs	1427697425	1147178176		
7	Adjustment (/) in	Ch						
	Total amount charg	amount Charge	d by coal Company	Rs	0	. 0		
8	coal (6+7)	jed inclusive of	opening stock of	Rs	1427697425	1147178176		
9	Tranportation charg	es by rail/ship/	road transport	Rs	0			
10	Adjustment(+/-) in a	Charles Vision Vision				80876073		
	railways/transport (Co		Rs	o	0		
11	Demurrage charges	if any		Rs	0	0		
12	Cost of diesel in tpt	coal through m	gr system			PE		
4014				Rs	11134997			
13	Total Trasportation	charges (9+/-1)	0-11+12)	Rs	11134997	80876073		
13A	Others (Stone Pickir Sampling Charges,	ng charges,Loc etc.)#	o driver's salary ,	Rs		39278244		
14	Total amount charge transportation (8+13	ed for Coal sup	plied including			38218244		
15	Landed Cost of Coal			Rs	1438832422	1267332492	0	0
15	Blending Ratio			Rs/MT	2661.0			0.00
17	Weighted average co	net of coal		% De/AIT		0.00		
	gou arerage ee	ust or coar		Rs/MT kcal/Kg		2661.0	6	
18	GCV of Domestic Co	al as per bill of	coal co.	(Equilibrated Basis)		3734		
19	GCV of Imported Coa	al as per bill of	coal co.	kcal/Kg (Air Dried Basis)		0		
20	Weighted average G	CV of Coal as B	illed	kcal/Kg		3734		
21	GCV of Domestic Co	al as received a	it Station	kcal/Kg (TM Basis)		3287		
22	GCV of Import Coal a	s received at S	tation	kcal/Kg (TM Basis)		0		
23	Weighted average GO	CV of Coal As R	eceived at station	kcal/Kg (TM Basis)		3287		

Additional data



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

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	For Coal Stations							Annexure B
	Details/information	to be provided to b	eneficiaries under cla	(7) of Down				
				I or negui	lation 30			
	of CERC (Terms & cond	ditions of tariff) Regula	etion 2014					
	DETAILS /INFORM	MATION TO BE SU	IBMITTED i.r.o FUEI	FOR COMPU	TATION OF ENER	GY CHARGES	Editori Editori	
	NAME OF THE DETITO	OMED MEDICAL				100		
	NAME OF THE PETITIO							
	NAME OF THE GENER		AHALGAON	Stage-I				
	MONTH :-	Nov-18			Domesti	ic Coal	E-Austion coal	Import Coal
si no	<u>Particulars</u>			Unit	Suppl.by MGR	Suppl.by Rail		
1	Quantity of Coal si inclusive of openir	upplied by the Co ng stock of coal	al Company	мт	70/4/5 00			
13.07	Adjustment (+/-) in	and the second s	t by the Coal	W 1	781445.00	313428.59		0
2	Company Coal supplied by C			MT	-600.00			
3	stock of coal(1+2)	coal Company Inc	lusive of opening	мт	780845.00	313428.59		0.
4	Normative transit &			МТ	-1562.89	-2507.43		
5	Net coal supplied i			/ 10	-1302.08	-2307.43		0.
	4)			MT	779282.11	310921.16		0.4
6	Amount charged by value of opening st	y the coal Compa tock of coal*	ny inclusive of	Rs	1700147758	1011207523		
7	Adjustment (+/-) in	amount Charged	by coal Company	Rs	0	0		
8	Total amount charg coal (6+7)	ged inclusive of o	pening stock of	Rs	1700147758	1011207523		
9	Tranportation charg	ges by rail/ship/ro	ad transport	Rs	0			
10	Adjustment(+/-) in a	mount charged b	A DET DESCRIPTION OF THE PARTY	Rs		134520164		
11	Demurrage charges				0	0	1	
	Cost of diesel in tpt	coal through ma	revetem	Rs	0	0		
12		and an ough mg	ayotom	Rs	****			
13	Total Trasportation	charges (9+/-10-	(1+12)	Rs	11134997	404500404		
13A	Others (Stone Pickir Sampling Charges,	ng charges,Loco			11134997	134520164		
	Total amount charge	ed for Coal suppli	ed including	Rs		37760894		
	transportation (8+13 Landed Cost of Coal		2 H 1 / 6 T (9)	Rs	1711282754	1183488582	0	
	Blending Ratio	A Company of the Comp		Rs/MT	2655.20	S .		0.00
	Weighted average co	net of cont		%		0.00		
-	Troightou average co	ost of coal		Rs/MT kcal/Kg		2655.2	6	
18	GCV of Domestic Co	al as per bill of co		(Equilibrated Basis)		3720		
19	GCV of Imported Coa Weighted average Go	al as per bill of co	al co.	Basis)		0		
	GCV of Domestic Co.	al as received at	Station	kcal/Kg		3720		
21				kcal/Kg (TM Basis)		3225		
22	GCV of Import Coal a	s received at Sta	tion	kcal/Kg (TM Basis)		0		
23 V	Weighted average GC	V of Coal As Bas		kcal/Kg (TM Basis)		3225		

