

**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-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of North Karanpura Super Thermal Power Project (3 X 660 MW) for the period from **01.04.2024** to **31.03.2029**.

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Location: NTPC Ltd



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**AND  
IN THE MATTER OF**

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

**Respondents:**

1. North Bihar Power Distribution Company Ltd. (NBPDC),  
Vidyut Bhawan, Bailey Road,  
Patna (Bihar) 800001
2. South Bihar Power Distribution Company Ltd. (SBPDCL),  
Vidyut Bhawan, Bailey Road,  
Patna (Bihar) 800001
3. Jharkhand Urja Vikas Nigam Limited  
Engineering Building, HEC Township  
Dhurwa, Ranchi - 834004

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4 GRIDCO Ltd.  
24, Janpath,  
Bhubaneswar – 751007

5 West Bengal State Electricity Distribution Co. Ltd.  
Vidyut Bhawan, Block-DJ  
Sector-II, Salt Lake City,  
Kolkata – 700 091

The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as '**Petitioner**' or '**NTPC**'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power Projects/ projects at different regions and places in the country. North Karanpura Super Thermal Power Project (3 X 660 MW) (hereinafter referred to as NKSTPP is one such Project located in the State of Jharkhand. The power generated from NKSTPP is being supplied to the respondents herein above.



- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2024 (hereinafter 'Tariff Regulations 2024') which came into force from 01.04.2024, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2024 to 31.03.2029.
- 5) Regulation 9(2) of Tariff Regulations 2024 provides as follows:  
*"(2) In case of an existing generating Project 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 30.11.2024, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2024 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2024-29 along with the true up petition for the period 2019-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019."*  
In terms of above, the Petitioner is filing the present petition for determination of tariff for NKSTPP for the period from 01.04.2024 to 31.03.2029 as per the Tariff Regulations 2024.
- 6) The petitioner had filed petition no. 91/GT/2023 with audited data as on U#1 COD vide affidavit dated 12.06.24. the pleadings are still in progress and order is not issued by Hon'ble commission. During the pendency of said petition, station has achieved COD of Unit#2 on 20.03.2024. Thereafter, the petitioner has filed petition vide affidavit dated 29.11.24 with audited financials from U#1 COD (01.03.2023) to U#2 COD (20.03.2024) till 31.03.2024 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2019. Order is yet to be issued by Hon'ble Commission.
- 7) The capital cost claimed in the instant petition is based on the closing capital cost as on 01.04.2024 considered as filed vide affidavit dated 29.11.2024 and projected estimated capital expenditures claimed for the period 2024-29 under Regulation 19 and Regulation 24, 25 and 26 of the Tariff Regulations, 2024.



- 8) The Petitioner further respectfully submits that in the instant petition data anticipated COD of U#3 has been considered on 01.05.2025 tariff of NKSTPP has been projected accordingly for 24-29 period in line with CERC (Terms & Conditions of Tariff) Regulations 2024.
- 9) The Petitioner further respectfully submits that as per Regulation 36(1)(6) of the Tariff Regulations 2024, the water charges, security expenses and ash utilization expenses are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2023-24 have been furnished below. Water charges claimed is provided year on year on an estimated basis for 24-29 and same may be allowed in tariff for the 2024-29. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Thermal Power Plant
Type of cooling water system	Closed Cycle (Air Cooled Condenser with mechanical Draft Fan)
Allocation of Water for NKSTPP	20 MCM / year (water drawn from Garhi river only during monsoon months to replenish raw water reservoir)
Rate of Water charges	Rs 11.704 per KL as on date of commencement of Agreement i.e. 01.10.2020. To be increase 10 % annually.

- 10) Similarly, the Petitioner is claiming the security & ash utilization expenses based on the estimated expenses for the period 2024-29, 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 36(1)(6) based on actual consumption of spares during the period 2024-29.

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- 11) However, it is submitted that the expenditure towards the ash utilization charges is recurring in nature and the Petitioner has been incurring ash utilization expenditure in its Projects in the current tariff period also. In case the same is permitted to be recovered after the issuance of the tariff order for the period 2024-29, there will be additional liability on the beneficiary on account of the interest payment for the period till the time the tariff petitions for the period 2024-29 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 utilization charges on a monthly basis subject to true-up at the end of the 2024-29 period.
- 12) The petitioner humbly submits that petition no. 227/MP/2024 has been filed by the petitioner concerning Ash Transport Expenditure for its Projects which is under active consideration of this Hon'ble Commission and the outcome of the said petition will be applicable to the instant petition also
- 13) The Petitioner further respectfully submits that the wage/ salary revision of the employees of the Petitioner will be due with effect from 1.1.2027. As per Regulation 36(1)(8) of the Tariff Regulations 2024, the impact on account of implementation of wage/ pay revision shall be allowed at the time of truing up of tariff. The Petitioner therefore craves liberty to approach the Hon'ble Commission for allowing the impact on account of implementation of wage/ pay revision of the employees of the Petitioner with effect from 1.1.2027, based on the actual payments whenever paid by it.
- 14) The present petition is filed on the basis of norms specified in the Tariff Regulations 2024. 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 affect the Project APC, Heat Rate, O&M expenses etc. In addition, the availability of the unit/ Project would be also affected due to shutdown of the units for installation of ECS.



- 15) It is submitted that Hon'ble Commission in 2024 Tariff Regulations has prescribed the unit heat rate pertaining to various parameters. As per this Tariff Regulation, the max design Heat Rate (kCal/kwh) specified for pressure and temp. parameters of nearest class to North Karanpura station for sub-Bituminous Indian Coal is 2109.30 kCal/kWh. However, in case of NKTPP-I, the Guaranteed Unit Heat Rate specified is 2236.9 kCal/kWh.

Tariff Regulation 2024 also provides adjustment of maximum turbine cycle heat rate for type of dry cooling system in Regulation 70 (C). The relevant clause is stated as follows:

***"Norms of operation for thermal generating station***

***49. The norms of operation as given hereunder shall apply to thermal generating stations:***

*(A) Normative Annual Plant Availability Factor (NAPAF) :*

*(C) Gross Station Heat Rate:*

*(a) Existing Thermal Generating Stations*

*(b) Thermal Generating Stations achieving COD on or after 1.4.2009:*

*For Coal-based and lignite-fired Thermal Generating Stations:*

*For 200-300 MW Sets. : 1.05 X Design Heat Rate (kCal/kWh)*

*For 500 MW Sets and above: 1.045 X Design Heat Rate (kCal/kWh) Where the Design Heat Rate of a generating unit means the unit heat rate guaranteed by the supplier at conditions of 100% MCR, zero percent make up, design coal and design cooling water temperature/back pressure.*

*Provided units based on a dry cooling system, the maximum turbine cycle heat rate shall be considered as per the actual design or 6% higher than the values given in the table above, whichever is lower; "*

- 16) It is submitted that NKSTPP-I has been designed with Air Cooled Condenser with mechanical Draft Fan which has resulted in reduction in specific water consumption. However, in case of Air-Cooled Condenser there is substantial loss of heat rate as

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compared to normal condenser having water as cooling medium. This is because the air as the cooling medium has certain limitations as compared to water which is better heat transfer medium, and hence results in larger heat rejection. Further it is to be submitted that petitioner has awarded the main package of the instant station on EPC basis, the supplier has guaranteed station heat rate instead of turbine cycle Heat rate and boiler efficiency separately. As Tariff regulations allows for adjustment in the heat rate for dry cooling system, it is prayed that Design Station Heat rate may be allowed based on guaranteed design value as provided by supplier i.e. 2236.96 Kcal/Kwh and accordingly, Gross station heat rate works out to 2337.56 kCal/kWh (i.e.  $1.045 \times 2236.90$  kCal/kWh).

- 17) It is also submitted that the EPC package was awarded through International Competitive Bidding during 2009-14 Tariff period. It was not possible for the Petitioner to specify the efficiency parameters at the time of finalizing the contracts on the instant station as per the efficiency parameters specified in the Tariff Regulations 2019-24 which are more stringent. In a similar case, this Hon'ble Commission in its Order dated 20.02.2014 passed in Petition No. 160/GT/2012 has considered the design parameters for computing Gross Heat Rate of the station with appropriate operating margin. The relevant extract of the Order is reproduced hereunder: -

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



18) Further, it is submitted that if the Petitioner had stipulated more stringent unit heat rate for ordering the BTG plant, this would have increased the capital cost commensurate to the efficiency parameters sought. The benefit of the lower capital cost due to lower efficiency parameters has already been passed onto the beneficiaries in terms of lower capital cost. In view of the above submissions, it is prayed that Design Station Heat rate may be allowed based on guaranteed design value and accordingly, the gross Station heat rate may be considered as 2337.56 kCal/kWh. The tariff computation is attached herewith and marked as **Appendix- I** based on considering Station Heat Rate as per design heat rate multiplied by 1.045 as per Tariff Regulation 2024.

19) It is submitted that Hon'ble Commission has prescribed Aux Energy consumption norms at clause 70 (E) of the Tariff Regulations 2019. As per this for Coal based generating stations of capacity 300 MW & above having steam driven boiler feed pumps the Aux energy consumption allowed is 5.25 %. Further, as per regulations, additional Auxiliary energy consumption of 1.0% shall be allowed for plants with direct cooling air cooled condenser with mechanical draft fans.

It is submitted that direct cooling air cooled condenser with mechanical draft fans technology has been adopted for the instant station. Accordingly, the total normative aux power consumption as per tariff regulation works out as 6.25 % for the North Karanpura project.

In view of above submissions, it is prayed that Aux Energy consumption of 6.25% may be allowed for the instant station. The tariff computation attached at Appendix-I is based on considering Aux Energy consumption of 6.75%.

20) It is submitted that the expected commissioning of FGD, which is a part of the original scope of works, is in FY'25-26 and FY'26-27. Accordingly weighted average landed cost of limestone in Form-16A of Appendix-I pertaining to instant Project has been provided

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on an estimated basis, which will be subject to true up. Also APC margin of 1% has been considered from the expected ODe of the FGD at NKSTPP, as per CERC Tariff Regulations, 2024.

21) The petitioner has accordingly calculated the tariff for 2024-29 period based on the above and the same is enclosed as **Appendix-I** to this petition.

22) The Petitioner humbly submits that the pay/wage revision for the employees of the Petitioner will be due wef 01.01.2027. Further, the wage/pay revision of CISF and Kendriya Vidyalaya employees will also be due for revision during the tariff period 2024-29. Regulation-36(1)(8) of CERC (Terms & Conditions of Tariff) Regulations-2024 provides as below:

*"In the case of a generating company owned by the Central or State Government, the impact on account of implementation of wage or pay revision shall be allowed at the time of truing up of tariff."*

In accordance with the above said regulation, the Petitioner shall approach the Hon'ble Commission for allowing the impact of Pay/wage revision of employees of the Petitioner i.e. NTPC Limited, CISF and Kendriya Vidyalaya (wherever applicable) as additional O&M at the time of truing-up of tariff for the control period 2024-29. Hon'ble Commission may be pleased to consider the impact of wage/pay revision as an additional impact on O&M and allow the same as additional O&M over and above the normative O&M.

23) It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website i.e. [www.ntpc.co.in](http://www.ntpc.co.in).

24) In accordance with the 'Conduct of Business Regulations 2023' of the Hon'ble Commission, the Petitioner shall, within 7 days after filing the tariff petition, publish a notice about such filing in at least two daily leading digital newspapers one in English language and another in any of the Indian languages, having wide circulation in each of the States and Union Territories where the beneficiaries are situated as per Form

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14 appended to these regulations. Subsequently, the Petitioner shall submit the proof of publications as soft copies of the publications under an affidavit through the e-filing portal of the Hon'ble Commission within one week from the date of publication. Further, the Petitioner shall also submit the detail of expenses incurred for publication of the notice along with the prayer for recovery of Publication Expenses as per Regulation-94 of CERC Tariff Regulations 2024.

- 25) The filing fee for the instant Petition has been paid for FY 2024-25 vide Payment Reference No. 37c568eba62158b7b321 on 24.04.24 as per Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time. For subsequent years, it shall be paid as per the provisions of CERC (Payment of Fee) Regulations 2012. Further, the proof of payment of fees is being submitted in Form I specified under Regulation 12 of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time. Hon'ble Commission may be pleased to take the above into consideration and allow the recovery of filing fee for the instant Project as per Regulation-94 of CERC Tariff Regulations 2024.
- 26) 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.
- 27) It is submitted that in terms of Regulation 60 (5) of the Tariff Regulations 2024, the Petitioner is required to furnish details *qua* providing the details of Landed Price & Gross Calorific Value ("**GCV**") of coal in Form 15. It is further submitted that the Petitioner in terms of Regulation 40 of the Tariff Regulations 2019 was required to furnish the details for Landed Price & GCV of coal also as per Form 15 of the Tariff Regulations, 2019.
- 28) However, in so far as the present Petition is concerned, the Petitioner has prepared & submitted the data of coal as per Form 15 of the Tariff Regulations, 2019. The same is because of the following reasons: -

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- (i) This Hon'ble Commission had notified the Tariff Regulations, 2019 on 07.03.2019 and the same was in effect till 31.03.2024.
- (ii) The Petitioner being a diligent utility has been seamlessly providing the said data of coal in terms of the prescribed format (i.e. Form 15 of Annexure-I (Part I)) of the Tariff Regulations, 2019 to this Hon'ble Commission for computation of Interest on Working Capital.
- (iii) Thereafter, this Hon'ble Commission on 15.03.2024 notified the Tariff Regulations, 2024, wherein the format of Form 15 was changed/ amended by this Hon'ble Commission and a new format was placed in the Tariff Regulations 2024 in the month of June'2024.
- (iv) By virtue of the said change, the Petitioner has been obligated to furnish the data of coal for its existing plants month wise for the preceding 12 months i.e. for FY 2023-24 for computation of Interest on Working Capital.
- (v) It is humbly submitted that by virtue of the Tariff Regulations, 2024, this Hon'ble Commission has added a new format/ revised the format of Form-15 which has not prescribed in the past Tariff Regulations i.e. of 2019. Hence, it is only now (in the Tariff Regulations 2024) that the Petitioner has been obligated to furnish the data of coal as per the new format of Form-15.
- (vi) A True copy of the Form 15 of Tariff Regulations 2019 and Form 15 of Tariff Regulations 2024, is marked and annexed herewith as **Annexure A**.
- (vii) It is respectfully submitted that since the format for Form 15 has been changed in Tariff Regulations, 2024 and was notified in the month of June'2024, the Petitioner could not have been aware about the said changes earlier, hence the Petitioner did not maintain the data required in new format of Form 15 of Tariff Regulations, 2024.
- (viii) Therefore, this Hon'ble Commission may kindly exempt the Petitioner from furnishing the data of coal in terms of new format of Form 15 of the Tariff Regulations, 2024 & may be allowed to furnish the details of coal for FY 2023-24 in terms of the prescribed format of Form-15 of the Tariff Regulations, 2019.
- (ix) In light of the above submissions, it may kindly be noted that no prejudice shall be caused to any party if the Petitioner is allowed for providing the details of

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Landed Price & GCV of coal to this Hon'ble Commission in terms of Form 15 of the Tariff Regulations, 2019 as the value of Landed Price & GCV of coal will remain unaffected.

### **Prayers**

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

- i) Approve tariff of North Karanpura Super Thermal Power Project, Stage-I (3 X 660 MW) for the tariff period 01.04.2024 to 31.03.2029.
- 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 Utilization Charges directly from the beneficiaries on monthly basis, subject to true up.
- iv) Allow the recovery of pay/wage revision as additional O&M over and above the normative O&M.
- v) Consider Project heat rate based on design heat rate with applicable operating margin.
- vi) Pass any other order as it may deem fit in the circumstances mentioned above.

**Petitioner**

Noida

Date : 30.11.24



**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-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of North Karanpura Super Thermal Power Project (3 X 660 MW) **for the period from 01.04.2024 to 31.03.2029.**

**AND  
IN THE MATTER OF**

Petitioner:

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



Respondents:

1. North Bihar Power Distribution Company Limited.,  
Vidyut Bhawan, Bailey Road,  
Patna-800001  
& Others

**AFFIDAVIT**

I, Prashant Chaturvedi, S/o Dr. S.C. Chaturvedi, aged about 48 years, working as Additional General Manager (Commercial) at NTPC Limited, having my office at 7th Floor, EOC, Sector- 24, Noida- 201301, do hereby solemnly affirm and state as under:



1. That the deponent is the Additional General Manager (Commercial) of the Petitioner NTPC Ltd. and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.

*Prashant Chaturvedi*  
Deponent  
S/o Dr. S.C. Chaturvedi  
Additional General Manager (Commercial)  
NTPC Ltd.  
7th Floor, EOC, Sector- 24, Noida- 201301



2. That the accompanying Petition under Section 62 and 79 (1) (a) of the Electricity Act, 2003, has been filed by my authorized representative under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the annexures annexed to the Petition are correct and true copies of the respective originals.
4. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.

प्रशान्त चतुर्वेदी/PRASHANT CHATURVEDI  
 अवर महाप्रबन्धक (वाणिज्यिक)  
 Addl. General Manager (Commercial)  
 एन टी पी सी लिमिटेड/NTPC LIMITED  
 EOC, A-8A, Sector-24, NOIDA-201301

**Verification:**

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

Verified at Noida (UP) on this ..... day of ..... 2024.

*(Signature)*  
 (Deponent)

प्रशान्त चतुर्वेदी/PRASHANT CHATURVEDI  
 अवर महाप्रबन्धक (वाणिज्यिक)  
 Addl. General Manager (Commercial)  
 एन टी पी सी लिमिटेड/NTPC LIMITED  
 EOC, A-8A, Sector-24, NOIDA-201301



**ATTESTED**  
 YOGENDRA SINGH  
 NOTARY NOIDA  
 G B NAGAR (U.P.) INDIA

12 9 NOV 2024

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 Date: 2024.11.09 12:09:15 +05'30'  
 Reason: I am the deponent  
 Location: NTPC Ltd



**TARIFF FILING FORMS (THERMAL)**

**FOR DETERMINATION OF TARIFF**

**FOR**

**North Karanpura Super Thermal Power Project**

**(From 01.04.2024 to 31.03.2029)**

**PART-I**

**APPENDIX-I**



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

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

## Provided yearwise for the period 2019-24

\*\* Additional Forms

PART-I

\*\*\* 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	✓
FORM-I	Details of Assets De-capitalised during the period	***
FORM-J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM-K	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Woks in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	✓
FORM-T	Summary of issues involved in the petition	***

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

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Reason: AGM (commercial)  
Location: NTPC Ltd



Summary of Tariff										PART-I FORM- 1	
Name of the Petitioner:		NTPC Limited									
Name of the Generating Station:		North Karanpura Super Thermal Power Project									
Place (Region/District/State):		Eastern Region/ Chhatra & Hazaribagh/ Jharkhand									
S. No.	Particulars	Unit	Existing 2023-24	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29	Amount in Rs. Lakhs	
1	2	3	4	5	6	7	8	9	10		
1.1	Depreciation	Rs Lakh	59,420.72	59,569.62	59,614.62	77,072.99	81,397.48	82,819.15	82,880.03		
1.2	Interest on Loan	Rs Lakh	50,719.52	48,736.34	46,756.98	59,874.75	60,520.35	59,725.34	56,459.88		
1.3	Return on Equity	Rs Lakh	68,806.40	68,922.18	68,974.24	89,173.61	94,177.05	95,821.93	95,892.36		
1.4	Interest on Working Capital	Rs Lakh	8,720.13	9,083.60	9,364.04	13,471.99	14,067.22	14,513.47	14,430.62		
1.5	O&M Expenses	Rs Lakh	37,132.40	48,645.60	58,999.60	77,905.40	87,002.30	95,723.06	94,663.77		
1.6	Special Allowance (If applicable)	Rs Lakh	NA								
1.7	Compensation Allowance (If applicable – relevant for column 4 only)	Rs. Lakh									
	<b>Total</b>	Rs Lakh	224,799.17	234,957.34	243,909.49	317,498.74	337,164.41	348,604.95	344,326.66		
2.1	Landed Fuel Cost (coal/gas/RE/NG/ liquid)	Rs/Ton				2,037.00					
	(%) of Fuel Quantity	(%)									
2.2	Landed Fuel Cost (coal from Integrated mine) as per FSA, if any, approved by beneficiaries or as per allocation of coal quantity	Rs/Ton									
	(%) of Fuel Quantity	(%)									
2.3	Landed Fuel Cost Imported Coal					NA					
	(%) of Fuel Quantity										
2.4	Landed Fuel Cost ( coal/gas /RE/NG/liquid) other than FSA	Rs/Ton				NA					
	(%) of Fuel Quantity	(%)									
2.5	Landed Fuel Cost Imported Coal other than FSA.					NA					
	(%) of Fuel Quantity										
3	Secondary Fuel										
	Secondary fuel oil cost	Rs/Unit				0.042					
	Energy Charge Rate ex-bus (Paise/kWh)	Rs/Unit	1,621	1,55	1,55	1,61	1,61	1,61	1,61		
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PART-I FORM- 1(D)							
Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		North Karanpura Super Thermal Power Project					
Amount in Rs. Lakhs							
<b>Statement showing claimed capital cost – (A+B)</b>							
S. No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	12,22,341.55	12,24,049.55	15,21,751.65	16,43,463.65	16,99,348.65	17,01,848.65
2	Add: Addition during the year/period	1,708.00	140.00	1,21,712.00	55,885.00	2,500.00	-
3	Less: De-capitalisation during the year/period	-	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-	-
6	Closing Capital Cost	12,24,049.55	12,24,189.55	16,43,463.65	16,99,348.65	17,01,848.65	17,01,848.65
7	Average Capital Cost	12,23,195.55	12,24,119.55	15,82,697.65	16,71,406.15	17,00,598.65	17,01,848.65
<b>Statement showing claimed capital cost eligible for RoE at normal rate (A)</b>							
S. No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	1222341.55	1224049.55	1521751.65	1643463.65	1699348.65	1701848.65
2	Add: Addition during the year / period	1708.00	140.00	121712.00	55885.00	2500.00	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	1224049.55	1224189.55	1643463.65	1699348.65	1701848.65	1701848.65
7	Average Capital Cost	1223195.55	1224119.55	1582697.65	1671406.15	1700598.65	1701848.65
<b>Statement showing claimed capital cost eligible for RoE at one year MCLR + 350 bps subject to ceiling of 14.00% (B)</b>							
S. No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	0.00	0.00	0.00	0.00	0.00	0.00
2	Add: Addition during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	0.00	0.00	0.00	0.00	0.00	0.00
7	Average Capital Cost	0.00	0.00	0.00	0.00	0.00	0.00
(Petitioner)							

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Location: NTPC Ltd



PART-I FORM- 1(IIA)							
Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		North Karanpura Super Thermal Power Project					
Statement showing Return on Equity at Normal Rate							
Amount in Rs. Lakhs							
S. No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
	Return on Equity						
1	Gross Opening Equity (Normal)	3,66,702.46	3,67,214.86	4,56,525.50	4,93,039.10	5,09,804.60	5,10,554.60
2	Less: Adjustment in Opening Equity	-					
3	Adjustment during the year		0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	3,66,702.46	3,67,214.86	4,56,525.50	4,93,039.10	5,09,804.60	5,10,554.60
5	Add: Increase in equity due to addition during the year / period	512.40	42.00	36513.60	16765.50	750.00	0.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	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	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	3,67,214.86	3,67,256.86	4,93,039.10	5,09,804.60	5,10,554.60	5,10,554.60
11	Average Equity (Normal)	3,66,958.66	3,67,235.86	4,74,782.30	5,01,421.85	5,10,179.60	5,10,554.60
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782	18.782
13	Total ROE	68,922.18	68,974.24	89,173.61	94,177.05	95,821.93	95,892.36
(Petitioner)							

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Reason: AGM (Commercial)  
Location: NTPC Ltd



PART-I FORM- I(HB)							
Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		North Karanpura Super Thermal Power Project					
Statement showing Return on Equity linked to SBI MCLR							
Amount in Rs. Lakhs							
S. No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
Return on Equity (beyond the original scope of work including additional capitalization due to Change in Law, ECS, Force Majeure)							
1	Gross Opening Equity (Normal)	0.00	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	0.00
3	Adjustment during the year	0.00	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	0.00
5	Add: Increase in equity due to addition during the year / period	0.00	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	0.00
8	Less: Decrease due to reversal during the year / period	0.00	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	0.00
10	Net closing Equity (Normal)	0.00	0.00	0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	0.00	0.00
12	Rate of ROE (%)	0.062	0.062	0.064	0.064	0.067	0.070
13	Total ROE	0.00	0.00	0.00	0.00	0.00	0.00
(Petitioner)							

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Reason: AGM (Commercial)  
Location: NTPC Ltd



Plant Characteristics

Name of the Petitioner : NTPC Limited

Name of the Generating Station : North Karanpura Super Thermal Power Project (3 x 660 MW)

Unit(s)/ Block(s) Parameters	Unit I	Unit II	Unit III
Installed Capacity ( MW)	660	660	660
Schedule COD as per Investment Approval	May'19	Nov'19	May'20
Actual / Anticipated COD	01.03.2023	20.03.2024	May'25
Pit Head or Non Pit Head	Pit Head		
Name of the Boiler Manufacture	M/s BHEL		
Name of Turbine Generator Manufacture	M/s SIEMENS A G		
Main Steams Pressure at Turbine inlet (kg/Cm2) abs	260 (at, absolute)		
Main Steam Temperature at Turbine inlet (oC)	593		
Reheat Steam Pressure at Turbine inlet (kg/Cm2)	54.06 (at, absolute)		
Reheat Steam Temperature at Turbine inlet (oC)	593		
Main Steam flow at Turbine inlet under MCR condition (tons /hr)	2010.654		
Main Steam flow at Turbine inlet under VWO condition (tons /hr)	2172.876		
Unit Gross electrical output under MCR /Rated condition (MW)	660		
Unit Gross electrical output under VWO condition (MW)	693		
Guaranteed Design Gross Unit Heat Rate (kCal/kWh)	Unit heat rate of 2236.9 kCal/kWh guaranteed by the supplier		
<b>Conditions on which design turbine cycle heat rate guaranteed</b>			
% MCR	100		
% Makeup Water Consumption	0		
Design Capacity of Make up Water System	Design make-up capacity of intake water system (intake from Garhi river) 4*3000 = 12000 m3/hr. Water available only during monsoon		
Design Capacity of Inlet Cooling System	Design Air Flow to ACC : 78260 m3/sec		
Design Cooling Water Temperature ( C)	Design Ambient Air Temp Of ACC : 38 degC		
Back Pressure (kg/cm2)	196 mm Hg (abs)		
Steam flow at super heater outlet under BMCR condition (tons/hr)	2220		
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)	269 (g)		
Steam Temperature at super heater outlet under BMCR condition (Deg C)	596		
Steam Temperature at Reheater outlet at BMCR condition (Deg C)	596		
Design / Guaranteed Boiler Efficiency (%)	Unit heat rate of 2236.9 kCal/kWh guaranteed by the supplier		
Design Fuel with and without Blending of domestic/imported coal	Domestic		
Type of Cooling Tower	Direct cooling air cooled condensers with mechanical draft fan (90 no. for each unit)		
Type of cooling system	Direct Cooling, Air Cooled Condenser (ACC)		
Type of Boiler Feed Pump	2 x 50% Turbine Driven BFP & 1 x 30% Motor Driven BFP (Standby)		
Type of Coal Mill	Bowl Mill		
<b>Fuel Details</b>			
- Primary Fuel	Coal		
-Secondary Fuel	LDO		
-Alternate Fuels	-		
Types of SOX control system	FGD		
Types of NOX control system	Over Fire Air Dampers (OFA)		
Details of SPM control system	High Efficiency ESPs		
Special Features/Site Specific Features	-		
Special Technological Features	Air Cooled Condenser		
Environmental Regulation related features	FGD, OFA, ESPs		
Any other special features	-		
Heat Balance Diagram is attached with this form			

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Reason: AGM (Commercial)  
Location: NTPC Ltd



PART-I FORM- 3								
Normative parameters considered for tariff computations								
Name of the Petitioner:		NTPC Limited						
Name of the Generating Station:		North Karanpura Super Thermal Power Project						
(Year Ending March)								
Particulars	Unit	Existing 2023-24	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9
Base Rate of Return on Equity SS	%	15.50	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization	%	-	12.15%	12.15%	12.15%	12.15%	12.15%	12.15%
Effective Tax Rate	%	17.4720	17.4720	17.4720	17.4720	17.4720	17.4720	17.4720
Target Availability	%	85.00	85.00	85.00	85.00	85.00	85.00	85.00
Peak Hours	%	85.00	85.00	85.00	85.00	85.00	85.00	85.00
Off Peak Hours	%	85.00	85.00	85.00	85.00	85.00	85.00	85.00
ii- Average Monthly Frequency Response Performance ##	0-1	To be submitted during TRUE UP						
Auxiliary Energy Consumption ***	%	6.75	6.250	6.250	7.250	7.250	7.250	7.250
Gross Station Heat Rate	kCal/kWh	2348.75	2337.56	2337.56	2337.56	2337.56	2337.56	2337.56
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC1	in Days	40	40	40	40	40	40	40
Cost of Main Secondary Fuel Oil for WC1	in Months	2	2	2	2	2	2	2
Fuel Cost for WC2	in Months							
Liquid Fuel Stock for WC2	in Months							
O&M Expenses	Rs lakh/MW	23.26	25.78	27.13	27.13	28.56	30.06	31.64
Maintenance Spares for WC	% of O&M	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Receivables for WC	in Days	45	45	45	45	45	45	45
Storage capacity of Primary fuel	MT	363368	363368	363368	363368	363368	363368	363368
SBI 1 Year MCLR plus 325 basis point	%	12.00	11.90	11.90	11.90	11.90	11.90	11.90
Blending ratio of domestic coal/imported coal								
Norms for consumption of reagent		To be submitted later/At the time of TRUE UP,						
Specific Limestone consumption for Wet Limestone FGD								
Specific Limestone consumption for Lime Spray Dryer or Semi-dry FGD								
Specific consumption of sodium bicarbonate								
Specific Limestone consumption for CFBC based generating station								
specific urea consumption of the SNCR								
Specific ammonia consumption of the SCR								
Transit and Handling Losses of coal or lignite, as applicable								
SS Additional RoE due to better ramp rate would be claimed in the time of true-up or as per guidelines to be issued *** APC has been considered as per expected ODE of FGD system ## To be submitted at the time of trueing up based on RPC certification								
Petitioner								

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**Calculation of O&M Expenses**

Name of the Company :	NTPC Limited
Name of the Power Station :	North Karanpura Super Thermal Power Project

Amount in Rs. Lakhs

S.No.	Particulars	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	O&M expenses under Reg.36(1)(1)						
1a	Normative	34029.60	35811.60	53717.40	56548.80	59518.80	62647.20
2	O&M expenses under Reg.36(1)(6)						
2a	Water Charges **	1712.00	3768.00	3768.00	4144.00	4558.00	5014.00
2b	Security expenses **	3404.00	4420.00	4420.00	4657.00	4907.00	5172.00
2c	O&M expenses-EGD	0.00	0.00	1000.00	1652.50	1739.26	1830.57
3	O&M expenses-Ash Transportation**	9500.00	15000.00	15000.00	20000.00	25000.00	20000.00
	<b>Total O&amp;M Expenses</b>	<b>48645.60</b>	<b>58999.60</b>	<b>77905.40</b>	<b>87002.30</b>	<b>95723.06</b>	<b>94663.77</b>

\*\* Subject to true up

Petitioner







Your site Statement of Acknowledgment (SNA) after CCR

| Name of the Employer           |                                | NTPC Limited                               |                        |                      |         |         |        |                                  |   
   
   
   
   
   |
|--------------------------------|--------------------------------|--|------------------------|----------------------|---------|---------|--------|----------------------------------
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---|
| Name of the Contracting Medium |                                | NORTH BOMBAYRA POWER Thermal Power Project |                        |                      |         |         |        |                                  |   
   
   
   
   
   |
| C-550                          |                                | 01.07.2015 (As per contract)               |                        |                      |         |         |        |                                  |   
   
   
   
   
   |
| For Financial Year             |                                | 2014-15 (Summary)                          |                        |                      |         |         |        |                                  |   
   
   
   
   
   |
| Sl. No.                        | Particulars of Work/Assignment | 2014-15                                    | 01.01.2015 to 31.03.15 | 01.04.15 to 31.03.16 | 2017-18 | 2018-19 | Total  | Regulations under which estimate | Amount in Rs. Lakhs   
   
   
   
   
   |
| 1                              | 2                              | 3  | 4                      | 5                    | 6       | 7       | 8      | 9                                | 10  
   
   
   
   
   |
| 12                             | Chlorine Gas System (CLOS)     |  |                        | 380.00               |         |         | 380.00 | 2017 (1) & 2018 (1) & 2019 (1)   |   
   