Additional data



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	For Coal Stations .		The second second			11 A = 95		Annexure B
	Last P. College			G) 15	W 50		L	1
	Details/information	to be provided	to beneficiaries under clau	use (7) of Regula	ition 30		ι	
	of CERC (Terms & cond						in a second	
	DETAILS /INFORM	ATION TO BE	SUBMITTED i.r.o FUEL	FOR COMPUT	ATION OF ENERG	SY CHARGES		
Sulle		ER VERGUE						
	NAME OF THE PETITIO							+
	NAME OF THE GENER		:- KAHALGAON	Stage-I		l- CI		
	MONTH :-	Dec-18			Suppl.by MGR	Suppl.by Rail	E-Auction coal	Import Coal
				11-14				
sl no	Particulars Quantity of Coal s		Coal Company	Unit				
1	inclusive of openia				******	400044 40		
	and the state of t			MT	838154.80	406341.10		0.
2	Adjustment (+/-) in	quantity supp	olied by the Coal	LAT	4040.00			
	Company	Seel Company	inclusive of opening	MT	-1248.23			
3	stock of coal(1+2)		inclusive of opening					
				MT	836906.57	406341.10		0.0
4	Normative transit			MT	-1676.31	-3075.36		0.0
5		inclusive of op	pening stock of coal (3-					
	4)		inalization of	MT	835230.26	403265.74		0.0
6	value of opening s		mpany inclusive of		2071014472	1050700615		
and the second	value or opening s	itoek of coal		Rs	20/10144/2	1059709615		
7			and burneral Commence	Rs		0		
			ged by coal Company of opening stock of	ns	u u	•		
8	coal (6+7)	ged inclusive	or opening stock or	Rs	2071014472	1059709615	1	
	coar (o+r)			ns .	2071014472	1000100010		
9	T	b.,	in/read transport	Rs	0	154856807		
	Tranportation char	rges by rail/sn	ip/road transport	ns	0	13400007		-
10	Adjustment(+/-) in	amount charg	ed by				Win +0	
-277.6.	railways/transport	Co		Rs	0	0		
11	Demurrage charge			Rs	- 0	0		
12	Cost of diesel in tp	ot coal through	mgr system					- Tel 19
				Rs	17291113	45400000		
13	Total Trasportation	n charges (9+	/-10-11+12)	Rs	17291113	154866807		
13A	Others (Stone Pick	ring charges I	.oco driver's salary ,					
134	Sampling Charges		.oco univor o outury ;	Rs		35597965		
	Total amount char		upplied including					
14	transportation (8+	13+13A)		Rs	2088305585	1250174387		0
15	Landed Cost of Co	al		Rs/MT	2695			0.0
16	Blending Ratio			*4		0.0		
17	Weighted average	cost of coal		Rs/MT kcal/Kg		2695	.59	
				(Equilibrated		369	8	
18	GCV of Domestic (Coal as per bil	l of coal co.	Basis)				
19	GCV of Imported C	oal as per bill	of coal co.	kcal/Kg (Air Dried Basis)		0		
20	Weighted average			kcal/Kg		369	18	
	GCV of Domestic (kcal/Kg (TM		317	16	
21				Basis)		317		
	GCV of Import Coa	l as received	at Station	kcal/Kg (TM		0		
22				Basis)				
			as Received at station	kcal/Kg (TM Basis)		317	6	

Notes:

Additional data



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

EOD COLIN	FORMATION TO BE SUBMITTED i.r.o FUEL			
FOR COMPL	TATION OF ENERGY CHARGES (In case of Oil)			
		FORM-15 A		
NAME OF TH	E POWER STATION :- KAHALGAON	4 G/M/1/G/X	0.110	
MONTH :-		Oat 10	Oct-18	Oct-18
		Oct-18	HFO	LDO
SI	<u>Particulars</u>	Unit	Cal 1	Col 2
		Unit	<u>Total</u>	Total
1 Opening Stoc	k of Oil			
2 Value of Oper	ning Stock	KL	5504.424	130.2
3 Quantity of Oi	supplied made by Oil Company	Rs	218537434.47	7313784
4 Adjustment (+	/-) in quantity supplied made Coal Company	KL	0.0000	40
5 Oil supplied b	Oil Company (3+4)	KL	0.00	0.
6 Normative trai	sit & handling losses	KL	0.00	40.
7 Net Oil supplie	id (5-6)	KL.	0.00	0.
8 Amount charg	ed by the Oil Company	KL	0.00	40.
9 Adjustment (+	-) in amount Charged by Oil Company	Rs	0.00	2281687.
10 Total amount	harded (8.0)	Rs	0.00	0.
1 Tranportation	charges by rail/ship/road transport	Rs	0.00	2281687.
2 Adjustment(+/-	his amount about the same of t	Rs	0.00	0.
3 Demurrage ch) in amount charged by railways/transport Co	Rs	0.00	0.0
4 Total TPT char	ges (11+/-12-13)	Rs	0.00	0.0
5 Others /E.Tax	ges (11+/-12-13)	Rs	0.00	0.0
	1/100	Rs	0.00	0.0
7 Weighted Aver	harged for Oil supplied including transportation (10+15+16)	Rs	0.00	2281687.2
VVCIgnied Aver	age GCV of Oil	Kcal/Kg	9896	959
9 Total amount c	at the Station for the month (1+7)	KL	5504.42	170.2
Landed cost of	narged for Oil (2+16)	Rs	218537434.47	9595472.1
	OII (19/18)	Rs/KL	39702.14	56371.3
Quantity of Oil	Consumed for ST-I	KL	111.36	00071.0
Quantity of Oil	Consumed for ST-II	KL	512.50	28.0
Value of Oil Co	nsumed (20*21)	Rs	24768577.06	1578397.2
Closing Stock o	f Oil (18-21)	KL	4880.56	142.2
Value of Closin	3 Stock (19-22)	Rs	193768857.41	8017074.9
6 1 11 11 1			100700007.41	0017074.9
Details of inform	ation to be submitted in respect of Fuel for Consumption of ener	gy charges		
Station:- KAHAL	GAON			
Month :-		Oct 10	1150	
	<u>Particulars</u>	Oct-18 Unit	HFO	LDO
		Unit	Stage -I	
Landed Cost of	Oil at SI No 20	De/V)		
Usage Quantity	or the month	Rs/KL	39702.14	56371.33
Weighted average	ge rate	KL Rs/KL	111.36	0.00
Weighted average	ge GCV of Oil	kcal/Litr	39702,14	
	<u>Particulars</u>		9896	
1 1		Unit	Stage -II	
Landed Cost of C	Dil at SI No 20	Rs/KL	39702.14	56371.33
Usage Quantity f		KL	512.50	28.00
Weighted average		Rs/KL	40565.67	20.00
Weighted average	e GCV of Oil	kcal/Litr	9880	S. Administration of the