   
   
   
   |
|                                |                                |  |                        |                      |         |         |        |                                  | <p>Chlorine gas is being stored directly in various stages of water treatment in numerous water storage and/or holding tanks provided in the water retaining structures. Chlorine gas is very hazardous and hence persons find in case of leakage handling and storage of same involves risk to the life of people at large.</p> <p>Installation of CLOS system for replacing chlorine gas existing system is being undertaken at all NTPC stations in industrial sector of power plant engaged in power plant operation. With this set up in accordance to the various provisions laid down in the "Safety and Health Management Guidelines - Chemical Treatment" which provides that installed systems shall be continuously inspected and upgraded for the prevention and management of chemical accidents. It is also pointed that the safety for workers of CLOS system is also in compliance with the duties recommended for its employees (NTPC) under the contract (1) and in (1) of "The Occupational Safety, Health and Working Condition Code, 2002" notified by Ministry of Labour &amp; Welfare, Govt. of India. Safety related provisions detailed in (1) of 2019 industrial safety code of which are reproduced below:</p> <p>"THE RULES OF 1987 (OTHER AMENDMENTS) OF THE OSH Act, 1947</p> <p>(1) (1) Every employer shall</p> <p>(a) ensure that every person who is likely to be exposed to any hazard to health or safety in connection with the employment</p> <p>(b) take such measures as far as is reasonably practicable, a working environment that is safe and without risk to the health of the employees"</p> <p>Some of the major benefits of installation of CLOS system are as under</p> <p>(i) Avoid possible accidents due to leakage of chlorine gas handling</p> <p>(ii) Improves safety of personnel and plant &amp; equipment</p> <p>(iii) Reduces the difficulty of water retreating in various equipment such as chlorine, storage tanks, cooling towers, condensers etc. &amp; piping etc. thereby reduces the replacement cost.</p> <p>(iv) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(v) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(vi) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(vii) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(viii) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(ix) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(x) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should not work for more than 48 hours in a week.</p> <p>(xi) Helps in complying with statutory provision of various states that have already made a mandatory provision (2012) during various health, safety and welfare, in working hours which requires that employees should 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Reason: AGM (Commercial)  
Location: NTPC Ltd



Name of the Petitioner		NTPC Limited		Amount in Rs Lakhs		PART-I FORM-9	
Name of the Generating Station		North Karampura Super Thermal Power Project Stage-I					
COD of Station (anticipated)		01.05.2025					
For Financial Year		2024-25					
Head of Work / Equipment		Projected add cap Unit vii & Unit viii from 01.04.2024 to 31.03.2025				Rs. Lakhs	
Sl No.		ACE Claimed (Projected)				Justification	Admitted Cost by the Commission, if any
		Actual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	
		3	4	5= (3+4)	6	7	8
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
1	EPC Package	1,000.00		1000.00		24(1)(b)	Original Scope work under Regulation 24(1)(b)
2	Barraje & breaker water pump House Package	708.00		708.00			
	Total Additional Capitalisation Claimed (A)	1,708.00	-	1,708.00			
B. Works beyond Original scope under add-cap due to Change in Law							
	Total Additional Capitalisation Claimed (B)	-	-	-	-		
	Total (A+B)	1,708.00	-	1,708.00			
Petitioner							

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<div> <div> Name of the Petitioner  Name of the Generating Station  COD of Station (anticipated)  For Financial Year </div> <div> NTPC Limited  North Karanpura Super Thermal Power Project (3 x 660 MW)  01.05.2025  2025-26 </div> </div>							PART-I FORM-9		Rs. Lakhs	
		Projected addcap Unit #1 & Unit#2 from 01.04.2025 to 30.04.2025								
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)			Regulations under which claimed	Justification	Admitted Cost by the Commission, if any			
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis included in col. 3						
1	2	3	4	5= (3+4)	6	7	8	9		
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate										
1	Ash Dyke	140.00		140.00						
Total Additional Capitalisation Claimed		140.00	-	140.00						
Petitioner										

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PART-I FORM-9									
Name of the Petitioner		NTPC Limited							
Name of the Generating Station		North Karanpura Super Thermal Power Project (3 x 660 MW)							
COD of Station (anticipated)		2027-28							
For Financial Year		Rs. Lakhs							
		Projected addcap Unit #1,2 & 3 from 01.04.2027 to 31.03.2028							
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)			IDC Included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any	
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis					
1	2	3	4	5= (3+4)	6	7	8	9	
A. Works under Original scope, Change in Law etc. eligible for RoF at Normal Rate									
1	EPC Package	2,500.00			2500.00	24(1)(b)	Original Scope work under Regulation 24(1)(b)		
Total Additional Capitalisation Claimed		2,500.00	-		2,500.00				
Petitioner									

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<div> <div> Name of the Petitioner  Name of the Generating Station  COD of Station (anticipated)  For Financial Year </div> <div> NTPC Limited  North Karanpura Super Thermal Power Project (3 x 660 MW)  2028-29 </div> </div>							<div> <div> PART-I  FORM-9 </div> <div>Rs. Lakhs</div> </div>	
<div> <div> Projected addcap Unit #1,2 &amp; 3 from 01.04.2028 to 31.03.2029 </div> </div>								
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)			IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis				
1	2	3	4	5= (3+4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1		-						
Total Additional Capitalisation Claimed								
Petitioner								

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PART-I FORM- 10												
Name of the Petitioner		NTPC Limited										
Name of the Generating Station		North Karanpura Super Thermal Power Project										
Date of Commercial Operation		01-05-2025										
		Amount in Rs Lakh										
Financial Year (Starting from COD)1		Actual					Admitted					
		2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29	
1			3	4	5	6	7	8	9	10	11	
Amount capitalised in Work/ Equipment												
Financing Details												
Loan-1												
Loan-2												
Loan-3 and so on												
Total Loan2												
Equity												
Internal Resources												
Others (Pl. specify)												
Total												
Add cap is proposed to be finance in Debt:Equity ratio of 70:30												
(Petitioner)												

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PART-I FORM-11						
Calculation of Depreciation						
Name of the Petitioner: NTPC Limited						
Name of the Generating Station: North Karanpura Super Thermal Power Project (3 x 660 MW)						
Sl. No.	Name of the Asset	Gross Block as on COD of Unit-1	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to COD of Unit-2	Gross Block as on COD of Unit-2	Depreciation Rates as per CERC's Depreciation Rate Schedule
1	2	3	4	5=Col.2 X Col.3	3	4
1	Freehold Land	49,506.51	0.00%	0	49,521.51	0.00%
2	Leasehold Land	1,03,522.70	3.34%	3457.66	1,03,380.39	3.34%
3	Roads, bridges, culverts & helipads	8271.43	3.34%	276.27	9,360.86	3.34%
4	Main Plant Buildings	16672.49	3.34%	556.86	43893.41	3.34%
5	Other Buildings	30053.98	3.34%	1003.8	36,157.88	3.34%
6	Temporary erection	438.86	100.00%	438.86	438.86	100.00%
7	Water supply, drainage & sewerage	9576.30	5.28%	505.63	10,181.22	5.28%
8	Earth dam reservoir	55835.55	5.28%	2948.12	82560.16	5.28%
8	Plant and machinery	605780.59	5.28%	31985.22	10,53,176.12	5.28%
9	Furniture and fixtures	1903.13	6.33%	120.47	2,451.37	6.33%
10	Other Office Equipments	832.80	6.33%	52.72	939.42	6.33%
11	EDP, W/P machines & S&I/COM equipment	733.31	15.00%	110	806.25	15.00%
12	Vehicles including speedboats	10.02	9.50%	0.95	10.02	9.50%
13	Construction equipment	1237.35	5.28%	65.33	1,265.79	5.28%
14	Electrical installations	7573.97	5.28%	399.85	8,552.68	5.28%
15	Communication equipment	137.36	6.33%	8.7	364.74	6.33%
16	Hospital equipment	172.30	5.28%	9.1	172.30	5.28%
17	Laboratory and workshop equipment	36.11	5.28%	1.91	36.11	5.28%
19	Software	110.51	15.00%	16.58	113.14	15.00%
	TOTAL	892404.3		41958.03	1403382.2	
	Weighted Average Rate of Depreciation (%)			4.70		
						68288.58
						4.57

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PART-4 FORM-12									
Statement of Depreciation									
Name of the Company :		NTPC Limited							
Name of the Power Station :		North Karanpura Super Thermal Power Project							
		{Amount in Rs Lakhs}							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26 (01.04.25-30.04.25)	2025-26 (01.05.25-31.03.26)	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	8	9	
1	Opening Capital Cost	1219940.22	12,22,341.55	12,24,049.55	15,21,731.65	16,43,463.65	16,99,348.65	17,01,848.65	
2	Closing Capital Cost	1222341.55	12,24,049.55	12,24,189.55	16,43,463.65	16,99,348.65	17,01,848.65	17,01,848.65	
3	Average Capital Cost	1221140.88	12,23,195.55	12,24,119.55	15,82,607.65	16,71,406.15	17,00,598.65	17,01,848.65	
1a	Cost of IT Equipments & Software included in (1) above <sup>Ans</sup>	919.39	919.39	919.39	919.39	919.39	919.39	919.39	
2a	Cost of IT Equipments & Software included in (2) above <sup>Ans</sup>	919.39	919.39	919.39	919.39	919.39	919.39	919.39	
3a	Average Cost of IT Equipments & Software	919.39	919.39	919.39	919.39	919.39	919.39	919.39	
4	Freehold land	49,506.51	49,506.51	49,506.51	49,506.51	49,506.51	49,506.51	49,506.51	
5	Rate of depreciation	4.87	4.87	4.87	4.87	4.87	4.87	4.87	
6	Depreciable value	10,54,362.87	10,56,412.07	10,57,243.67	13,79,882.97	14,59,891.62	14,86,074.87	14,87,199.87	
7	Balance useful life at the beginning of the period	23.95	22.95	22.95	23.63	22.63	21.63	20.63	
8	Remaining depreciable value	10,17,348.07	7,77,020.84	7,18,282.82	10,36,022.28	11,15,940.93	10,60,816.70	9,79,122.54	
9	Depreciation (for the period)	59,429.72	59,569.62	4,399.83	70,738.23	81,397.48	82,819.15	82,880.63	
10	Depreciation (annualised)	59,420.72	59,569.62	59,614.62	77,072.99	81,397.48	82,819.15	82,880.63	
11	Cumulative depreciation at the end of the period	279,523.28	3,38,960.86	3,43,860.69	4,14,598.92	4,25,358.17	5,08,077.52	5,90,957.38	
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	132.05	-	-	-	-	-	-	
15	Net Cumulative depreciation at the end of the period after adjustments	2,79,391.23	3,38,960.86	3,43,860.69	4,14,598.92	4,25,358.17	5,08,077.52	5,90,957.38	
<sup>Ans</sup>	Shall be provided at the time of true up	(Petitioner)							

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S.No.	Particulars	2024-25	2023-24 (1.4.2023 to 30.4.2024)	2022-23 (1.4.2022 to 31.3.2023)	2021-22	2020-21	2019-20
1	<b>Axis Bank FY (Refinancing of Axis Bank E) Repayment wof 29.5.2024</b>						
	Loan Amount opening	65,00,00,000	65,00,00,000	65,00,00,000	65,00,00,000	65,00,00,000	65,00,00,000
	Accumulative repayment of loan, till date of	2,50,00,000	13,00,00,000	13,00,00,000	40,00,00,000	30,00,00,000	13,00,00,000
	Net Loan opening	62,50,00,000	52,00,00,000	52,00,00,000	25,00,00,000	35,00,00,000	52,00,00,000
	Interest charges due to 31/3/23						
	Interest charges due to 31/3/22						
	Total	62,50,00,000	52,00,00,000	52,00,00,000	25,00,00,000	35,00,00,000	52,00,00,000
	Repayment of loan during the year	5,00,00,000	-	5,00,00,000	5,00,00,000	5,00,00,000	5,00,00,000
	Net loan closing	57,50,00,000	52,00,00,000	47,00,00,000	20,00,00,000	30,00,00,000	47,00,00,000
	Average net loan	59,25,00,000	52,00,00,000	49,75,00,000	22,50,00,000	32,50,00,000	49,50,00,000
2	<b>Bank of Baroda-F (Repayment wof 11.11.2023)</b>						
	Loan Amount opening	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000
	Accumulative repayment of loan, till date of	-	-	-	-	-	-
	Net Loan opening	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000
	Interest charges due to 31/3/23						
	Interest charges due to 31/3/22						
	Total	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000
	Repayment of loan during the year	-	-	-	3,00,00,000	3,00,00,000	3,00,00,000
	Net loan closing	35,00,00,000	35,00,00,000	35,00,00,000	32,00,00,000	32,00,00,000	32,00,00,000
	Average net loan	35,00,00,000	35,00,00,000	35,00,00,000	33,50,00,000	33,50,00,000	33,50,00,000
3	<b>Bank Of India-F (Repayment wof 7.12.2024)</b>						
	Loan Amount opening	13,27,00,000	13,27,00,000	13,27,00,000	13,27,00,000	13,27,00,000	13,27,00,000
	Accumulative repayment of loan, till date of	-	3,00,00,000	1,10,00,000	2,21,00,000	3,01,00,000	4,32,00,000
	Net Loan opening	13,27,00,000	12,90,00,000	12,16,00,000	11,06,00,000	10,26,00,000	8,95,00,000
	Interest charges due to 31/3/23						
	Interest charges due to 31/3/22						
	Total	13,27,00,000	12,90,00,000	12,16,00,000	11,06,00,000	10,26,00,000	8,95,00,000
	Repayment of loan during the year	-	-	1,10,00,000	1,10,00,000	1,10,00,000	1,10,00,000
	Net loan closing	13,27,00,000	12,90,00,000	11,06,00,000	9,96,00,000	9,16,00,000	7,85,00,000
	Average net loan	13,27,00,000	12,90,00,000	11,61,00,000	10,51,00,000	9,71,00,000	8,40,00,000
	Rate of interest on loan on annual basis	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
4	<b>Bank Of India-F A</b>						
	Loan Amount opening	48,48,00,000	48,48,00,000	48,48,00,000	48,48,00,000	48,48,00,000	48,48,00,000
	Accumulative repayment of loan, till date of	-	3,00,00,000	3,00,00,000	1,14,30,000	11,01,00,000	11,40,00,000
	Net Loan opening	48,48,00,000	45,48,00,000	45,48,00,000	47,33,70,000	37,47,00,000	37,08,00,000
	Interest charges due to 31/3/23						
	Interest charges due to 31/3/22						
	Total	48,48,00,000	45,48,00,000	45,48,00,000	47,33,70,000	37,47,00,000	37,08,00,000
	Repayment of loan during the year	3,00,00,000	-	3,00,00,000	3,00,00,000	3,00,00,000	3,00,00,000
	Net loan closing	45,48,00,000	45,48,00,000	42,48,00,000	44,33,70,000	34,47,00,000	34,08,00,000
	Average net loan	46,98,00,000	45,48,00,000	43,98,00,000	45,83,70,000	35,97,00,000	35,58,00,000
	Rate of interest on loan on annual basis	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
5	<b>NTPC Bank Limited-F (Cumulative repayment from 04.12.2023)</b>						
	Loan Amount opening	4,00,00,000	4,00,00,000	4,00,00,000	4,00,00,000	4,00,00,000	4,00,00,000
	Accumulative repayment of loan, till date of	1,33,33,333	1,77,77,778	1,77,77,778	2,22,22,222	2,66,66,667	3,11,11,111
	Net Loan opening	2,66,66,667	2,22,22,222	2,22,22,222	1,77,77,778	1,33,33,333	88,88,889
	Interest charges due to 31/3/23						
	Interest charges due to 31/3/22						
	Total	2,66,66,667	2,22,22,222	2,22,22,222	1,77,77,778	1,33,33,333	88,88,889
	Repayment of loan during the year	44,44,444	-	44,44,444	44,44,444	44,44,444	44,44,444
	Net loan closing	2,22,22,222	2,22,22,222	1,77,77,778	1,33,33,333	88,88,889	44,44,444
	Average net loan	2,44,44,444	2,22,22,222	2,00,00,000	1,55,55,556	1,11,11,111	66,66,667
	Rate of interest on loan on annual basis	7.9900%	7.9900%	7.9900%	7.9900%	7.9900%	7.9900%



S. No.	Particulars	2024-25	2023-24 (1.4.2023 to 30.4.2024)	2022-23 (1.4.2022 to 31.3.2023)	2021-22	2020-21	2019-20
6	<b>HDFC Bank Limited-V (Drawt 2 and Drawt 3 - Repayment wof 25.09.2024)</b>						
	Drawt (Drawt) opening	1,25,00,00,000	1,25,00,00,000	1,25,00,00,000	1,25,00,00,000	1,25,00,00,000	1,25,00,00,000
	Capitalization requirement of drawt 30 days or	-	-	-	-	-	-
	Net Loan opening	1,25,00,00,000	1,11,91,11,111	1,11,91,11,111	97,22,22,222	83,33,33,333	69,44,44,444
	Repayment decrease due to PDSV	-	-	-	-	-	-
	Repayment decrease due to ACS	-	-	-	-	-	-
	Total	1,25,00,00,000	1,11,91,11,111	1,11,91,11,111	97,22,22,222	83,33,33,333	69,44,44,444
	Repayment of loan during the year	13,00,00,000	-	13,00,00,000	13,00,00,000	13,00,00,000	13,00,00,000
	Net loan closing	1,11,91,11,111	1,11,91,11,111	97,22,22,222	83,33,33,333	69,44,44,444	56,44,44,444
	Repayment net loan	1,25,00,00,000	1,11,91,11,111	1,04,18,00,000	90,22,22,222	70,33,33,333	56,44,44,444
	Rate of interest on loan on annual basis	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%
	Repayment net loan	14,00,00,000	8,00,00,000	9,00,00,000	7,17,00,000	6,00,00,000	4,00,00,000
7	<b>HDFC BANK LIMITED VI (Drawt 3 and Drawt 3 and 4 - Repayment wof 26.09.2025)</b>						
	Drawt (Drawt) opening	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000
	Capitalization requirement of drawt 30 days or	-	-	-	-	-	-
	Net Loan opening	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,21,77,77,778	1,00,00,00,000	81,33,33,333
	Repayment decrease due to PDSV	-	-	-	-	-	-
	Repayment decrease due to ACS	-	-	-	-	-	-
	Total	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,21,77,77,778	1,00,00,00,000	81,33,33,333
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,21,77,77,778	1,00,00,00,000	81,33,33,333
	Repayment net loan	1,37,00,00,000	1,37,00,00,000	1,37,00,00,000	1,21,77,77,778	1,00,00,00,000	81,33,33,333
	Rate of interest on loan on annual basis	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%
	Repayment net loan	10,00,00,000	10,00,00,000	10,00,00,000	9,00,00,000	7,00,00,000	5,00,00,000
8	<b>HDFC BANK LIMITED VII (Drawt 3, 4 and 5 - Repayment wof 13.6.2026)</b>						
	Drawt (Drawt) opening	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000
	Capitalization requirement of drawt 30 days or	-	-	-	-	-	-
	Net Loan opening	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000
	Repayment decrease due to PDSV	-	-	-	-	-	-
	Repayment decrease due to ACS	-	-	-	-	-	-
	Total	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000
	Repayment net loan	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000	2,30,00,00,000
	Rate of interest on loan on annual basis	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%
	Repayment net loan	10,00,00,000	10,00,00,000	10,00,00,000	9,00,00,000	7,00,00,000	5,00,00,000
9	<b>HDFC-IX (Drawt 2, 4, 7, 8 and 10 - Repayment wof 30.6.2026)</b>						
	Drawt (Drawt) opening	2,81,00,00,000	2,81,00,00,000	2,81,00,00,000	2,81,00,00,000	2,81,00,00,000	2,81,00,00,000
	Capitalization requirement of drawt 30 days or	-	-	-	-	-	-
	Net Loan opening	2,81,00,00,000	2,38,25,00,000	2,38,25,00,000	2,17,22,22,222	1,88,75,00,000	1,54,11,11,111
	Repayment decrease due to PDSV	-	-	-	-	-	-
	Repayment decrease due to ACS	-	-	-	-	-	-
	Total	2,81,00,00,000	2,38,25,00,000	2,38,25,00,000	2,17,22,22,222	1,88,75,00,000	1,54,11,11,111
	Repayment of loan during the year	21,75,00,000	-	21,75,00,000	21,75,00,000	21,75,00,000	21,75,00,000
	Net loan closing	2,59,25,00,000	2,38,25,00,000	2,16,50,00,000	1,95,47,22,222	1,67,00,00,000	1,32,36,11,111
	Repayment net loan	2,80,12,50,000	2,38,25,00,000	2,20,50,00,000	2,00,00,00,000	1,88,00,00,000	1,54,11,11,111
	Rate of interest on loan on annual basis	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%
	Repayment net loan	14,00,00,000	18,00,00,000	10,18,00,000	10,42,00,000	10,00,00,000	12,00,00,000
10	<b>HDFC-X (Drawt 2, 5 and 4 - Repayment wof 24.11.2026)</b>						
	Drawt (Drawt) opening	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000
	Capitalization requirement of drawt 30 days or	-	-	-	-	-	-
	Net Loan opening	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,56,79,00,000	2,32,00,00,000	2,00,00,00,000
	Repayment decrease due to PDSV	-	-	-	-	-	-
	Repayment decrease due to ACS	-	-	-	-	-	-
	Total	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,56,79,00,000	2,32,00,00,000	2,00,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,56,79,00,000	2,32,00,00,000	2,00,00,00,000
	Repayment net loan	2,70,00,00,000	2,70,00,00,000	2,70,00,00,000	2,56,79,00,000	2,32,00,00,000	2,00,00,00,000
	Rate of interest on loan on annual basis	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%	7.9800%
	Repayment net loan	22,18,00,000	22,00,00,000	21,22,00,000	19,42,00,000	17,00,00,000	15,11,11,111



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
11	<b>HDFC-XI (Draw 1 - Repayment ref 14.11.2027)</b>						
	Cost (Draw) opening	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000
	Accumulative repayment of draw all years to	-	-	-	-	-	-
	Net loan opening	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000
	Interest charges due to FDI/F	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000
	Average net loan	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000	2,42,00,000
	Rate of interest on loan on annual basis	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%
	Interest on loan	18,97,260	18,97,260	18,97,260	18,97,260	18,97,260	18,97,260
12	<b>HDFC-XI (Draw 1 - 11.10.2025 - Repayment ref 13.10.2027)</b>						
	Cost (Draw) opening	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Accumulative repayment of draw all years to	-	-	-	-	-	-
	Net loan opening	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Interest charges due to FDI/F	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Average net loan	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Rate of interest on loan on annual basis	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%
	Interest on loan	3,80,00,000	3,80,00,000	3,80,00,000	3,80,00,000	3,80,00,000	3,80,00,000
	<b>HDFC-XI (Draw 2 - 1.11.2025 - Repayment ref 13.10.2027)</b>						
	Cost (Draw) opening	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000
	Accumulative repayment of draw all years to	-	-	-	-	-	-
	Net loan opening	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000
	Interest charges due to FDI/F	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000
	Average net loan	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000	66,00,00,000
	Rate of interest on loan on annual basis	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%
	Interest on loan	5,07,10,000	5,07,10,000	5,07,10,000	5,07,10,000	5,07,10,000	5,07,10,000
	<b>HDFC-XI (Draw 3 - 1.12.2025 - Repayment ref 13.10.2027)</b>						
	Cost (Draw) opening	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000
	Accumulative repayment of draw all years to	-	-	-	-	-	-
	Net loan opening	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000
	Interest charges due to FDI/F	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000
	Average net loan	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000	47,00,00,000
	Rate of interest on loan on annual basis	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%
	Interest on loan	3,57,20,000	3,57,20,000	3,57,20,000	3,57,20,000	3,57,20,000	3,57,20,000
	<b>HDFC-XI (Draw 4 - 1.1.2026 - Repayment ref 13.10.2027)</b>						
	Cost (Draw) opening	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000
	Accumulative repayment of draw all years to	-	-	-	-	-	-
	Net loan opening	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000
	Interest charges due to FDI/F	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000
	Average net loan	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000	1,47,00,00,000
	Rate of interest on loan on annual basis	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%	7.6433%
	Interest on loan	11,17,20,000	11,17,20,000	11,17,20,000	11,17,20,000	11,17,20,000	11,17,20,000



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
<b>HDFC-88 (Draw 6 - 1.3.2024 - Repayment ref 13.10.2022)</b>							
	Cost (Drawn amount)	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000
	Accumulative repayment of drawl 40 years at	-	-	-	-	-	-
	Net Loan repayment	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000
	Contract net loan	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000	1,93,00,00,000
	Rate of interest on loan on annual basis	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%
	Interest on loan	13,56,00,000	13,56,00,000	13,56,00,000	13,56,00,000	13,56,00,000	13,56,00,000
<b>HDFC-88 (Draw 7 - 1.3.2024 - Repayment ref 13.10.2022)</b>							
	Cost (Drawn amount)	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000
	Accumulative repayment of drawl 40 years at	-	-	-	-	-	-
	Net Loan repayment	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000
	Contract net loan	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000	1,48,00,00,000
	Rate of interest on loan on annual basis	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%
	Interest on loan	10,34,00,000	10,34,00,000	10,34,00,000	10,34,00,000	10,34,00,000	10,34,00,000
<b>KDCI - 98 (Repayment ref 20.12.2024)</b>							
	Cost (Drawn amount)	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Accumulative repayment of drawl 40 years at	-	-	-	-	-	-
	Net Loan repayment	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Contract net loan	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Rate of interest on loan on annual basis	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
	Interest on loan	79,99,999	79,99,999	79,99,999	79,99,999	79,99,999	79,99,999
<b>KDCI - 98 (Draw 06 on 30.3.2025 - Repayment ref 20.12.2024)</b>							
	Cost (Drawn amount)	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000
	Accumulative repayment of drawl 40 years at	-	-	-	-	-	-
	Net Loan repayment	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000
	Contract net loan	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000	2,50,00,00,000
	Rate of interest on loan on annual basis	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
	Interest on loan	19,99,99,999	19,99,99,999	19,99,99,999	19,99,99,999	19,99,99,999	19,99,99,999
<b>Industrial Bank</b>							
	Cost (Drawn amount)	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000
	Accumulative repayment of drawl 40 years at	-	-	-	-	-	-
	Net Loan repayment	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000
	Contract net loan	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000	52,00,00,000
	Rate of interest on loan on annual basis	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
	Interest on loan	4,16,00,000	4,16,00,000	4,16,00,000	4,16,00,000	4,16,00,000	4,16,00,000
<b>PNB-05 (cumulative repayment from 01.03.2022)</b>							
	Cost (Drawn amount)	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000
	Accumulative repayment of drawl 30 years at	30,30,30,303	48,44,44,444	48,44,44,444	48,44,44,444	48,44,44,444	48,44,44,444
	Net Loan repayment	69,69,69,697	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	69,69,69,697	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	69,69,69,697	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556
	Contract net loan	69,69,69,697	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556	51,55,55,556
	Rate of interest on loan on annual basis	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%
	Interest on loan	6,96,96,969	4,84,84,848	4,84,84,848	4,84,84,848	4,84,84,848	4,84,84,848
<b>PNB-05 (Repayment starts from 16.02.2023)</b>							
	Cost (Drawn amount)	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000	1,00,00,00,000
	Accumulative repayment of drawl 30 years at	24,22,22,222	36,33,33,333	36,33,33,333	36,33,33,333	36,33,33,333	36,33,33,333
	Net Loan repayment	75,77,77,778	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	75,77,77,778	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	75,77,77,778	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667
	Contract net loan	75,77,77,778	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667	63,66,66,667
	Rate of interest on loan on annual basis	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%
	Interest on loan	7,57,77,777	6,36,66,666	6,36,66,666	6,36,66,666	6,36,66,666	6,36,66,666
<b>PNB-X (Draw 3 and 4 - Repayment starts from 27.03.2024)</b>							
	Cost (Drawn amount)	1,90,00,00,000	1,90,00,00,000	1,90,00,00,000	1,90,00,00,000	1,90,00,00,000	1,90,00,00,000
	Accumulative repayment of drawl 30 years at	51,55,55,556	77,33,33,333	77,33,33,333	77,33,33,333	77,33,33,333	77,33,33,333
	Net Loan repayment	1,38,44,44,444	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667
	Interest charges due to FIDIC	-	-	-	-	-	-
	Interest charges due to MCI	-	-	-	-	-	-
	Total	1,38,44,44,444	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667
	Appropriation of loan during the year	-	-	-	-	-	-
	Net loan charges	1,38,44,44,444	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667
	Contract net loan	1,38,44,44,444	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667	1,12,66,66,667
	Rate of interest on loan on annual basis	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%	7.0000%
	Interest on loan	13,84,44,444	11,26,66,666	11,26,66,666	11,26,66,666	11,26,66,666	11,26,66,666



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
18	<b>State Bank of India - VII (Draws 4, 7, 8, 11, 12, 20 and 24 - cumulative repayment from 31.03.2022)</b>						
	Draws (Drawn) opening	2,44,00,00,000	2,44,00,00,000	2,44,00,00,000	2,44,00,00,000	2,44,00,00,000	2,44,00,00,000
	Cumulative repayment of draw (All years to 31.03.2022)	81,33,33,333	1,08,44,44,444	1,08,44,44,444	1,08,44,44,444	1,08,44,44,444	1,08,44,44,444
	Net Loan opening	1,62,66,66,667	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	1,62,66,66,667	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556	1,35,55,55,556
	Repayment of loan during the year	27,11,11,111	-	27,11,11,111	27,11,11,111	27,11,11,111	27,11,11,111
	Net loan closing	1,35,55,55,556	1,35,55,55,556	1,08,44,44,444	81,33,33,333	54,22,22,222	27,11,11,111
	Carriage out loan	1,69,11,11,111	1,38,95,08,000	1,22,00,00,000	94,68,80,000	87,77,77,778	43,89,08,889
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	12,22,77,778	11,11,66,666	10,00,00,000	7,78,00,000	6,66,77,778	3,33,33,333
19	<b>State Bank of India - VI (Draws 7 and 18 - cumulative repayment from 31.03.2021)</b>						
	Draws (Drawn) opening	1,30,00,00,000	1,30,00,00,000	1,30,00,00,000	1,30,00,00,000	1,30,00,00,000	1,30,00,00,000
	Cumulative repayment of draw (All years to 31.03.2021)	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000
	Net Loan opening	1,30,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	1,30,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000	50,00,00,000
	Repayment of loan during the year	30,00,00,000	-	10,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000
	Net loan closing	1,00,00,00,000	50,00,00,000	40,00,00,000	40,00,00,000	40,00,00,000	40,00,00,000
	Carriage out loan	80,00,00,000	48,00,00,000	30,00,00,000	20,00,00,000	15,00,00,000	10,00,00,000
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	8,00,00,000	4,00,00,000	3,20,00,000	3,20,00,000	3,20,00,000	3,20,00,000
20	<b>State Bank of India - X (Draws 01 and 07 - Repayment commences from 1.10.2024)</b>						
	Draws (Drawn) opening	2,80,00,00,000	2,80,00,00,000	2,80,00,00,000	2,80,00,00,000	2,80,00,00,000	2,80,00,00,000
	Cumulative repayment of draw (All years to 31.03.2024)	-	31,33,33,333	31,33,33,333	31,33,33,333	31,33,33,333	31,33,33,333
	Net Loan opening	2,80,00,00,000	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	2,80,00,00,000	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667	2,48,66,66,667
	Repayment of loan during the year	31,33,33,333	-	31,33,33,333	31,33,33,333	31,33,33,333	31,33,33,333
	Net loan closing	2,48,66,66,667	2,48,66,66,667	2,17,33,33,333	1,86,00,00,000	1,54,66,66,667	1,23,33,33,333
	Carriage out loan	2,80,00,00,000	2,48,66,66,667	2,17,33,33,333	1,86,00,00,000	1,54,66,66,667	1,23,33,33,333
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	21,80,00,000	20,36,66,667	18,27,00,000	16,10,00,000	13,93,33,333	11,76,66,667
21	<b>State Bank of India - XI (Draws 2, 4, 6 and 8 - Repayment starts from 01.10.2024)</b>						
	Draws (Drawn) opening	2,31,00,00,000	2,31,00,00,000	2,31,00,00,000	2,31,00,00,000	2,31,00,00,000	2,31,00,00,000
	Cumulative repayment of draw (All years to 31.03.2024)	-	77,00,00,000	77,00,00,000	77,00,00,000	77,00,00,000	77,00,00,000
	Net Loan opening	2,31,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	2,31,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000	1,54,00,00,000
	Repayment of loan during the year	35,00,00,000	-	35,00,00,000	35,00,00,000	35,00,00,000	35,00,00,000
	Net loan closing	1,96,00,00,000	1,54,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Carriage out loan	1,80,00,00,000	1,54,00,00,000	1,41,00,00,000	1,25,00,00,000	1,09,00,00,000	94,00,00,000
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	15,68,00,000	12,62,00,000	9,72,00,000	8,47,00,000	7,36,00,000	6,36,00,000
22	<b>State Bank of India - XII (Draws 2, 3 and 6 - Repayment commences from 01.10.2025)</b>						
	Draws (Drawn) opening	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000
	Cumulative repayment of draw (All years to 31.03.2025)	-	-	-	1,40,00,00,000	2,80,00,00,000	4,20,00,00,000
	Net Loan opening	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	11,40,00,00,000	10,00,00,00,000	8,60,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	11,40,00,00,000	10,00,00,00,000	8,60,00,00,000
	Repayment of loan during the year	-	-	1,40,00,00,000	1,40,00,00,000	1,40,00,00,000	1,40,00,00,000
	Net loan closing	12,80,00,00,000	12,80,00,00,000	11,40,00,00,000	10,00,00,00,000	8,60,00,00,000	7,20,00,00,000
	Carriage out loan	12,80,00,00,000	12,80,00,00,000	12,80,00,00,000	10,00,00,00,000	8,60,00,00,000	7,20,00,00,000
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	1,05,76,00,000	1,05,76,00,000	88,00,00,000	68,16,00,000	48,00,00,000	28,00,00,000
23	<b>SBI (Draw 2 cumulative repayment from 16.03.2025)</b>						
	Draws (Drawn) opening	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000
	Cumulative repayment of draw (All years to 31.03.2025)	-	-	-	25,00,00,000	40,00,00,000	45,00,00,000
	Net Loan opening	80,00,00,000	80,00,00,000	80,00,00,000	55,00,00,000	40,00,00,000	35,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	80,00,00,000	80,00,00,000	80,00,00,000	55,00,00,000	40,00,00,000	35,00,00,000
	Repayment of loan during the year	-	-	25,00,00,000	25,00,00,000	25,00,00,000	25,00,00,000
	Net loan closing	80,00,00,000	80,00,00,000	55,00,00,000	30,00,00,000	15,00,00,000	10,00,00,000
	Carriage out loan	80,00,00,000	80,00,00,000	55,00,00,000	30,00,00,000	15,00,00,000	10,00,00,000
	Rate of interest on loan on annual basis	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on loan	6,56,00,000	6,56,00,000	4,50,00,000	2,40,00,000	1,25,00,000	70,00,000
24	<b>UCD Bank (Draw 2 - Repayment from 11.11.2025)</b>						
	Draws (Drawn) opening	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000
	Cumulative repayment of draw (All years to 31.03.2025)	-	-	-	-	5,00,00,000	11,00,00,000
	Net Loan opening	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	65,00,00,000	59,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	65,00,00,000	59,00,00,000
	Repayment of loan during the year	-	-	-	5,00,00,000	5,00,00,000	5,00,00,000
	Net loan closing	70,00,00,000	70,00,00,000	70,00,00,000	65,00,00,000	60,00,00,000	54,00,00,000
	Carriage out loan	70,00,00,000	70,00,00,000	70,00,00,000	65,00,00,000	60,00,00,000	54,00,00,000
	Rate of interest on loan on annual basis	7.7000%	7.7000%	7.7000%	7.7000%	7.7000%	7.7000%
	Interest on loan	5,39,00,000	5,39,00,000	5,39,00,000	5,00,00,000	4,65,00,000	4,26,00,000
1	<b>Bonds Series - 33</b>						
	Draws (Drawn) opening	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000
	Cumulative repayment of draw (All years to 31.03.2025)	-	-	-	-	80,00,00,000	80,00,00,000
	Net Loan opening	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	0,00,00,000	0,00,00,000
	Repayment decrease due to FORTV	-	-	-	-	-	-
	Repayment decrease due to ACF	-	-	-	-	-	-
	Total	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	0,00,00,000	0,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan closing	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	0,00,00,000	0,00,00,000
	Carriage out loan	80,00,00,000	80,00,00,000	80,00,00,000	80,00,00,000	0,00,00,000	0,00,00,000
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	-	-	-	-	-	-