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SSC ER-1: Barh

	DETAILS /INFORMATION TO BE SUBMITTED i.r.o FUEL			
100	FOR COMPUTATION OF ENERGY CHARGES (In case of Oil)		of the state of th	-
		FORM-15 A		
	NAME OF THE POWER STATION :- KAHALGAON	7 01 (11)	New 10	
100	MONTH:-	Nov. 10	Nov-18	Nov-18
		Nov-18	HFO	LDO
SI	Particulars Particulars	11-4	Col 1	Col 2
	- ditolias	Unit	Total	Total
1 (Opening Stock of Oil	10		
2	Value of Opening Stock	KL	4880.564	The second secon
3 (Quantity of Oil supplied made by Oil Company	. Rs	193768857.41	8017074
4 /	Adjustment (+/-) in quantity supplied made Coal Company	KL	0.0000	0.
5 (Oil supplied by Oil Company (3+4)	KL	0.00	. 0.
6 1	Normative transit & handling losses	KL	0.00	0.
7 1	Net Oil supplied (5-6)	KL	0.00	0.
	Amount charged by the Oil Company	KL	0.00	0,
9 4	Adjustment (1/1) in amount Character (1/2)	Rs	0.00	0.
10 T	Adjustment (+/-) in amount Charged by Oil Company Total amount charged (8+9)	Rs	0.00	0.0
11 T	Francodation charged (8+9)	Rs	0.00	0.0
12 4	ranportation charges by rail/ship/road transport	Rs	0.00	0.0
12 7	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0.00	0.0
13 D	Demurrage charges if any	Rs	0.00	0.0
14 T	otal TPT charges (11+/-12-13)	Rs	0.00	0.0
	Others /E.Tax	Rs	0.00	212618.7
16 T	otal amount charged for Oil supplied including transportation (10+15+16)	Rs	0.00	212618.7
1/ W	veighted Average GCV of Oil	Kcal/Kg	9865	957
18 Q	Quantity of Oil at the Station for the month (1+7)	KL	4880.56	142.2
19 T	otal amount charged for Oil (2+16)	Rs	193768857.41	8229693.6
20 La	anded cost of Oil (19/18)	Rs/KL	39702.14	57866.3
21 Q	uantity of Oil Consumed for ST-I	KL	25.00	0,000.0
Q	uantity of Oil Consumed for ST-II	KL	116.00	0.0
22 V	alue of Oil Consumed (20*21)	Rs	5598001.74	0.0
23 CI	losing Stock of Oil (18-21)	KL	4739.56	142.2
24 Va	alue of Closing Stock (19-22)	Rs	188170855.67	8229693.6
-			100.11.0000.01	0220000.0.
De	etails of information to be submitted in respect of Fuel for Consumption of energ	gy charges		
St	ation:- KAHALGAON			
Mo	onth :-		STATE THE S	
SI	Particulars	Nov-18	HFO	LDO
-	Farticulars	Unit	Stage -	
1 La	nded Cost of Oil at SI No 20			
	sage Quantity for the month	Rs/KL	39702.14	57866.34
	eighted average rate	KL DetKI	25.00	0.00
	eighted average GCV of Oil	Rs/KL	39702.1	4
31	Particulars Particulars	kcal/Litr	9865	
- Sec.		Unit	Stage -I	
	nded Cost of Oil at SI No 20	Rs/KL	39702.14	57866.34
	age Quantity for the month	KL	116.00	
	eighted average rate	Rs/KL	39702.14	0.00
We	eighted average GCV of Oil	kcal/Litr 4	9865	



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AGM (F&A)
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	DETAILS /INFORMATION TO BE SUBMITTED i.r.o FUEL FOR COMPUTATION OF ENERGY CHARGES (In case of Oil)			
	TON COMPUTATION OF ENERGY CHARGES (In case of Oil)			
	NAME OF THE DOWER STATIST	FORM-15 A		
	NAME OF THE POWER STATION :- KAHALGAON		Dec-18	Dec-18
	MONTH :-	Dec-18	HFO	LDO
CI			Col 1	Col 2
SI	<u>Particulars</u>	<u>Unit</u>	Total	Total
1	Opening Stock of Oil	KL	1700 501	
2	Value of Opening Stock		4739.564	142.
3	Quantity of Oil supplied made by Oil Company	Rs	188170855.67	8229693
4	Adjustment (+/-) in quantity supplied made Coal Company	KL	0.0000	(
5	Oil supplied by Oil Company (3+4)	KL	0.00	(
6	Normative transit & handling losses	KL	0.00	(
7	Net Oil supplied (5-6)	KL	0.00	
8	Amount charged by the Oil Company	KL	0.00	0
COTTO	Adjustment (+/-) in amount Charged by Oil Company	Rs	0.00	0
10	Total amount charged (8+9)	Rs	0.00	0
11	Tranportation charges by rail/ship/road transport	Rs	0.00	0
12	Adjustment(+/-) in amount charged by railways/transport Co	Rs	0.00	0
13	Demurrage charges if any	Rs	0.00	0
	Total TPT aboves (44 / 40 40)	Rs	0.00	0
15	Total TPT charges (11+/-12-13)	Rs	0.00	0
	Others /E.Tax	Rs	0.00	0
16	Total amount charged for Oil supplied including transportation (10+15+16)	Rs	0.00	0.
17	Weighted Average GCV of Oil	Kcal/Kg	9859	95
18	Quantity of Oil at the Station for the month (1+7)	KL	4739.56	142.
19	Total amount charged for Oil (2+16)	Rs	188170855.67	8229693.
20	Landed cost of Oil (19/18)	Rs/KL	39702.14	57866.
21	Quantity of Oil Consumed for ST-I	KL	106.10	37000.
	Quantity of Oil Consumed for ST-II	KL	137.00	September 1
22	Value of Oil Consumed (20*21)	Rs	9651590.23	7.
23	Closing Stock of Oil (18-21)	KL		405064.
4	Value of Closing Stock (19-22)	Rs	4496.46 178519265.44	135. 7824629.
ı	Details of information to be submitted in respect of Fuel for Consumption of energy	gy charges		
1	Station:- KAHALGAON			
_	Month :-	Dec-18	HFO	LDO
4	<u>Particulars</u>	<u>Unit</u>	Stage -	
L	anded Cost of Oil at SI No 20	Rs/KL	39702.14	
L	Jsage Quantity for the month	KL KL		57866.
V	Veighted average rate		106.10	0.0
V	Veighted average GCV of Oil	Rs/KL kcal/Litr	39702.14	•
	Particulars	Unit	9859	
		Offic	Stage -I	
	anded Cost of Oil at SI No 20	Rs/KL	39702.14	57866.3
	sage Quantity for the month	KL	137.00	7.0
	Veighted average rate	Rs/KL	40585.12	
W	/eighted average GCV of Oil	kcal/Litr	9845	CRUST



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Anindya Sengupta AGM (F&A)
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Name of the Company Name of the Power Station Computation of Energy Charges

NTPC Limited

Kahalgaon Super Thermal power Station Stage-I

Form-15B ADDITIONAL FORM

	Computation of E	nergy Charges	
1	Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) (REC) ₅	$= (Q_s)_n \times P_s$	1.985
2	Heat Contribution from SFO / Alternate Fuel (H _s)	= $(Qs)_n \times (GCV)_s$	4.937
3	Heat Contribution from coal $(H_p)_s$	= GHR- H _s	2425.06
4	Specific Primary Fuel (Qp), Consumption	= H _p / (GCV) _p	0.771
5	Rate of Energy charge from (REC Primary Fuel (p/kwh)) _p	206.074
6	Rate of Energy charge ex-(REC) bus (p/kWh)	= ((REC) _s + (REC) _p / (1-(AUX))	228.637