Document certified by PRASHANT  
CHATURVEDI - prashant@npsc.co.in  
Digitally signed by PRASHANT  
CHATURVEDI  
Date: 2025.03.22 08:08:48  
Reason: AGM (Commercial)  
Location: NTPC Ltd



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
	Interest on loan	9,08,00,000	-	-	-	-	-
2	<b>Bonds Series - 54 (Repayment on 25/03/2025)</b>						
	Costs (Direct expenses)	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000
	Contingent liabilities of direct expenses	74,40,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000	1,24,00,00,000
	Net loan raising	49,60,00,000	-	-	-	-	-
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	49,60,00,000	-	-	-	-	-
	Repayment of loan during the year	49,60,00,000	-	-	-	-	-
	Net loan during	-	-	-	-	-	-
	Average net loan	49,60,00,000	-	-	-	-	-
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	2,11,33,000	-	-	-	-	-
3	<b>Bonds Series - 55</b>						
	Costs (Direct expenses)	75,00,00,000	75,00,00,000	75,00,00,000	75,00,00,000	75,00,00,000	75,00,00,000
	Contingent liabilities of direct expenses	-	-	-	75,00,00,000	75,00,00,000	75,00,00,000
	Net loan raising	75,00,00,000	75,00,00,000	75,00,00,000	75,00,00,000	-	-
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	75,00,00,000	75,00,00,000	75,00,00,000	75,00,00,000	-	-
	Repayment of loan during the year	-	-	-	75,00,00,000	-	-
	Net loan during	75,00,00,000	75,00,00,000	75,00,00,000	-	-	-
	Average net loan	75,00,00,000	75,00,00,000	75,00,00,000	37,50,00,000	-	-
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	0,00,00,000	0,00,00,000	0,00,00,000	3,00,00,000	-	-
4	<b>Bonds Series - 61 (Repayment on 27/05/2021)</b>						
	Costs (Direct expenses)	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Contingent liabilities of direct expenses	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000	70,00,00,000
	Net loan raising	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000	15,00,00,000
	Repayment of loan during the year	-	-	-	15,00,00,000	-	-
	Net loan during	15,00,00,000	15,00,00,000	15,00,00,000	-	-	-
	Average net loan	15,00,00,000	15,00,00,000	15,00,00,000	37,50,00,000	15,00,00,000	15,00,00,000
	Rate of interest on loan on annual basis	0.1300%	0.1300%	0.1300%	0.1300%	0.1300%	0.1300%
	Interest on loan	2,71,00,000	2,71,00,000	2,71,00,000	2,00,00,000	1,95,00,000	1,95,00,000
5	<b>Bonds Series - 62</b>						
	Costs (Direct expenses)	57,00,00,000	57,00,00,000	57,00,00,000	57,00,00,000	57,00,00,000	57,00,00,000
	Contingent liabilities of direct expenses	-	-	-	57,00,00,000	57,00,00,000	57,00,00,000
	Net loan raising	57,00,00,000	57,00,00,000	57,00,00,000	57,00,00,000	-	-
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	57,00,00,000	57,00,00,000	57,00,00,000	57,00,00,000	-	-
	Repayment of loan during the year	-	-	-	57,00,00,000	-	-
	Net loan during	57,00,00,000	57,00,00,000	57,00,00,000	-	-	-
	Average net loan	57,00,00,000	57,00,00,000	57,00,00,000	28,50,00,000	-	-
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	0,00,00,000	0,00,00,000	0,00,00,000	0,00,00,000	-	-
6	<b>Bonds Series - 63</b>						
	Costs (Direct expenses)	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000
	Contingent liabilities of direct expenses	-	-	-	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000
	Net loan raising	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	-	-
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	-	-
	Repayment of loan during the year	-	-	-	1,13,00,00,000	-	-
	Net loan during	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	-	-	-
	Average net loan	1,13,00,00,000	1,13,00,00,000	1,13,00,00,000	56,50,00,000	-	-
	Rate of interest on loan on annual basis	7.4000%	7.4000%	7.4000%	7.4000%	0.0000%	0.0000%
	Interest on loan	8,47,00,000	8,47,00,000	8,47,00,000	4,23,00,000	-	-
7	<b>Bonds Series - 64</b>						
	Costs (Direct expenses)	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000
	Contingent liabilities of direct expenses	-	-	-	-	-	-
	Net loan raising	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan during	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000
	Average net loan	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000	18,00,00,000
	Rate of interest on loan on annual basis	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on loan	1,35,00,000	1,35,00,000	1,35,00,000	1,35,00,000	1,35,00,000	1,35,00,000
8	<b>Bonds Series - 66</b>						
	Costs (Direct expenses)	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000
	Contingent liabilities of direct expenses	-	-	-	-	-	-
	Net loan raising	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan during	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000
	Average net loan	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000	3,23,00,00,000
	Rate of interest on loan on annual basis	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on loan	23,95,00,000	23,95,00,000	23,95,00,000	23,95,00,000	23,95,00,000	23,95,00,000
9	<b>Bonds Series - 67</b>						
	Costs (Direct expenses)	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000
	Contingent liabilities of direct expenses	-	-	-	-	-	-
	Net loan raising	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000
	Interest charges due to FORTV	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000
	Repayment of loan during the year	-	-	-	-	-	-
	Net loan during	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000
	Average net loan	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000	5,50,00,00,000
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	0,00,00,000	0,00,00,000	0,00,00,000	0,00,00,000	0,00,00,000	0,00,00,000
10	<b>Bonds Series - 68</b>						



S. No.	Particulars	2024-25	2023-24 (1.4.2023 to 30.4.2024)	2022-23 (1.4.2022 to 31.3.2023)	2021-22	2020-21	2019-20
	Costs (Direct expenses)	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Contingencies expenditure of about 5% per cent	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Net Loss remaining	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Amount set aside	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000	1,80,00,00,000
	Rate of interest on loan on current basis	7.5000%	7.5000%	7.5000%	7.5000%	7.5000%	7.5000%
	Interest on loan	11,02,50,000	11,02,50,000	11,02,50,000	11,02,50,000	11,02,50,000	11,02,50,000
11	<b>Bonds Series - 73</b>						
	Costs (Direct expenses)	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Contingencies expenditure of about 5% per cent	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Net Loss remaining	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Amount set aside	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000	85,00,00,000
	Rate of interest on loan on current basis	6.4000%	6.4000%	6.4000%	6.4000%	6.4000%	6.4000%
	Interest on loan	6,13,75,000	6,13,75,000	6,13,75,000	6,13,75,000	6,13,75,000	6,13,75,000
12	<b>Bonds Series - 74</b>						
	Costs (Direct expenses)	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Contingencies expenditure of about 5% per cent	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Net Loss remaining	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Amount set aside	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000	1,17,00,00,000
	Rate of interest on loan on current basis	6.0000%	6.0000%	6.0000%	6.0000%	6.0000%	6.0000%
	Interest on loan	8,07,50,000	8,07,50,000	8,07,50,000	8,07,50,000	8,07,50,000	8,07,50,000
13	<b>Bonds Series - 75</b>						
	Costs (Direct expenses)	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Contingencies expenditure of about 5% per cent	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Net Loss remaining	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Amount set aside	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000	1,19,00,00,000
	Rate of interest on loan on current basis	6.7000%	6.7000%	6.7000%	6.7000%	6.7000%	6.7000%
	Interest on loan	7,99,68,000	7,99,68,000	7,99,68,000	7,99,68,000	7,99,68,000	7,99,68,000
14	<b>Bonds Series - 76</b>						
	Costs (Direct expenses)	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Contingencies expenditure of about 5% per cent	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Net Loss remaining	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Amount set aside	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000	81,00,00,000
	Rate of interest on loan on current basis	6.7000%	6.7000%	6.7000%	6.7000%	6.7000%	6.7000%
	Interest on loan	4,12,57,000	4,12,57,000	4,12,57,000	4,12,57,000	4,12,57,000	4,12,57,000
15	<b>Bonds Series - 78</b>						
	Costs (Direct expenses)	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Contingencies expenditure of about 5% per cent	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Net Loss remaining	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Amount set aside	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000	39,17,00,000
	Rate of interest on loan on current basis	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on loan	2,92,59,000	2,92,59,000	2,92,59,000	2,92,59,000	2,92,59,000	2,92,59,000
16	<b>Bonds Series - 79</b>						
	Costs (Direct expenses)	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Contingencies expenditure of about 5% per cent	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Net Loss remaining	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Amount set aside	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000	44,00,000
	Rate of interest on loan on current basis	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on loan	3,28,800	3,28,800	3,28,800	3,28,800	3,28,800	3,28,800
1	<b>4.31% Euro Bonds 2024</b>						
	Costs (Direct expenses)	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Contingencies expenditure of about 5% per cent	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Net Loss remaining	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Reserve decrease due to PFRD	-	-	-	-	-	-
	Reserve decrease due to MTD	-	-	-	-	-	-
	Total	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Appropriation of Loss during the year	-	-	-	-	-	-
	Net Loss during	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Amount set aside	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894	32,10,82,894
	Rate of interest on loan on current basis	4.5277%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	74,28,378	-	-	-	-	-
2	<b>4.25% Euro Bonds 2025</b>						
	Costs (Direct expenses)	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343
	Contingencies expenditure of about 5% per cent	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343
	Net Loss remaining	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343	3,52,39,87,343

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Location: NTPC Ltd



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.4.2026 to 31.3.2027)	2026-27	2027-28	2028-29
	Interest charges due to FIDIC						
	Interest charges due to ACP						
	Total	8,82,36,87,348	8,82,36,87,348	8,82,36,87,348	-	-	-
	Represented by loan charges for year						
	Net loan charges	8,82,36,87,348	8,82,36,87,348	8,82,36,87,348	-	-	-
	Interest net loan	8,82,36,87,348	8,82,36,87,348	8,82,36,87,348	-	-	-
	Rate of interest on loan on annual basis	4.4800%	4.4800%	4.4800%	0.0000%	0.0000%	0.0000%
	Interest on loan	45,84,20,851	45,84,20,851	45,84,20,851	-	-	-
3	2.75% Fixed Rate Notes due 2027						
	Interest charges due to FIDIC	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831
	Interest charges due to ACP						
	Total	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831
	Represented by loan charges for year						
	Net loan charges	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831
	Interest net loan	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831	8,86,75,19,831
	Rate of interest on loan on annual basis	2.7500%	2.7500%	2.7500%	0.0000%	0.0000%	0.0000%
	Interest on loan	24,21,20,820	24,21,20,820	24,21,20,820	12,62,45,410	-	-
4	7.25% Fixed Rate Notes due 2023 (Cumulative Redemption at 50000000)						
	Interest charges due to FIDIC	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373
	Interest charges due to ACP						
	Total	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373
	Represented by loan charges for year						
	Net loan charges	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373
	Interest net loan	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373	1,82,53,28,373
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	-	-	-	-	-	-
5	10% Fixed Rate Notes due 2023						
	Interest charges due to FIDIC	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455
	Interest charges due to ACP						
	Total	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455
	Represented by loan charges for year						
	Net loan charges	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455
	Interest net loan	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455
	Rate of interest on loan on annual basis	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%
	Interest on loan	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455	1,81,50,78,455
6	10% Fixed Rate Notes due 2023						
	Interest charges due to FIDIC	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025
	Interest charges due to ACP						
	Total	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025
	Represented by loan charges for year						
	Net loan charges	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025
	Interest net loan	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025
	Rate of interest on loan on annual basis	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%
	Interest on loan	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025	83,43,85,025
7	4.75% Fixed Rate Notes due 2028						
	Interest charges due to FIDIC	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054
	Interest charges due to ACP						
	Total	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054
	Represented by loan charges for year						
	Net loan charges	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054
	Interest net loan	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054	4,54,81,81,054
	Rate of interest on loan on annual basis	4.7500%	4.7500%	4.7500%	4.7500%	4.7500%	4.7500%
	Interest on loan	21,64,87,019	21,64,87,019	21,64,87,019	21,64,87,019	21,64,87,019	21,64,87,019
8	10% Fixed Rate Notes due 2028						
	Interest charges due to FIDIC	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785
	Interest charges due to ACP						
	Total	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785
	Represented by loan charges for year						
	Net loan charges	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785
	Interest net loan	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785
	Rate of interest on loan on annual basis	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%
	Interest on loan	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785	1,34,11,47,785
9	10% Fixed Rate Notes due 2028						
	Interest charges due to FIDIC	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355
	Interest charges due to ACP						
	Total	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355
	Represented by loan charges for year						
	Net loan charges	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355
	Interest net loan	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355
	Rate of interest on loan on annual basis	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%	1.0000%
	Interest on loan	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355	1,17,38,48,355
10	1.75% Fixed Rate Notes due 2028						
	Interest charges due to FIDIC	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702
	Interest charges due to ACP						
	Total	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702	8,81,20,31,702