		2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	Days	366	365	365	365	366
Sp. Oil consumption	ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption	%	9.00	9.00	9.00	9.00	9
Heat Rate	Kcal/Kwh	2,430.00	2,430.00	2,430.00	2,430.00	2430
Computation of Variable Ch	arges					
Variable Charge (Coal)	p/kwh	226.455	226.455	226.455	226.455	226.455
Variable Charge (Oil)	p/kwh	2.181	2.181	2.181	2.181	2.181
Total	p/kwh	228.637	228.637	228.637	228.637	228.637
Coal Cost	(Rs./MT)	2671.95	2671.95	2671.95	2671.95	2671.95
Price of fuel from Form-15/1		2671.05	2671.05	2671 05	2671.05	2671.05
	(Rs./KL)	39702.14	20702 14	20702 14	39702.14	
Oil Cost	(KS./KL)	39702.14	39702.14	39702.14	39/02.14	39702.14
Computation of Fuel Expens	ses for Calcul	ation of IWC:				
Computation of Fuel Expens ESO in a year	ses for Calcul	ation of IWC: 5707.32	5691.72	5691.72	5691.72	5707.316
Computation of Fuel Expens	ses for Calcul	ation of IWC:				
Computation of Fuel Expens ESO in a year	ses for Calcul	ation of IWC: 5707.32	5691.72	5691.72	5691.72	5707.316
Computation of Fuel Expens ESO in a year ESO for 40 days	ses for Calcul (MUs) (MUs)	ation of IWC: 5707.32 623.750	5691.72 623.750	5691.72 623.75	5691.72 623.75	5707.316 623.750

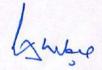
Coal	er Syn Rent	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal	Rs./MT	2661.06	2655.26	2695.59	2671.95
Wtd. Avg. GCV of Coal as received	kCal/Kg	3287	3225	3176	3229.33
Wtd. Avg. GCV of Coal as re	ceived after	adjustement of	85 kcal/kg	Part to the first	3144.33
Sec. Oil	12D all 17X		1 E 10 - 1/4 C	THE LITTLE	
Wtd. Avg. Price of Secondary Fuel	Rs/KL	39702.14	39702.14	39702.14	39702.14
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9896,00	9865.00	9859.00	9873.33

PETITIONER

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Company: Name of the Power Station: COD NTPC Limited Kahalgaon Super Thermal power Station Stage-I 01-08-96 (Amount in Rs. Lakh)

3				ACE Claimed (A	ctual / Projected)		destant.		(Amount in Rs. Lakh)
S. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col.	Regulations under which claimed	Justification	Impact on life extension
1	2	3	4	5	(6 = 4 - 5)	7	8	9	10
Claim				CHANGE OF PARTY			THE VIEW OF		Residential of
1		Drain Separation and Toe water Drain System	500	0	500		26(1) (ъ)	As per Gazette notification (Copy Attached at Annexure-A) by Ministry of Water Resources, River Development, and Ganga Rejuvenation dated 7th October,2016 of clause 6(2) "No person shall discharge, directly or indirectly, any untreated or treated trade effluent and industrial waste, Bio medical waste or other hazardous substances into the River Ganga or its tributaries or on their banks". Accordingly, Drain separation and Toe water drain is being installed to comply the statutory direction. The Hon'ble commission may be please to allow the same under change in law.	The work is necessary to facilitate the ash handling and utilisation effectively. However this shall not increase the station life as whole
2	2019-20	400 KV/ 132 KV Switchyard extension package	2000	0	2000		26 (1) b	Hon'ble commission has allowed 400KV Bus splitting work under 14(3)(ii) with 14(3)(ix) for safe and reliable operation of the Grid vide order dtd. 21.01.2017 in 283/GT/2014 of Kahalgaon Stage-II. However, as the bus splitting is related to both Stages (i.e Stage-I and Stage-II) of Kahalgaon STPS, the total expenditure is apportioned pro rata based on the capacity of Stage-I (840 MW) and Stage-II (1500MW) of Kalagaon STPS in the same order. Accordingly, 400KV Buses have been splitted at Kahalgaon STPS Switchyard. But, The station auxiliary supply could not be segregted due to unavailability of ICT at site. Segregation of the station auxiliary supply is equally critical at site in view of overcoming the phase difference which may arise between Unit & Station power supply in Stage-II under the splitted bus scenario. Station auxiliary supply segregation could not be done due to non availability of ICT at site on account of non performance of the vendor M/s EMCO Ltd. M/s EMCO could not meet theschedule of the project. Further, M/s EMCO Limited, Thane had stopped responding with regards to the subject package and on the associated issues. Thereafter the contract of M/s EMCO has been terminated. Petitioner has tendering to award the contract to new supplier and work is expected to be completed in the year 2019-20. Hon'ble Commission may be please to allow the same.	
		Total (2019-20)	2500	0	2500		want (Sec. 3)		



PART 1 FORM- H

		Work / Equipment added		ACE Claimed (A	ctual / Projected)				
S. No.	Year	during last five years of useful life of each Unit/Station	Of Accrual basis Liability included in col. 4 Cash basis Cash basis Accrual basis Liability included in col. 4 Regulations under which claimed		Justification	Impact on life extension			
1	2	3	4	5	(6 = 4 - 5)	7	8	9	10
3		Drain Separation and Toe water Drain System	810	0	810		26(1)b	Same as per Sl.No.1	
4		Ash Dyke/ Ash Handling	1346		1346		25(1) (c) & 25 (1)(g)	The said amount has been projected against the Ash Dyke raising and associated work within the original scope of work. The Hon'ble Commision may be pleased to allow the capitalization of ash dyke work under Regulation 25(1) (c) & 25 (1) (g) (Raising of Ash Dyke work as a part of ash disposal system) of Tariff Regulation 2019	
5	2020-21	Dry Ash Extraction system Unit-3&4	1500	0	1500		26(1) (b) & 2 6 (1)(e)	Hon'ble Commission has allowed Dry Ash extraction system under "Change in law" during 2016-17. This work Contract was awarded to agency in March'16. However, the work could not be capitalized during 2014-19 period due to implementation of GST. Due to total reform of taxt Structure, the contract was reviewed for tax purpose. Agency was unable to raises invoices for interim billing and faced the shoratge of cash flow, which resulted to delay in dispatches of materials. Therfore, the work got delayed due to uncontrollable reasons. The work is expected to be completed in the 2019-24 period. The Hon'ble commissio may be pleased to allow the same work.	The workis necessary to meet the environmental norms. However, this shall not increase the station lift as a whole.
		Total (2020-21)	3656	0	3656	- Militar consta			
6	2021-22	400 KV/ 132 KV Switchyard extension package	700	0	700		26(1) b	Same as per Sr No. 2	
7	95%	Dry Ash Extraction system Unit-3&4	2383	0	2383		26(1)(b)& 26(1)(e)	Same as per Sr.No.4	
		Total (2021-22)	3083	0	3083				
8	2022-23	400 KV/ 132 KV Switchyard extension package	851	0	851		26(1) b	Same as per Sr.No.2	
	SI GARAGE	Total (2022-23)	851	0	851	0	THE LEWIS CO.	0	

Name of the Petitioner Name of the Generating Station

NTPC Ltd Kahalgaon STPS Stage-I (4X210 MW)

Statement of Capital cost (To be given for relevant dates and year wise)

escapations			(Amount in Rs. L As on relevant date	
S. No.	Particulars	Accrual Basis	Un-discharged Liabilities	Cash Basis
Α	a) Opening Gross Block Amount as per books	234649.6	873,6	233775.
4	b) Amount of IDC in A(a) above	55.5	0.0	55.
	c) Amount of FC in A(a) above	0.0	0.0	0.
1140	d) Amount of FERV in A(a) above	18.8	0.0	18.
	e) Amount of Hedging Cost in A(a) above	0.0	0.0	0.
	f) Amount of IEDC in A(a) above	0.0	0.0	0.
В	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above	A CHARLES HOLD POST	Nelse Report December 1	ALL VIOLET
-	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		SO SOLVED IN SOLD	100 THE
	f) Amount of IEDC in B(a) above			
С	a) Addition in Gross Block Amount during the			
	period (Transferred from CWIP) b) Amount of IDC in C(a) above			
211	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
TEST	e) Amount of Hedging Cost in C(a) above			SENIO EN INC
	f) Amount of IEDC in C(a) above			
	a) Deletion in Gross Block Amount during the			
D	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			
1.70	b) Amount of IDC in E(a) above		CERT AGE OF THE	Exposite Lis
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			C - William
100	e) Amount of Hedging Cost in E(a) above		THE THE WAY IN THE PARTY OF	ASW STATE
	f) Amount of IEDC in E(a) above	SECTION OF A SECTION		



Name of the Petitioner Name of the Generating Station

NTPC Ltd Kahalgaon STPS Stage-I (4X210 MW)

Statement of Capital Woks in Progress

(Amount in Rs. Lakh)

4 10		As on relevant date					
S. No.	Particulars	Accrual Basis	Un-discharged Liabilities	Cash Basis			
A	a) Opening CWIP as per books	11401.00	3030.00	8370.99			
	b) Amount of IDC in A(a) above	0.00	0.00				
	c) Amount of FC in A(a) above	0.00	0.00				
	d) Amount of FERV in A(a) above	0.00	0.00	The second second			
	e) Amount of Hedging Cost in A(a) above	0.00	0.00				
	f) Amount of IEDC in A(a) above	0.00	0.00				
В	a) Addition in CWIP during the period						
	b) Amount of IDC in B(a) above						
	c) Amount of FC in B(a) above						
h. e.	d) Amount of FERV in B(a) above		TO SEE DELETION SEE SEE				
A LIVE	e) Amount of Hedging Cost in B(a) above		10 TO				
	f) Amount of IEDC in B(a) above						
С	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			NO IN DE MANUE			
	d) Amount of FERV in C(a) above		50 4 50 4 50 4 50 50 50 50 50 50 50 50 50 50 50 50 50	- TEN - CAR - C			
	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			Telescondine to V			
	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		Marianes and Maria				





PART-I FORM- N

Calculation of Interest on Normative Loan

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

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Gross Normative loan – Opening	113,997.83	115,184.83	116,934.83	119,494.03	121,652.13	122,247.83
2	Cumulative repayment of Normative loan up to previous year	113,997.83	115,184.83	116,934.83	119,494.03	121,652.13	122,247.83
3	Net Normative loan - Opening	-0.00	-	DECEMBER 12 (24.)	-		1 W () - 3 -
4	Add: Increase due to addition during the year / period	1187.00	1,750.00	2,559.20	2,158.10	595.70	
5	Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
6	Less: Decrease due to reversal during the year / period						
7	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
8	Less: Repayment of Loan	1187.00	1,750.00	2,559.20	2,158.10	595.70	
9	Net Normative loan - Closing	-0.00	- 1		1 2 2		
10	Average Normative loan	-0.00	15. 1914-15.	- 1	- 10-24	Asside the	n en en en en en en en en
11	Weighted average rate of interest	8.2989	8.3861	8.3878	8.3907	8.3934	8.3971
12	Interest on Loan	0.00	0.00	0.00	0.00	0.00	, 0.00

Calculation of Interest on Working Capital

Name of the Company:	NTPC Limited	7 18
Name of the Power Station :	Kahalgaon Super Thermal power Station Stage-I	

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	in Rs Lakh) 2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite	16,702.84	14125.15	14125.15	14125.15	14125.15	14125.15
2	Cost of Main Secondary Fuel Oil	285.72	207.50	206.94	206.94	206.94	207.50
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	2,584.88	2416.39	2508.51	2603.82	2704.53	2808.66
6	Maintenance Spares	6,203.71	5799.33	6020.42	6249.16	6490.87	6740.79
7	Receivables	34,036.09	23759.35	24115.58	24059.63	22551.09	22524.18
8	Total Working Capital	59813.24	46307.71	46976.58	47244.69	46078.57	46406.28
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500
10	Interest on Working Capital	8074.79	5580.08	5660.68	5692.99	5552.47	5591.96