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
	Expenditure of loan during the year	2,81,20,21,002	-	-	-	-	-
	Net loan charge	-	-	-	-	-	-
	Average net loan	1,49,60,15,861	-	-	-	-	-
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	5,17,54,323	-	-	-	-	-
11	<b>APR Eqs. TMM-Run I</b>						
	Excess Thrust operating	87,88,85,921	87,88,85,921	87,88,85,921	87,88,85,921	87,88,85,921	87,88,85,921
	Contingent expenditure of plant all runs in	-	-	-	-	24,47,41,273	48,94,82,546
	Net loan operating	87,88,85,921	87,88,85,921	87,88,85,921	87,88,85,921	73,42,23,818	48,94,82,546
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	87,88,85,921	87,88,85,921	87,88,85,921	87,88,85,921	73,42,23,818	48,94,82,546
	Expenditure of loan during the year	-	-	-	24,47,41,273	48,94,82,546	24,47,41,273
	Net loan charge	87,88,85,921	87,88,85,921	87,88,85,921	73,42,23,818	48,94,82,546	24,47,41,273
	Average net loan	87,88,85,921	87,88,85,921	87,88,85,921	85,55,34,454	81,16,51,180	38,71,11,800
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	88,91,794	88,91,794	88,91,794	19,97,620	26,19,871	35,11,825
12	<b>APR Eqs. TMM-Run II</b>						
	Excess Thrust operating	81,82,83,814	81,82,83,814	81,82,83,814	81,82,83,814	81,82,83,814	81,82,83,814
	Contingent expenditure of plant all runs in	-	-	-	-	12,88,73,178	25,31,48,757
	Net loan operating	81,82,83,814	81,82,83,814	81,82,83,814	81,82,83,814	29,07,23,106	25,31,48,757
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	81,82,83,814	81,82,83,814	81,82,83,814	81,82,83,814	29,07,23,106	25,31,48,757
	Expenditure of loan during the year	-	-	-	12,88,73,178	25,31,48,757	12,88,73,178
	Net loan charge	81,82,83,814	81,82,83,814	81,82,83,814	37,65,31,135	25,01,48,557	12,88,73,178
	Average net loan	81,82,83,814	81,82,83,814	81,82,83,814	46,34,55,035	12,55,31,448	11,45,68,898
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	47,85,528	47,85,528	47,85,528	41,85,680	29,19,328	17,68,937
13	<b>APR Eqs. TMM-Run III</b>						
	Excess Thrust operating	80,12,88,939	80,12,88,939	80,12,88,939	80,12,88,939	80,12,88,939	80,12,88,939
	Contingent expenditure of plant all runs in	-	-	-	-	12,88,73,178	25,31,48,757
	Net loan operating	80,12,88,939	80,12,88,939	80,12,88,939	80,12,88,939	17,55,51,981	25,31,48,757
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	80,12,88,939	80,12,88,939	80,12,88,939	80,12,88,939	17,55,51,981	25,31,48,757
	Expenditure of loan during the year	-	-	-	12,88,73,178	25,31,48,757	12,88,73,178
	Net loan charge	80,12,88,939	80,12,88,939	80,12,88,939	31,28,81,081	25,08,24,454	12,88,73,178
	Average net loan	80,12,88,939	80,12,88,939	80,12,88,939	40,88,70,289	17,37,53,048	18,79,19,851
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	68,01,758	68,01,758	68,01,758	43,34,638	29,77,607	17,28,808
14	<b>APR Eqs. TMM-Run IV</b>						
	Excess Thrust operating	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000
	Contingent expenditure of plant all runs in	-	-	-	-	12,88,73,178	25,31,48,757
	Net loan operating	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	30,91,38,300	60,90,00,000
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	30,91,38,300	60,90,00,000
	Expenditure of loan during the year	-	-	-	12,88,73,178	25,31,48,757	12,88,73,178
	Net loan charge	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	40,81,38,060	40,88,24,454	30,30,48,000
	Average net loan	1,21,21,84,000	1,21,21,84,000	1,21,21,84,000	1,08,08,81,000	75,76,13,300	45,85,68,000
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	1,11,33,913	1,11,33,913	1,11,33,913	97,42,171	99,08,804	41,75,218
15	<b>APR Eqs. TMM-Run V</b>						
	Excess Thrust operating	72,78,78,294	72,78,78,294	72,78,78,294	72,78,78,294	72,78,78,294	72,78,78,294
	Contingent expenditure of plant all runs in	-	-	-	-	12,88,73,178	25,31,48,757
	Net loan operating	72,78,78,294	72,78,78,294	72,78,78,294	72,78,78,294	54,21,78,371	38,14,18,607
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	72,78,78,294	72,78,78,294	72,78,78,294	72,78,78,294	54,21,78,371	38,14,18,607
	Expenditure of loan during the year	-	-	-	12,88,73,178	25,31,48,757	12,88,73,178
	Net loan charge	72,78,78,294	72,78,78,294	72,78,78,294	54,21,80,071	54,14,18,607	38,17,18,321
	Average net loan	72,78,78,294	72,78,78,294	72,78,78,294	80,24,55,133	45,17,28,808	27,10,53,485
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	64,27,543	64,27,543	64,27,543	58,34,450	46,17,424	24,18,476
16	<b>APR Eqs. TMM-Run VI</b>						
	Excess Thrust operating	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219
	Contingent expenditure of plant all runs in	-	-	-	-	12,88,73,178	25,31,48,757
	Net loan operating	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,59,51,45,414	71,87,68,808
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,59,51,45,414	71,87,68,808
	Expenditure of loan during the year	-	-	-	12,88,73,178	25,31,48,757	12,88,73,178
	Net loan charge	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	4,06,51,45,414	70,87,68,808	38,50,81,895
	Average net loan	1,41,75,27,219	1,41,75,27,219	1,41,75,27,219	1,24,03,30,516	88,82,54,812	53,95,72,707
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	1,28,08,073	1,28,08,073	1,28,08,073	1,18,30,311	79,78,703	47,27,276
17	<b>Excess Loan II</b>						
	Excess Thrust operating	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921
	Contingent expenditure of plant all runs in	-	-	-	-	-	-
	Net loan operating	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921
	Expenditure of loan during the year	-	-	-	-	-	-
	Net loan charge	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921
	Average net loan	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921	1,84,32,48,921
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298
18	<b>Excess Loan III</b>						
	Excess Thrust operating	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982
	Contingent expenditure of plant all runs in	-	-	-	-	-	-
	Net loan operating	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982
	Interest charges due to TMM	-	-	-	-	-	-
	Interest charges due to A/C	-	-	-	-	-	-
	Total	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982
	Expenditure of loan during the year	-	-	-	-	-	-
	Net loan charge	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982
	Average net loan	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982	1,24,38,58,982
	Rate of interest on loan on annual basis	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298	8,32,01,298



S. No.	Particulars	2024-25	2025-26 (1.4.2025 to 30.4.2026)	2026-27 (1.5.2025 to 31.3.2026)	2026-27	2027-28	2028-29
	Interest on loans	8,29,81,898	8,29,81,898	8,29,81,898	8,29,81,898	8,29,81,898	1,14,08,776
19	<b>1000 Green Drivell (Repayment on 17/09/2025)</b>						
	Costs (Drill) opening	12,81,43,752	12,81,43,752	12,81,43,752	12,81,43,752	12,81,43,752	12,81,43,752
	Contingencies expenditure of drill, all years to	-	1,32,51,879	1,09,81,929	2,08,33,982	3,07,59,939	4,10,07,895
	Net loan opening	12,81,43,752	14,13,95,631	13,91,25,681	14,89,77,734	15,89,03,691	16,91,51,647
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	12,81,43,752	14,13,95,631	13,91,25,681	14,89,77,734	15,89,03,691	16,91,51,647
	Expenditure of loan during the year	1,02,81,879	1,02,81,879	1,02,81,879	1,02,81,879	1,02,81,879	1,02,81,879
	Net loan closing	11,78,61,873	13,11,13,752	12,88,37,802	13,86,95,855	14,86,21,812	15,88,69,768
	Average net loan	12,30,52,812	13,62,54,692	13,39,81,742	14,38,36,795	15,37,62,752	16,40,10,708
	Rate of interest on loan on annual basis	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%
	Interest on loans	13,41,362	14,70,323	14,76,325	15,12,283	15,80,811	16,64,324
20	<b>1000 Green Drivell (Repayment on 17/09/2025)</b>						
	Costs (Drill) opening	25,15,37,494	25,15,37,494	25,15,37,494	25,15,37,494	25,15,37,494	25,15,37,494
	Contingencies expenditure of drill, all years to	-	2,81,22,692	2,07,22,982	4,02,46,983	6,03,69,972	8,04,91,899
	Net loan opening	25,15,37,494	27,96,60,186	27,22,60,476	29,17,84,477	31,19,07,466	33,20,29,393
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	25,15,37,494	27,96,60,186	27,22,60,476	29,17,84,477	31,19,07,466	33,20,29,393
	Expenditure of loan during the year	2,01,32,899	2,01,32,899	2,01,32,899	2,01,32,899	2,01,32,899	2,01,32,899
	Net loan closing	23,14,04,595	25,95,27,287	25,21,27,577	27,16,51,578	29,17,74,567	31,18,96,494
	Average net loan	24,14,71,045	26,95,93,737	26,21,44,527	28,17,18,028	30,18,41,017	32,19,62,944
	Rate of interest on loan on annual basis	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%
	Interest on loans	25,32,329	29,07,899	28,33,398	30,28,937	32,24,247	34,19,898
21	<b>1000 Green Drivell (Repayment on 17/09/2025)</b>						
	Costs (Drill) opening	8,87,34,998	8,87,34,998	8,87,34,998	8,87,34,998	8,87,34,998	8,87,34,998
	Contingencies expenditure of drill, all years to	-	70,87,897	78,87,897	1,41,85,934	2,12,83,909	2,83,81,884
	Net loan opening	8,87,34,998	9,58,22,895	9,66,22,895	10,29,20,932	11,00,18,907	11,71,16,882
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	8,87,34,998	9,58,22,895	9,66,22,895	10,29,20,932	11,00,18,907	11,71,16,882
	Expenditure of loan during the year	70,87,897	70,87,897	70,87,897	70,87,897	70,87,897	70,87,897
	Net loan closing	8,16,47,101	8,87,34,998	8,95,35,000	9,58,33,035	10,29,31,010	11,00,28,985
	Average net loan	8,51,91,049	8,95,28,947	8,95,79,948	9,58,26,984	10,29,24,964	11,00,22,935
	Rate of interest on loan on annual basis	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%
	Interest on loans	9,28,998	9,66,897	9,81,129	10,33,149	10,91,179	11,50,200
22	<b>1000 Green Drivell (Repayment on 17/09/2025)</b>						
	Costs (Drill) opening	6,20,43,493	6,20,43,493	6,20,43,493	6,20,43,493	6,20,43,493	6,20,43,493
	Contingencies expenditure of drill, all years to	-	49,83,479	48,83,479	98,26,959	1,48,80,439	1,98,73,919
	Net loan opening	6,20,43,493	6,70,26,972	6,69,26,972	7,18,70,452	7,69,23,932	8,19,17,412
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	6,20,43,493	6,70,26,972	6,69,26,972	7,18,70,452	7,69,23,932	8,19,17,412
	Expenditure of loan during the year	49,83,479	49,83,479	49,83,479	49,83,479	49,83,479	49,83,479
	Net loan closing	5,70,60,014	6,20,43,493	6,19,43,493	6,68,86,973	7,19,40,453	7,69,33,933
	Average net loan	5,95,51,754	6,45,34,493	6,44,34,493	6,93,79,213	7,44,31,703	7,94,24,183
	Rate of interest on loan on annual basis	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%	1.0801%
	Interest on loans	6,48,269	6,97,329	6,96,179	7,45,289	7,94,349	8,43,409
23	<b>1000 750 M-Box Drivell</b>						
	Costs (Drill) opening	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873
	Contingencies expenditure of drill, all years to	-	-	-	-	-	-
	Net loan opening	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873	1,81,44,79,873
	Expenditure of loan during the year	27,34,99,954	27,34,99,954	27,34,99,954	27,34,99,954	27,34,99,954	27,34,99,954
	Net loan closing	1,54,09,80,919	1,54,09,80,919	1,54,09,80,919	1,54,09,80,919	1,54,09,80,919	1,54,09,80,919
	Average net loan	1,67,77,30,396	1,67,77,30,396	1,67,77,30,396	1,67,77,30,396	1,67,77,30,396	1,67,77,30,396
	Rate of interest on loan on annual basis	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%
	Interest on loans	12,58,08,377	12,58,08,377	12,58,08,377	12,58,08,377	12,58,08,377	12,58,08,377
24	<b>1000 750 M-Box Drivell</b>						
	Costs (Drill) opening	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938
	Contingencies expenditure of drill, all years to	-	-	-	-	-	-
	Net loan opening	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938	1,34,73,68,938
	Expenditure of loan during the year	19,24,80,929	19,24,80,929	19,24,80,929	19,24,80,929	19,24,80,929	19,24,80,929
	Net loan closing	1,15,48,88,009	1,15,48,88,009	1,15,48,88,009	1,15,48,88,009	1,15,48,88,009	1,15,48,88,009
	Average net loan	1,25,11,29,473	1,25,11,29,473	1,25,11,29,473	1,25,11,29,473	1,25,11,29,473	1,25,11,29,473
	Rate of interest on loan on annual basis	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%
	Interest on loans	9,12,11,018	9,12,11,018	9,12,11,018	9,12,11,018	9,12,11,018	9,12,11,018
25	<b>1000 750 M-Box Drivell</b>						
	Costs (Drill) opening	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229
	Contingencies expenditure of drill, all years to	-	-	-	-	-	-
	Net loan opening	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229	82,18,88,229
	Expenditure of loan during the year	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318
	Net loan closing	69,02,79,911	69,02,79,911	69,02,79,911	69,02,79,911	69,02,79,911	69,02,79,911
	Average net loan	75,60,84,070	75,60,84,070	75,60,84,070	75,60,84,070	75,60,84,070	75,60,84,070
	Rate of interest on loan on annual basis	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%
	Interest on loans	5,24,08,999	5,24,08,999	5,24,08,999	5,24,08,999	5,24,08,999	5,24,08,999
26	<b>1000 750 M-Box Drivell</b>						
	Costs (Drill) opening	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713
	Contingencies expenditure of drill, all years to	-	-	-	-	-	-
	Net loan opening	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713
	Interest decrease due to FDRV	-	-	-	-	-	-
	Interest decrease due to A/C	-	-	-	-	-	-
	Total	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713	84,88,85,713
	Expenditure of loan during the year	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318	13,16,08,318
	Net loan closing	71,72,77,395	71,72,77,395	71,72,77,395	71,72,77,395	71,72,77,395	71,72,77,395
	Average net loan	78,30,81,554	78,30,81,554	78,30,81,554	78,30,81,554	78,30,81,554	78,30,81,554
	Rate of interest on loan on annual basis	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%	6.7882%
	Interest on loans	5,08,35,611	5,08,35,611	5,08,35,611	5,08,35,611	5,08,35,611	5,08,35,611



S. No.	Particulars	2024-25	2023-24 (1.4.2023 to 30.4.2024)	2022-23 (1.4.2022 to 31.3.2023)	2021-22	2020-21	2019-20
27	<b>URD 780 M.Watt Diesel V</b>						
	Cost (Basis opening)	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192
	Repayment of loan during the year						
	Net loss closing	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192
	Carriage out loan	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192	1,26,24,41,192
	Rate of interest on loan on annual basis	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%
	Interest on loan	8,54,60,744	8,54,60,744	8,54,60,744	8,54,60,744	8,54,60,744	8,54,60,744
28	<b>URD 780 M.Watt Diesel VI</b>						
	Cost (Basis opening)	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317
	Repayment of loan during the year						
	Net loss closing	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317
	Carriage out loan	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317	85,14,00,317
	Rate of interest on loan on annual basis	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%
	Interest on loan	5,75,38,224	5,75,38,224	5,75,38,224	5,75,38,224	5,75,38,224	5,75,38,224
29	<b>APR Exp. 3480 M.Watt Diesel I</b>						
	Cost (Basis opening)	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792
	Repayment of loan during the year						
	Net loss closing	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792
	Carriage out loan	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792	35,01,35,792
	Rate of interest on loan on annual basis	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%
	Interest on loan	43,05,295	43,05,295	43,05,295	43,05,295	43,05,295	43,05,295
30	<b>APR Exp. 3480 M.Watt Diesel II</b>						
	Cost (Basis opening)	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889
	Repayment of loan during the year						
	Net loss closing	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889
	Carriage out loan	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889	15,11,24,889
	Rate of interest on loan on annual basis	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%
	Interest on loan	23,25,121	23,25,121	23,25,121	23,25,121	23,25,121	23,25,121
31	<b>APR Exp. 3480 M.Watt Diesel III</b>						
	Cost (Basis opening)	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599
	Repayment of loan during the year						
	Net loss closing	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599
	Carriage out loan	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599	50,22,31,599
	Rate of interest on loan on annual basis	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%	1.2100%
	Interest on loan	61,34,625	61,34,625	61,34,625	61,34,625	61,34,625	61,34,625
32	<b>APR Exp. 3480 M.Watt Diesel IV</b>						
	Cost (Basis opening)	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578
	Cumulative expenditure of fixed assets up to						
	Net Loss opening	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578
	Increase/decrease due to FERTV						
	Increase/decrease due to ACB						
	Total	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578
	Repayment of loan during the year						
	Net loss closing	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578
	Carriage out loan	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578	23,32,72,578
	Rate of interest on loan on annual basis	1.2200%	1.2200%	1.2200%	1.2200%	1.2200%	1.2200%
	Interest on loan	28,41,087	28,41,087	28,41,087	28,41,087	28,41,087	28,41,087
	<b>Grand Total opening</b>	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267
	<b>Cumulative expenditure of fixed assets up to</b>						
	<b>Net Loss opening</b>	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267
	<b>Increase/decrease due to FERTV</b>						
	<b>Increase/decrease due to ACB</b>						
	<b>Total</b>	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267
	<b>Repayment of loan during the year</b>						
	<b>Net loss closing</b>	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267
	<b>Carriage out loan</b>	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267	1,11,07,28,48,267
	<b>Rate of interest on loan on annual basis</b>	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%	6.7500%
	<b>Interest on loan</b>	8,21,38,47,267	8,21,38,47,267	8,21,38,47,267	8,21,38,47,267	8,21,38,47,267	8,21,38,47,267



Company	NTPC Limited
Name of the generating Station	North Karanpura Thermal Power-STAGE 01
Month	23-24

		Apr-23		May-23	Jun-23
SL	Particulars	Unit	COAL-DOMESTIC	COAL-DOMESTIC	COAL-DOMESTIC
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock of coal	MT	65079.64	1,02,211.49	2,06,636.01
2	Value of Stock	Rs.	13,60,19,079.68	20,96,96,394.05	42,62,86,256.65
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity of Coal /Lignite supplied by Coal / Lignite	MT	3,40,528.30	3,77,022.57	3,03,106.05
3.01	- Qty Received (Pit Head)	MT	3,40,528.30	3,77,022.57	3,03,106.05
3.02	- Qty Received (Non Pit Head)	MT	0.00	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	340528.30	377022.57	303106.05
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	681.06	754.05	606.21
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00
6.02	- Normative Loss (Non Pit Head)	MT	0.00	0.00	0.00
7	Non Coal / Lignite supplied (5 - 6)	MT	339847.24	376268.52	302499.84
<b>C)</b>	<b>PRICE</b>				
8	Amount charged by the Coal / Lignite Company	Rs.	63,33,68,065.28	70,00,12,062.20	58,33,96,157.59
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	29,39,881.12	32,54,946.90	25,15,803.51
11	Total Amount charged (8 +9+10)	Rs.	636307946.40	703267009.10	586012961.40
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation charges by Rail / Ship / Road Transport	Rs.	5,64,18,232.05	6,46,78,888.61	5,10,98,378.89
13	Adjustment (+/-) in amount charged by railways / transport	Rs.	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	56418232.05	64678888.61	51098378.89
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	694726178.45	767945897.71	638011340.29
<b>E)</b>					
18	Landed Cost of Coal/Lignite ( 2+17 ) / (1+7)	Rs./MT	2051.59	2043.22	2043.10
19	Blending Ratio (Domestic/Imported)	%	100.00	100.00	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	2051.59	2043.22	2043.10
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	2051.59	2043.22	2043.10
<b>F)</b>	<b>QUALITY</b>				
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	3949	3848	3854
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	3948	3866	3733
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0
24	GCV of imported coal supplied as per bill coal company	kCal/Kg	0	0	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3948	3884	3795
25.1	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3948	3884	3795
26	GCV of Domestic Coal of the opening stock as received at Station	kCal/Kg	3417	3403	3625
27	GCV of domestic coal supplied as received at station	kCal/Kg	3400	3685	3638
28	GCV of Imported coal of opening stock as received at station	kCal/Kg	0	0	0
29	GCV of Imported Coal supplied as received at Station	kCal/Kg	0	0	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3,403.00	3,625.00	3,633.00
30.1	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3,403.00	3,625.00	3,633.00

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Company	NTPC Limited
Name of the generating Station	North Karanpura T
Month	23-24

			Jul-23	Aug-23	Sep-23
SL	Particulars	Unit	COAL-DOMESTIC	COAL-DOMESTIC	COAL-DOMESTIC
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock of coal	MT	2,39,961.41	2,62,427.03	2,56,840.60
2	Value of Stock	Rs.	49,35,05,677.56	53,36,29,180.63	52,63,89,700.41
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity of Coal /Lignite supplied by Coal / Lignite	MT	2,82,850.32	2,78,552.87	2,52,900.60
3.01	- Qty Received (Pit Head)	MT	2,82,850.32	2,78,552.87	2,52,900.60
3.02	- Qty Received (Non Pit Head)	MT	0.00	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	282850.32	278552.87	252900.60
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	585.70	557.11	505.60
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00
6.02	- Normative Loss (Non Pit Head)	MT	0.00	0.00	0.00
7	Non Coal / Lignite supplied (5 - 6)	MT	282264.62	277995.76	252394.60
<b>C)</b>	<b>PRICE</b>				
8	Amount charged by the Coal / Lignite Company	Rs.	54,80,00,452.97	52,23,54,391.31	47,47,81,292.93
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	0.00	61879.72	0.00
11	Total Amount charged (8 +9+10)	Rs.	548000452.97	523416271.03	474781292.93
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation charges by Rail / Ship / Road Transport	Rs.	4,07,42,471.62	4,30,02,309.14	3,16,37,564.29
13	Adjustment (+/-) in amount charged by railways / transport	Rs.	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	40742471.62	43002309.14	31637564.29
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	588742924.59	565418580.17	506398857.22
<b>E)</b>					
18	Landed Cost of Coal/Lignite ( 2+17 ) / (1+7)	Rs./MT	2033.44	2033.68	2020.20
19	Blending Ratio (Domestic/Imported)	%	100.00	100.00	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	2033.44	2033.68	2020.20
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	2033.44	2033.68	2020.20
<b>F)</b>	<b>QUALITY</b>				
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	3795	3889	3910
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	3967	3931	3905
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0
24	GCV of imported coal supplied as per bill coal company	kCal/Kg	0	0	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3889	3910	3908
25.1	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3889	3910	3908
26	GCV of Domestic Coal of the opening stock as received at Station	kCal/Kg	3633	3591	3577
27	GCV of domestic coal supplied as received at station	kCal/Kg	3558	3563	3528
28	GCV of Imported coal of opening stock as received at station	kCal/Kg	0	0	0
29	GCV of Imported Coal supplied as received at Station	kCal/Kg	0	0	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3,591.00	3,577.00	3,457.00
30.1	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3,591.00	3,577.00	3,457.00

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Company		NTPC Limited			
Name of the generating Station		North Karanpura T			
Month		23-24			
		Oct-23	Nov-23	Dec-23	
SL	Particulars	Unit	COAL-DOMESTIC	COAL-DOMESTIC	COAL-DOMESTIC
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock of coal	MT	2,04,224.10	2,08,315.98	3,03,851.15
2	Value of Stock	Rs.	41,25,73,680.98	42,64,30,232.53	62,16,46,407.98
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity of Coal /Lignite supplied by Coal / Lignite	MT	3,11,425.43	4,26,920.02	2,68,724.52
3.01	- Qty Received (Pit Head)	MT	3,11,425.43	4,26,920.02	2,68,724.52
3.02	- Qty Received (Non Pit Head)	MT	0.00	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	311425.43	426920.02	268724.52
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	622.85	853.84	537.45
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00
6.02	- Normative Loss (Non Pit Head)	MT	0.00	0.00	0.00
7	Non Coal / Lignite supplied (5 - 6)	MT	310802.58	426066.18	268187.07
<b>C)</b>	<b>PRICE</b>				
8	Amount charged by the Coal / Lignite Company	Rs.	59,03,51,572.88	80,52,79,710.75	51,22,51,295.27
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	48,48,078.58	47,72,941.03	47,03,349.59
11	Total Amount charged (8 +9+10)	Rs.	59519961.26	810052651.78	516954644.86
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation charges by Rail / Ship / Road Transport	Rs.	4,65,04,645.12	6,13,94,003.31	3,92,42,757.05
13	Adjustment (+/-) in amount charged by railways / transport	Rs.	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	46504645.12	61394003.31	39242757.05
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	641704296.38	871446655.09	556197401.91
<b>E)</b>					
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	2047.04	2045.89	2059.03
19	Blending Ratio (Domestic/Imported)	%	100.00	100.00	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	2047.04	2045.89	2059.03
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	2047.04	2045.89	2059.03
<b>F)</b>	<b>QUALITY</b>				
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	3908	3978	4043
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	4026	4076	3963
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0
24	GCV of imported coal supplied as per bill coal company	kCal/Kg	0	0	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3978	4043	4005
25.1	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3978	4043	4005
26	GCV of Domestic Coal of the opening stock as received at Station	kCal/Kg	3457	3387	3320
27	GCV of domestic coal supplied as received at station	kCal/Kg	3339	3285	3204
28	GCV of Imported coal of opening stock as received at station	kCal/Kg	0	0	0
29	GCV of Imported Coal supplied as received at Station	kCal/Kg	0	0	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3,387.00	3,320.00	3,308.00
30.1	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3,387.00	3,320.00	3,308.00

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Company		NTPC Limited			
Name of the generating Station		North Karanpura T			
Month		23-24			
		Jan-24	Feb-24	Mar-24	
SL	Particulars	Unit	COAL-DOMESTIC	COAL-DOMESTIC	COAL-DOMESTIC
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock of coal	MT	246933.22	138652.17	221824.54
2	Value of Stock	Rs.	508422298.81	275045638.97	446856425.51
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity of Coal /Lignite supplied by Coal / Lignite	MT	281365.88	481415.20	501035.50
3.01	- Qty Received (Pit Head)	MT	281365.88	481415.20	501035.50
3.02	- Qty Received (Non Pit Head)	MT	0.00	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	281365.88	481415.20	501035.50
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	962.73	822.83	1002.07
6.01	- Normative Loss (Pit Head)	MT	962.73	822.83	1002.07
6.02	- Normative Loss (Non Pit Head)	MT	0.00	0.00	0.00
7	Non Coal / Lignite supplied (5 - 6)	MT	280402.95	480492.37	500033.43
<b>C)</b>	<b>PRICE</b>				
8	Amount charged by the Coal / Lignite Company	Rs.	520048290.83	841593384.00	939133311.00
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	2678186.33	3649814.27	3913121.34
11	Total Amount charged (8 +9+10)	Rs.	522727477.16	845243198.27	943046432.34
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation charges by Rail / Ship / Road Transport	Rs.	15706450.70	86663034.35	104950402.11
13	Adjustment (+/-) in amount charged by railways / transport	Rs.	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	15706450.70	86663034.35	104950402.11
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	538433927.86	931906232.62	1047998834.45
<b>E)</b>					
18	Landed Cost of Coal/Lignite ( 2+17 ) / (1+7)	Rs./MT	1983.71	2014.46	2070.84
19	Blending Ratio (Domestic/Imported)	%	100.00	100.00	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	1983.71	2014.46	2070.84
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	1983.71	2014.46	2070.84
<b>F)</b>	<b>QUALITY</b>				
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	4006	3883	3864
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	3964	3828	3904
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0
24	GCV of imported coal supplied as per bill coal company	kCal/Kg	0	0	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3983	3864	3892
25.1	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3983	3864	3892
26	GCV of Domestic Coal of the opening stock as received at Station	kCal/Kg	3308	3289	3314
27	GCV of domestic coal supplied as received at station	kCal/Kg	3273	3321	3476
28	GCV of Imported coal of opening stock as received at station	kCal/Kg	0	0	0
29	GCV of Imported Coal supplied as received at Station	kCal/Kg	0	0	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3,289.00	3314	3426
30.1	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3,289.00	3314	3426

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Company		NTPC Limited														Form-15A	
Name of the generating Station		North Karanpura Thermal Power Station															
Month		2024															
S. No.	Month	U	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	
		M	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	LDG	
A) OPENING QUANTITY																	
1	Opening Stock of Oil	0%	3973.43	4452.86	4008.68	4448.88	5032.90	5278.98	5091.94	4008.32	3561.47	3631.08	4188.07	4342.87	4342.87	4342.87	
2	Value of Opening Stock	0%	45755223.23	47800091.05	39687071.89	179729009.15	474511258.75	441963750.83	42940444.39	417838017.85	43364536.54	31102883.22	448191787.54	43529023.81	43529023.81	43529023.81	
B) QUANTITY																	
3	Quantity of Secondary Fuel supplied by Secondary Fuel Company	0%	183.97	0.00	530.75	3854.95	1131.51	0.00	485.57	8573.59	1835.31	3853.19	3048.79	882.59	882.59	882.59	
4	Adjustment (+) in quantity supplied by	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Secondary Fuel Supplied by Secondary	0%	165.61	0.00	530.75	3854.95	1131.51	0.00	485.57	8573.59	1835.31	3853.19	3048.79	882.59	882.59	882.59	
6	Horizontal Transit & Handling losses (for	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	Net Secondary Fuel / supplied (B-6)	0%	165.61	0.00	530.75	3854.95	1131.51	0.00	485.57	8573.59	1835.31	3853.19	3048.79	882.59	882.59	882.59	
C) FINE																	
8	Amount Charged By the Secondary Fuel	0%	8747055.43	0.00	4054036.20	140662164.04	96310385.51	0.00	48206644.80	278095431.56	148214488.47	223233391.82	464231346.00	30952400.50	30952400.50	30952400.50	
9	Adjustment (+) in amount charged by	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Handling, Storing & such other similar	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	Total Amount Charged (C-8+C-9+C-10)	0%	8747055.43	0.00	4054036.20	140662164.04	96310385.51	0.00	48206644.80	278095431.56	148214488.47	223233391.82	464231346.00	30952400.50	30952400.50	30952400.50	
D) TRANSPORTATION																	
12	Transportation charges by Rail (D-12a)/Road	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	Adjustment (+) in amount charged by	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	Demurrage charges (if any)	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	Cost of diesel in transporting Secondary	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	Total Transportation Charges (D-12)	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	Total amount charged (for Secondary Fuel) supplied including transportation (D-11+D-16)	0%	8747055.43	0.00	4054036.20	140662164.04	96310385.51	0.00	48206644.80	278095431.56	148214488.47	223233391.82	464231346.00	30952400.50	30952400.50	30952400.50	
18	Unladen cost of Secondary Fuel (D-17) /	0%	80897.00	88781.07	85568.20	83678.80	88735.95	83773.79	84554.70	83702.78	83386.85	80882.13	83482.80	81152.78	81152.78	81152.78	
19	Handling & other	0%	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
20	Weighted Average Cost of Secondary	0%	80898.00	88782.07	85569.20	83680.80	88736.95	83774.79	84555.70	83703.78	83387.85	80883.13	83483.80	81153.78	81153.78	81153.78	
E) QUALITY																	
21	GVV of Domestic Secondary Fuel of the opening Secondary Fuel stock (as per bill)	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
22	GVV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
23	GVV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
24	GVV of Imported Secondary Fuel supplied	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
25	Weighted average GVV of Secondary	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
26	GVV of Domestic Secondary Fuel of the	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	GVV of Domestic Secondary Fuel supplied	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	GVV of Imported Secondary Fuel of	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	GVV of Imported Secondary Fuel of	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	Weighted average GVV of Secondary	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Break-up of Capital Cost for New Coal/Lignite based projects													
Name of the Project		NTPC Limited											
Name of the Generating Station		March Karangpur Super Thermal Power Project (3 x 660 MW)											
Sl. No. (1)	Break Down (2)	As per Investment Appraisal	Actual Capital Expenditure on COD for Unit#1 (Gross Basis)	Liabilities/Provisions Unit#1 (Included in col 4)	IND-AS Adjustment	Actual Capital Expenditure on COD for Unit#1 (Cash Basis)	Actual Capital Expenditure on COD for Unit#2 (Gross Basis)	Liabilities/Provisions Unit#2 (Included in col 8)	IND-AS Adjustment	Actual Capital Expenditure on COD for Unit#2 (Cash Basis)	Projected Amount on Anticipated COD at Unit#1 (Gross Basis)	Liabilities/Provisions Unit#1 (Included in col 11)	Projected Capital Expenditure on Anticipated COD at Unit#2 (Gross Basis)
1	Cost of Land & Site Development	2	3	4	5	6	7	8	9	10	11	12	13
1.1	Land-Lease	2,20,274.10	35,975.31	1,11,846.29	66,547.39	41,182.92	35,975.31	3,08,762.30	(66,405.60)	64,135.60	2,38,774.18	3,08,762.30	1,11,846.29
1.2	Land -Free field		40,506.51				40,506.51						
1.3	Preliminary Investigation, Site Levelling & Development, Enabling works	7,645.07									7,645.07		7,645.07
	Total Land & Site Development	2,27,919.17	86,481.82	1,11,846.29	66,547.39	41,182.92	86,481.82	3,08,762.30	(66,405.60)	64,135.60	2,39,919.17	3,08,762.30	1,11,846.29
2	EPC	8,17,580.20	4,49,795.26	53,971.67	6,426.57	4,02,250.18	7,56,251.82	84,146.20	(2,297.78)	6,74,383.40	8,07,580.38	24,346.20	8,53,424.08
3	Arch Dyke	13,315.60	5,834.29	278.00		5,560.28	9,649.73	377.50		9,272.44	13,315.60	377.50	13,315.60
4	Permanent Township Package	67,109.90	15,110.55	35.60		15,103.95	17,351.91	417.61		16,884.50	47,190.08	417.61	46,782.48
5	Storage & Intake water pump House Package		11,428.84	71.83		11,295.01	11,428.84	244.79		11,733.42	11,428.84	244.79	11,733.42
6	Raw Water Reservoir	54,297.30	29,563.66	2,205.02		27,378.64	56,619.10	1,822.84		68,796.66	56,619.10	1,822.84	68,796.66
7	Raw Water Pump House & make up water system package	6,100.00	3,861.48			3,861.48	3,923.79	274.63		3,653.16	4,380.68		4,380.68
8	Flue Gas Desulfurization System	3,02,284.00											
10	Cool Handling Plant (External)	49,823.30			0.55	0.55							
11	Computer & Satellite	3,190.20					156.34	4.55		251.88	1,140.18	50.00	1,090.18
12	Construction Power	2,000.00	2,429.80	125.34		2,303.96	2,429.80	24.29		2,405.51	5,428.38		5,428.38
	Total Plant & Equipment including taxes & Duties (Included in respective packages)	11,11,990.50	5,17,977.91	56,695.97	6,427.11	4,67,714.05	8,52,155.06	87,211.67	(2,297.78)	7,67,241.17	30,18,483.17	98,918.80	9,35,925.08
13	Initial Spares Included with Plant & machinery packages	Respective packages											
14	Pre-Commissioning Expenses												
14.1	Erection Testing and commissioning	5,847.00	10,852.71			10,852.71	21,073.55			21,073.55	14,084.75		14,084.75
14.2	Site supervision	Included in 5.1											
14.3	Operator's Training												
14.4	Construction Insurance												
14.5	Start up fuel	Included in 5.1	0.00										