TOTAL Liability ST - I

Total 87364042 Not Allowed/Not Claimed 11972474 Allowed/Claimed 75391568

2017-18

2,082,445

87,364,042

Petitioner

Summary of issue involved in the petition

	of the Company:	NTPC Limited			
Name of the Power Station :		Kahalgaon Super Thermal power Station Stage-I			
1	Petitioner: NTPC Limited			18.48	
2	Subject				
3	Prayer: The Hon'ble Commission may be pleased to: i) Approve tariff of Kahalgaon STPS Stage-I 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.				
4	Respondents				
	Name of Respondents				
	Bihar State Power (Holding) Company Ltd.		10. Power Development Department (J&K)Govt. of J&K		
3 5	2. Jharkhand Bijlee Vitaran Nigam Ltd		11. Haryana Power Purchase Centre (HPPC)	Settle 1	
313	3. GRIDCO Ltd.		12. BSES Rajdhani Power Ltd.		
	4. West Bengal State Electricity Distribution Company Limited		13. BSES Yamuna Power Ltd.		
1919	5. Power Department, Govt. of Sikkim		14. Tata Power Delhi Distribution Ltd.		
	6. Assam Power Distribution Company Ltd.		15. Rajasthan Urja Vikas Nigam Ltd,		
	7 Tamil Nadu Generation and Distribution Corporation Limited				
	8. Uttar Pradesh Power Corp. Limited				
	9. Rajasthan Urja Vikas Nigam Ltd				
5	Project Scope	THE TENNES		PER INTE	
	Cost				
	Commissioning		NA		
	Claim				
	AFC				
	Capital cost				
	Initial spare				
	NAPAF (Gen)				
	Any Specific				

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(च) प्रधान सचिव, सार्वजनिक स्वास्थ्य इंजीनियरिंग विभाग, राज्य सरकार (नाम) सदस्य, पदेन
(छ) अध्यक्ष (नाम) राज्य प्रदूषण नियंत्रण बोर्ड -सदस्य, पदेन
(झ) (नाम) राज्य में कार्यान्वयन एजेंसी के चीफ ऐक्जीक्यूटिव अधिकारी- सदस्य, पदेन
(ञ) वनों के प्रधान मुख्य संरक्षक, राज्य सरकार (नाम) -सदस्य, पदेन
(ट) सरकार (नाम) द्वारा संबंधित क्षेत्रों से पांच विशेषज्ञों से अधिक मनोनीत नहीं किए जाएंगे।-सदस्य

[फा. सं. स्था.-01/2016-17/111/एनएमसीजी]

संजय कुंडू, संयुक्त सचिव

MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT, AND GANGA REJUVENATION NOTIFICATION

New Delhi, the 7th October, 2016

S.O. 3187(E).—Whereas it is necessary to constitute authorities at Central, State and District levels to take measures for prevention, control and abatement of environmental pollution in River Ganga and to ensure continuous adequate flow of water so as to rejuvenate the River Ganga to its natural and pristine condition and for matters connected therewith or incidental thereto:

And whereas the River Ganga is of unique importance ascribed to reasons that are geographical, historical, socio-cultural and economic giving it the status of a National River;

And whereas the River Ganga has been facing serious threat due to discharge of increasing quantities of sewage, trade effluents and other pollutants on account of rapid urbanisation and industrialisation;

And whereas, the demand for water of River Ganga is growing for irrigation, drinking water supplies, industrial use and hydro-power due to increase in population, urbanisation, industrialisation, infrastructural development and taking into account the need to meet competing demands;

And whereas there is an urgent need-

- (a) to ensure effective abatement of pollution and rejuvenation of the River Ganga by adopting a river basin approach to promote inter-State and inter-sectoral co-ordination for comprehensive planning and management;
- (b) to maintain ecological flows in the River Ganga with the aim of ensuring continuous flows throughout its length so as to restore its ecological integrity that enables it to self rejuvenate;
- (c) for imposing restrictions in areas abutting the River Ganga in which industries, operations or processes, or class of industries, operations or processes shall not be carried out or shall be carried out subject to certain safeguards;
- (d) to make provision for inspection of any premises, plants, equipment, machineries, manufacturing or other processes, materials or substances and giving direction to the authorities, officers and persons as may be necessary to take steps, for prevention, control and abatement of environmental pollution in the River Ganga;
- (e) for carrying out and sponsoring investigations and research relating to problems of environmental pollution in the River Ganga and examination of such manufacturing processes, material and substance as are likely to cause environmental pollution;
- (f) for collection and dissemination of information in respect of matters relating to environmental pollution in the River Ganga and preparation of manual, codes or guide relating to the prevention, control and abatement of environmental pollution;

And whereas the State Governments concerned, being equally responsible for Ganga rejuvenation, are required to coordinate and implement the river conservation activities at the State level, and to take steps for comprehensive management of the River Ganga in their States; And whereas it is required to have planning, financing, monitoring and coordinating authorities for strengthening the collective efforts of the Central Government and the State Governments and authorities under this Order for effective abatement of pollution and rejuvenation, protection and management of the River Ganga;

Now, therefore, in exercise of the powers conferred by sub-section (1), read with clauses (i), (ii), (v), (vii), (viii), (ix), (x), (xii) and (xiii) of sub-section (2) and (3) of section 3 and sections 4,5,9,10,11, 19, 20 and 23 of the Environment (Protection) Act, 1986 (29 of 1986) (hereinafter referred to as the Act) and in supersession of the notifications of the Government of India in the erstwhile Ministry of Environment and Forests numbers S.O.1111(E), dated the 30th September, 2009, S.O. 2493 (E), dated the 30th September 2009, S.O. 2495 (E), dated the 30th September 2009, S.O. 287 (E) dated the 8th February, 2010 and in the Ministry of Water Resources, River Development and Ganga Rejuvenation No. S.O. 2539 (E), dated the 29th September 2014, except as respects things done or omitted to be done before such supersession, the Central Government hereby------

(i)constitutes the authorities by the names mentioned in this Order for the purpose of exercising and performing such of the powers and functions (including the power to issue directions under section 5 of the Act and for taking measures with respect to the matters as mentioned in this Order;

(ii))directs, subject to the supervision and control of the Central Government and the provisions of this Order, such authority or authorities as specified in this Order that shall exercise the powers or perform the functions or take the measures so mentioned in this Order as if such authorities had been empowered by the Act to exercise those powers, perform those functions, or take such measures;

(iii)directs that all its powers and functions (except the power to constitute any authority under sub-section (3) of section 3 and to make rules under the sections 6 and 25 of the Act) under any provision of the Act shall, in relation to River Ganga and matters connected therewith, be exercisable and discharged also by the authorities constituted by this Order and by the officers specified in this Order, subject to such conditions and limitations and to the extent as specified in this Order.

- $1.Short\ title\ and\ commencement.$ (1) This Order may be called the River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016.
- (2) It shall come into force on the date of its publication in the Official Gazette.
- 2. Applicability.- This Order shall apply to the States comprising River Ganga Basin, namely, Himanchal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Haryana, Rajasthan, West Bengal and the National Capital Territory of Delhi and such other States, having major tributaries of the River Ganga as the National Council for Rejuvenation, Protection and Management of River Ganga may decide for the purpose of effective abatement of pollution and rejuvenation, protection and management of the River Ganga.
- 3.Definitions.- (1) In this Order, unless the context otherwise requires, -
- (a) "Act" means the Environment (Protection) Act, 1986 (29 of 1986);
- (b) "Basin" means the entire catchment of a water body or water course including the soil, water, vegetation and other natural resources in the area and includes land, water, vegetation and other natural resources on a catchment basis;
- (c) "Buffer Area" means an area which extends beyond the flood plain of a stream;
- (d) "catchment" or ""catchment area "includes the entire land area whose runoff from rain, snow or ice drains into a water body or a water course, before the water course joins River Ganga or its tributaries or discharges water into River Ganga or its tributaries;
- (e) "commercial fishing" means large scale fishing for commercial purposes by nets, poisoning, or other modern fishing gear or methods in River Ganga or its tributaries;
- (f) Competent authority means "Central Government"
- (g)"deforestation" means removal or reduction of forest cover, especially when caused by anthropogenic activities or removal of trees and other vegetation of a forest excluding a planned clearance for scientific management of forest in particular in the catchment area of River Ganga;
- (h) "degraded forest" means a forest having loss or reduction of native forest cover or vegetation density in the catchment area abutting River Ganga or its tributaries;
- (i) "direction" shall mean direction issued under section 5 of the Act and the expression "direct" shall be construed accordingly;
- (j) "District Ganga Committee" means the District Ganga Protection Committee mentioned in paragraph 53;
- (k) "engineered diversion" means a structure or device constructed or installed to transfer the water of River Ganga or its tributaries into canals or other engineering structures;

- (1) "flood plain" means such area of River Ganga or its tributaries which comes under water on either side of it due to floods corresponding to its greatest flow or with a flood of frequency once in hundred years;
- (m) "Ghat" means sloping part at Bank of River Ganga or its tributaries with artificially constructed steps or sloping piece of land used for providing easy human access to water of River Ganga or its tributaries and includes usage of such parts for religious or other related purposes;
- (n) "local authority" includes Panchayati raj institutions, municipalities, a district board, cantonment board, town planning authority or Zila Parishad or any other body or authority, by whatever name called, for the time being invested by law, for rendering essential services or with the control and management of civic services, within a specified local area;
- (o) "National Mission for Clean Ganga" means the authority mentioned in paragraph 31.
- (p) "notification" means a notification published in the Official Gazette and the expression 'notifying' shall be construed accordingly;
- (q)"offensive matter" consists of solid waste which includes animal carcasses, kitchen or stable refuse, dung, dirt, putrid or putrefying substances and filth of any kind which is not included in the sewage;
- (r) "person" include ----
 - (i)an individual or group or association of individuals whether incorporated or not;
 - (ii)a company established under the Companies Act, 2013 (18 of 2013);
 - (iii) any corporation established by or under any Central or State Act;
 - (iv)a local authority;
 - (v) every juridical person not falling within any of the preceding sub-clauses;
- (s) "River Bed" means the dried portion of the area of River Ganga or its tributaries and includes the place where the River Ganga or its tributaries run its course when it fills with water and includes the land by the side of River Ganga or its tributaries which retains the water in its natural channel, when there is the greatest flow of water;
- (t) "River Bed Farming" includes seasonal agriculture or farming on the River Bed of River Ganga or its tributaries during low flows of water;
- (u) "River Ganga" means the entire length of six head-streams in the State of Uttarakhand namely, Rivers Alakananda, Dhauli Ganga, Nandakini, Pinder, Mandakini and Bhagirathi starting from their originating glaciers up to their respective confluences at Vishnu Prayag, Nand Prayag, Karn Prayag, Rudra Prayag, and Dev Prayag as also the main stem of the river thereafter up to Ganga Sagar including Prayag Raj and includes all its tributaries;
- (v) "rubbish" means ashes, broken brick, mortar, broken glass, dust or refuse of any kind and includes filth;
- (w) "sand mining" means large scale removal of river sand from the dried channel belt, flood plain or a part of River Ganga or its tributaries;
- (x) "sewage effluent" means effluent from any sewerage system or sewage disposal works and includes sewage from open drains;
- (y) "sewerage scheme" means any scheme which a local authority may introduce for removal of sewage by flushing with water through underground closed sewers;
- (z) "Schedule" means Schedule appended to this Order;
- (za) "specified District" means an area of every District abutting the River Ganga, being within a radius of fifteen kilometers of the Ganga River Bank or its tributaries in the States of Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Haryana, Rajasthan, West Bengal and the National Capital Territory of Delhi and such other States, having major tributaries of the River Ganga as referred to in this Order;
- (zb) "State Ganga Committee" means the State Ganga Rejuvenation, Protection and Management Committee constituted under this Order for each of the States mentioned in paragraph 2.
- (zc) State Ganga River Conservation Authority means an authority earlier constituted in each State under the Act as follows, namely:-
 - the Bihar State Ganga River Conservation Authority constituted by the notification of the Government of India in the Ministry of Environment and Forests number S.O287 (E), dated 8th February 2010;
 - the Jharkhand State Ganga River Conservation Authority constituted by the notification of the Government of India in the Ministry of Environment and Forests number S.O2495(E), dated 30th September 2009;

- (iii) the Uttarakhand State Ganga River Conservation Authority constituted by the notification of the Government of India in the Ministry of Environment and Forests number S.O 1111 (E), dated 30th September 2009;
- (iv) the Uttar Pradesh State Ganga River Conservation Authority constituted by the notification of the Government of India in the Ministry of Environment and Forests number S.O2493 (E), dated 30th September 2009; and
- (v) the West Bengal State Ganga River Conservation Authority constituted by the notification of the Government of India in the Ministry of Environment and Forests number S.O2494 (E), dated 30th September 2009.
- (zd) "stream" includes river, water course (whether flowing or for the time being dry), inland water (whether natural or artificial) and sub-terrain waters;
- (ze) "tributaries of River Ganga" means those rivers or streams which flow into River Ganga and includes Yamuna River, Son River, Mahananda River, Kosi River, Gandak River, Ghaghara River and Mahakali River and their tributaries or such other rivers which National Council for Rejuvenation Protection and Management of River Ganga may, by notification, specify for the purposes of this Order.
- 2. The words and expressions used herein and not defined but defined in the Environment (Protection) Act, 1986 (29 of 1986) shall have the meanings respectively assigned to them in the Act.
- **4. Principles to be followed for rejuvenation, protection and management of River Ganga.** (1) The following principles shall be followed in taking measures for the rejuvenation, protection and management of River Ganga, namely:-
 - (i) the River Ganga shall be managed as a single system;
 - the restoration and maintenance of the chemical, physical, and biological quality of the waters of River Ganga shall be achieved in a time bound manner;
 - (iii) the River Ganga shall be managed in an ecologically sustainable manner;
 - (iv) the continuity of flow in the River Ganga shall be maintained without altering the natural seasonal variations;
 - (v) the longitudinal, lateral and vertical dimensions (connectivities) of River Ganga shall be incorporated into river management processes and practices;
 - (vi) the integral relationship between the surface flow and sub-surface water (ground water) shall be restored and maintained;
 - (vii) the lost natural vegetation in catchment area shall be regenerated and maintained;
 - (viii) the aquatic and riparian biodiversity in River Ganga Basin shall be regenerated and conserved;
 - (ix) the bank of River Ganga and its flood plain shall be construction free Zone to reduce pollution sources, pressures and to maintain its natural ground water recharge functions;
 - (x) the public participation in rejuvenation, protection and management, revision and enforcement of any regulation, standard, effluent limitation plan, or programme for rejuvenation, protection and management shallbe encouraged and made an integral part of processes and practices of

River Ganga rejuvenation, protection and management.

- (2) National Mission for Clean Ganga may, having regard to the needs of the people of the country, advances in technology and socio economic conditions of the people and to preserve the rich heritage of national composite culture, specify additional principles in addition to the principles specified under sub-paragraph (1).
- **5.Ecological flow of water in River Ganga to be maintained.** (1) Every State Government, shall endeavor to ensure that uninterrupted flows of water are maintained at all times in River Ganga as required under clause (iv) of paragraph (4)
- (2) Every State Government shall also endeavor to maintain adequate flow of water in River Ganga in different seasons to enable River Ganga to sustain its ecological integrity and to achieve the goal, all concerned authorities shall take suitable actions in a time bound manner.
- (3) For the purposes of this paragraph, the average flow of water shall be determined by such Hydrology Observation Stations at such points of the River Ganga, as may be specified by the National Mission for Clean Ganga:

Provided that the average flow of water in River Ganga may, having regard to ecology, be determined by the National Mission for Clean Ganga for different points of River Ganga.

6. Prevention, control and abatement of environmental pollution in River Ganga and its tributaries.- (1) No person shall discharge, directly or indirectly, any untreated or treated sewage or sewage sludge into the River Ganga or its tributaries or its banks:

Provided that where a local authority does not have, on the date of commencement of this Order, sewerage scheme or infrastructure for collection, storage, transportation and disposal of sewage or sewage sludge or such infrastructure is not functional on the said date in an area abutting the River Ganga or its tributaries, every such local authority shall, within a period, specified by National Mission for Clean Ganga from the date of commencement of this Order, develop such infrastructure or make such infrastructure functional, as the case may be, for collection, storage, transportation and disposal of sewage in the territorial area of the local authority.

(2) No person shall discharge, directly or indirectly, any untreated or treated trade effluent and industrial waste, biomedical waste, or other hazardous substance into the River Ganga or its tributaries or on their banks:

Provided further that where an industry or industrial area management does not have, on the date of commencement of this Order, industrial effluent treatment scheme or infrastructure for collection, storage, transportation and disposal of trade effluents industrial waste, bio-medical waste, or other hazardous substance, etc. or such infrastructure is not functional on the said date in an area abutting the River Ganga or its tributaries, every such industry or industrial area management shall, within a period so specified by the National Mission for Clean Ganga from the date of commencement of this Order, develop such infrastructure or make such infrastructure functional, as the case may be, for collection, storage, transportation and disposal of trade effluent and industrial waste, bio-medical waste, or other hazardous substance in the jurisdiction of the industry or industrial area management.

(3) No person shall construct any structure, whether permanent or temporary for residential or commercial or industrial or any other purposes in the River Ganga, Bank of River Ganga or its tributaries or active flood plain area of River Ganga or its tributaries:

Provided that in exceptional circumstances like natural calamities or religious events at traditional locations, temporary structures can be raised after prior permission of the National Mission for Clean Ganga acting through the State Ganga Committee and the District Ganga Committee:

Provided further that in case any such construction has been completed, before the commencement of this Order, in the River Bank of River Ganga or its tributaries or active flood plain area of River Ganga or its tributaries, the National Mission for Clean Ganga shall review such constructions so as to examine as to whether such constructions are causing interruption in the continuous flow of water or pollution in River Ganga or its tributaries, and if that be so, it shall cause for removing them.

- (4) No person shall do any act or carry on any project or process or activity which, notwithstanding whether such act has been mentioned in this Order or not, has the effect of causing pollution in the River Ganga.
- (5) It shall be the duty of the National Mission for Clean Ganga, every Specified State Ganga Committee or specified District Ganga Protection Committee, local authority and all other authorities and persons to disseminate widely and bring to public notice, using various means, information captured in reports and the aforesaid measures in the local language in every village, town, city and other areas abutting River Ganga and its tributaries.
- 7. Emergency measures in case of pollution of River Ganga or its tributaries If any poisonous, noxious or polluting matter is present or has entered into the River Ganga due to any accident or other unforeseen act or event, and it is necessary or expedient to take immediate action, the National Mission for Clean Ganga shall take immediate action for carrying out such operations or direct for carrying out such operations by the specified State Ganga Committee or specified District Ganga Committee or local authority or any other authority or Board or Corporation, as it may consider necessary for all or any of the following purposes, namely; -
- (a) the manner of removing the matter from River Ganga and disposing it off in such a manner as it may specify, as also, for carrying out such operations as is considered appropriate for mitigation or removal of any pollution caused by such matter;
- (b) issuing directions restraining or prohibiting any person concerned from discharging any poisonous, noxious or polluting matter in the River Ganga;
- (c) undertaking any additional work or functions as may be necessary to address such emergency.
- **8. Power to issue directions.** The National Mission for Clean Ganga shall, in the exercise of its powers and performance or its functions under this Order, issue such directions in writing as it may consider necessary for abatement of pollution and rejuvenation, protection and management of the River Ganga to the concerned authority or local authority or other authorities or Board or Corporation or person and they shall be bound to comply with such directions.
- 9. Ganga safety audit.- Every District Ganga Committee shall cause the Ganga safety audit to be carried out by such Ganga Safety Auditors within such time frame and in accordance with such protocols as may be specified by the