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Break-up of Capital Cost for New Coal/Lignite based projects										Part B			
Name of the Project		NTPC Limited								Amount in Lacs			
Name of the Generating Station		North Baramulla Super Thermal Power Project (3 x 660 MW)											
Sr. No. (1)	Break Down (2)	As per Investment Appraisal	Actual Capital Expenditure on COD for Unit#1 (Gross Block)	Liabilities/Provisions Unit#1 (Included in col 4)	IND-AS Adjustment	Actual Capital Expenditure on COD for Unit#1 (Cash Basis)	Actual Capital Expenditure on COD for Unit#2 (Gross Block)	Liabilities/Provisions Unit#2 (Included in col 8)	IND-AS Adjustment	Actual Capital Expenditure on COD for Unit#2 (Cash Basis)	Projected Amount on Anticipated COD at Unit#1 (Gross Block)	Liabilities/Provisions Unit#1 (Included in col 11)	Projected Capital Expenditure as on Anticipated COD at Unit#1 (Gross Block) (Cash Basis)
1	Total Pre-Commissioning Expenses	5,847.03	10,852.71	-	-	10,852.71	21,873.55	-	-	21,873.55	34,964.75	-	34,964.75
1.5	Overheads												
15.1	Establishment	70,190.30	50,587.92	-	-	50,587.92	87,103.95	-	-	87,103.95	87,120.09	-	87,120.09
15.2	Design & Engineering	Included in 15.1	-	-	-	-	-	-	-	-	-	-	-
15.3	Audit & Accounts	Included in 15.2	-	-	-	-	-	-	-	-	-	-	-
15.4	Contingency	Included in 15.1	-	-	-	-	-	-	-	-	-	-	-
15.5	Other Assets-MIDA	Included in 15.1	-	-	-	-	-	-	-	-	-	-	-
	Total Overheads	70,190.30	56,857.38	387.32	347.98	56,819.04	94,335.93	305.81	(333.23)	94,669.16	84,857.67	205.81	85,063.48
1.6	Total Capital Cost excluding IDC & FC	14,15,946.97	6,72,169.82	1,68,924.58	73,322.48	5,76,567.71	10,54,061.36	1,96,179.78	(49,036.09)	9,26,917.66	21,74,798.76	1,40,328.11	21,74,871.38
1.7	IDC, FC, FERV, Hedging Cost & WCM												
17.1	Interest During Construction (IDC)	2,63,636.50	1,43,525.97	-	-	1,43,525.97	2,72,580.69	-	-	2,72,580.69	2,88,190.67	-	2,88,190.67
17.2	Financing Charges (FC)	Included in 17.1	(101.75)	-	-	(101.75)	(1,798.44)	-	-	(1,798.44)	(2,798.44)	-	(2,798.44)
17.3	Foreign Exchange Rate Variation (FERV)		3,507.74	-	-	3,507.74	5,486.86	-	-	5,486.86	5,486.86	-	5,486.86
17.4	Hedging Cost		-	-	-	-	-	-	-	-	-	-	-
17.5	Working Capital Margin	23,617.50	-	-	-	-	-	-	-	-	-	-	-
	Total of IDC, FC, FERV, Hedging Cost	2,86,254.00	1,46,911.96	-	-	1,46,911.96	2,76,269.12	-	-	2,76,269.12	2,85,878.10	-	2,85,878.10
1.8	Capital cost including IDC, FC, FERV, Hedging Cost & WCM	17,04,300.97	8,19,081.78	1,68,924.58	73,322.48	7,33,479.68	13,30,330.47	1,96,179.78	(49,036.09)	12,81,294.38	24,60,676.86	1,40,328.11	24,60,799.18

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Name of the Petitioner  
Name of the Generating StationNTPC Ltd  
North Karanpura Super Thermal Power Project**Statement of Capital cost**

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	As on 31.03.2024		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	1403721.685	194117.91	1209603.775
	b) Amount of IDC in A(a) above	273767.8312	0	273767.8312
	c) Amount of FC in A(a) above	0		0
	d) Amount of FERV in A(a) above	5644.669491		5644.669491
	e) Amount of Hedging Cost in A(a) above	0		0
	f) Amount of IEDC in A(a) above	87103.94576		87103.94576
B	a) Addition in Gross Block Amount during the period (Direct purchases)	To be submitted at the time of TRUE UP		
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

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**NTPC Ltd**  
**North Karanpura Super Thermal Power Project**

### Statement of Capital Works in Progress

(Amount in Rs. Lakhs)

S. No.	Particulars	As on 31.03.24		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	373627.0573	31182.3108	342444.7465
	b) Amount of IDC in A(a) above	77081.83428	0	77081.83428
	c) Amount of FC in A(a) above	0	0	0
	d) Amount of FERV in A(a) above	1660.718763	0	1660.71876
	e) Amount of Hedging Cost in A(a) above	0	0	0
	f) Amount of IEDC in A(a) above	29654.14985	0	29654.14985
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be submitted at the time of TRUE UP

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PART-I FORM-N										
Calculation of Interest on Normative Loan										
Name of the Company :		NTPC Limited								
Name of the Power Station :		North Karanpura Super Thermal Power Project								
		(Amount in Rs Lakh)								
S. No.	Particulars	Existing 2023-24	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29		
1	2	3	4	5	6	7	8	9		
1	Gross Normative loan – Opening	8,53,958.15	8,55,639.08	8,56,834.68	10,65,226.16	11,50,424.56	11,89,544.06	11,91,294.06		
2	Cumulative repayment of Normative loan up to previous year	37,214.80	39,061.35	98,630.97	1,03,530.81	1,74,269.03	2,55,666.51	3,38,485.67		
3	Net Normative loan – Opening	8,16,743.35	8,16,577.73	7,58,203.71	9,61,695.35	9,76,155.53	9,33,877.55	8,52,808.39		
4	Add: Increase due to addition during the year / period	339.29	1,195.60	98.00	85,198.40	39,119.50	1,750.00	-		
5	Less: Decrease due to de-capitalisation during the year / period	102.70	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	1443.31	0.00	0.00	0.00	0.00	0.00	0.00		
8	Net addition in loan during the period (4+5+6+7)	1885.30	1195.60	98.00	85198.40	39119.50	1750.00	0.00		
9	Less: Repayment of Loan	1948.22	59,569.62	4,899.83	70,738.23	81,397.48	82,819.15	82,880.03		
10	Repayment adjustment on account of de capitalisation	101.67								
11	Repayment adjustment on account of discharges/reversals corresponding to un discharged liabilities deducted as on 1.4.2009	-								
12	Net Normative loan - Closing	8,16,578.76	7,58,203.71	7,53,401.88	9,76,155.53	9,33,877.55	8,52,808.39	7,69,928.36		
13	Average Normative loan	8,16,661.06	7,87,390.72	7,55,802.79	9,68,925.44	9,55,016.54	8,93,342.97	8,11,368.38		
14	Weighted average rate of interest	6.2106	6.1896%	6.1864%	6.1795%	6.3371%	6.6856%	6.9586%		
15	Interest on Loan	50719.55	48736.34	46756.98	59874.75	60520.35	59725.34	56459.88		
										(Petitioner)

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PART 1 FORM- O									
Calculation of Interest on Working Capital									
Name of the Company :		NTPC Limited							
Name of the Power Station :		North Karanpura Super Thermal Power Project							
		(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	8	9	
1	Cost of Coal/Lignite	34,943.60	15239.11	15239.11	22858.67	22858.67	22858.67	22858.67	
1-a	Cost of Limestone				696.26	696.26	696.26	696.26	
2	Cost of Main Secondary Fuel Oil	355.33	689.43	689.43	1034.15	1034.15	1036.98	1034.15	
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	1,818.28	4053.80	4916.63	6492.12	7250.19	7976.92	7888.65	
6	Maintenance Spares	4,363.86	9729.12	11799.92	15581.08	17400.46	19144.61	18932.75	
7	Receivables	47,346.77	46621.33	47725.02	66547.72	68972.25	70265.30	69855.27	
8	Total Working Capital	88827.83	76332.79	80370.12	113209.99	118211.97	121978.74	121265.74	
9	Rate of Interest	12.0000	11.9000	11.9000	11.9000	11.9000	11.9000	11.9000	
10	Interest on Working Capital	10659.34	9083.60	9564.04	13471.99	14067.22	14515.47	14430.62	
Petitioner									

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Form-01

ADDITIONAL FORM

Computation of Energy Charges

Name of the Company

NTPC Limited

Name of the Power Station

North Karanpura Super Thermal Power Project

1

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

$$= (GCV_A \times P_p)$$

4.209

2

Heat Contribution from SFO / Alternate Fuel (p/kwh)

$$= (Cost_A \times (GCV_A))$$

4.658

3

Heat Contribution from coal (p/kwh)

$$= GHR \times H_c$$

2332.90

4

Specific Primary Fuel Consumption (Gp) / (Gp) / (Gp) / (Gp)

$$= H_p / (GCV_p)$$

0.694

5

Rate of Energy charge from Primary Fuel (p/kwh)

$$= (REC_p) \times (GCV_p)$$

141.480

6

Rate of Energy charge ex-(REC) / (p/kwh)

$$= ((REC_p) \times (REC)) / (1 - (AUX))$$

155.401

for 2023-24

2024-25

2025-26  
(01.04.25-30.04.25)

2025-26  
(01.05.25-31.03.26)

2026-27

2027-28

2028-29

No of Days in the year

Days

365

365

365

365

365

Sec. Oil consumption

m/kwh

0.5

0.5

0.5

0.5

0.5

Auxiliary consumption

%

6.250

6.250

6.250

6.250

6.250

Heat Rate

Kcal/Kwh

2,337.56

2,337.56

2,337.56

2,337.56

2,337.56

Computation of Variable Charges

Variable Charge (Coal)

p/kwh

150.912

150.912

150.912

150.912

150.912

Variable Charge (Oil)

p/kwh

4.489

4.489

4.489

4.489

4.489

Variable Charge (FGD)

p/kwh

5.392

5.392

5.392

5.392

5.392

Total

p/kwh

155.401

155.401

160.794

160.794

160.794

Price of fuel from Form-15/15A/16A

Coal Cost (Rs./MT)

2037.18

2037.18

2037.18

2037.18

2037.18

Oil Cost (Rs./KL)

84173.42

84173.42

84173.42

84173.42

84173.42

Limestone Cost (Rs./MT)

3082.50

3082.50

3082.50

Computation of Fuel Expenses for Calculation of IWC:

ESCO in a year (MUs)

9214.43

9214.43

9214.43

9214.43

9214.43

ESCO for 40 days (MUs)

1009.800

1009.800

1009.800

1514.70

1514.70

Cost of coal for 40 Days (Rs. Lakh)

15239.11

15239.11

15239.11

22858.67

22858.67

Cost of oil for 2 months (Rs. Lakh)

689.43

689.43

689.43

1034.15

1034.15

Energy Expenses for 45 days (Rs. Lakh)

17653.99

17653.99

17653.99

27399.88

27399.88

Coal

Wtd. Avg. Price of Coal

Rs./MT

2037.18

Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg

KCal/Kg

3444.17

Sec. Oil

Wtd. Avg. Price of Secondary Fuel

Rs./KL

84173.42

Wtd. Avg. GCV of Secondary Fuel

KCal/Kg

9315.58

PETITIONER

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Form-O(ii) Additional Form							
Computation of Supplementary ECR and IOWC corresponding to FGD							
Particular	Unit	2024-25	2025-26 (01.04.25- 30.04.25)	2025-26 (01.05.25- 31.03.26)	2026-27	2027-28	2028-29
No. of days	days	365.00	365.00	365.00	365.00	365.00	365.00
FGD Capacity ODe achieved	MW			1980	1980	1980	1980
CVPF	kCal/Kg	3359.17	3359.17	3359.17	3359.17	3359.17	3359.17
CVSF	kCal/Litre	9315.58	9315.58	9315.58	9315.58	9315.58	9315.58
LPPF	Rs/MT	2037.18	2037.18	2037.18	2037.18	2037.18	2037.18
LPSP	Rs/KL	84173.42	84173.42	84173.42	84173.42	84173.42	84173.42
AUX-Norm	%	6.25	6.25	6.25	6.25	6.25	6.25
GHR-Norm	kCal/KWh	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56
SFC-Norm	Litre/KWh	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
ECR	Rs/kWh	1.554	1.554	1.554	1.554	1.554	1.554
AUX for DESOX(Norm)	%	1	1	1	1	1	1
NEW AUX-NORM	%	7.25	7.25	7.25	7.25	7.25	7.25
NEW GHR-NORM	kCal/KWh	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56
NEW SFC-NORM	Litre/KWh	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
NEW ECR	Rs/kWh	1.571	1.571	1.571	1.571	1.571	1.571
Delta ECR	Rs/kWh	0.017	0.016755	0.016755	0.017	0.017	0.017
Design SO2 removal efficiency	%	96.997	96.997	96.997	96.997	96.997	96.997
Landed price of reagent	Rs/MT	3082.50	3082.50	3082.50	3082.50	3082.50	3082.50
K(FGD Constant)	number	35.57	35.57	35.57	35.57	35.57	35.57
SHR Station Heat rate	kCal/KWh	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56	2,337.56
S-Sulphur Content	%	0.42	0.42	0.42	0.42	0.42	0.42
CVPF	kCal/Kg	3359.17	3359.17	3359.17	3359.17	3359.17	3359.17
LP-Lime stone purity	%	79.00	79.00	79.00	79.00	79.00	79.00
Specific Reagent consumption 'SRC' = (K x SHR x S /CVPF) x (85/LP)	gm/kWh	11.15	11.18	11.18	11.18	11.18	11.18
ECR (corresponding to reagent consumption)	Rs/kWh	0.03708	0.03717	0.03717	0.037	0.037	0.037
Supplementary ECR	Rs/kWh	0.05	0.0539248	0.0539248	0.05	0.05	0.05
ESD in the period	MTs	0.00	0.00	13674.21	13674.21	13711.67	13674.21
Cost of limestone in the period	Rs Lakh	0.00	0.00	5082.69	5082.69	5096.62	5082.69
Supplementary Energy Expenses in the period	Rs Lakh	0.00	0.00	7373.79	7373.79	7383.99	7373.79
Total cost of limestone for 50 day	Rs Lakh	0.00	0.00	696.26	696.26	696.26	696.26
Total Supplementary Energy Exp	Rs Lakh	0.00	0.00	909.10	909.10	909.10	909.10

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Summary of issue involved in the petition

Name of the Company :		NTPC Limited
Name of the Power Station :		North Karanpura Super Thermal Power Project
1	Petitioner:	NTPC Limited
2	Subject	Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of North Karanpura Super Thermal Power Project, Stage-I (3 X 660 MW) for the period from 01.04.2024 to 31.03.2029.
3	Prayer: i) Approve tariff of North Karanpura Super Thermal Power Project, Stage-I (3 X 660 MW) for the tariff period 01.04.2024 to 31.03.2029. ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expense from the beneficiaries. iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries on monthly basis, subject to true up. iv) Allow the recovery of pay / wage revision as additional O&M over and above the normative O&M. v) Consider Project heat rate based on design heat rate with applicable operating margin. vi) Pass any other order as it may deem fit in the circumstances mentioned above.	
4	Respondents: As per Petition	
	Name of Respondents	
	a.	
	b.	
	c.	
5	Project Scope	
	Cost	As per Form-1(i)
	Commissioning	01.3.2023, 20.03.2024
	Claim	As per Form-1
	AFC	
	Capital cost	As per Form-B
	Initial spare	
	NAPAF (Gen)	85%
	Any Specific	

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ANNEXURE-A



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
सूचना प्रौद्योगिकी एवं साइबर सुरक्षा प्रभाग  
Information Technology & Cyber Security Division  
\*\*\*\*\*

विषय : CEA (Cyber Security in Power Sector) Guidelines, 2021.

CEA is mandated to prepare 'Guidelines on Cyber Security' in Power Sector under the provision of regulation (10) of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019. Guidelines on Cyber Security in Power Sector incorporating the cardinal principles has been prepared by CEA. In compliance to the provision of the above regulation, CEA (Cyber Security in Power Sector) Guidelines, 2021 are issued for compliance by all entities listed in the clause 2.3 (Applicability of the Guidelines) of the guidelines.

Encl: Guidelines on Cyber Security

  
०७/१०/२१  
(V.K Mishra)  
Secretary CEA



## CEA (Cyber Security in Power Sector) Guidelines, 2021

### 1.0 Background

- 1.1 Cyber intrusion attempts and Cyber-attacks in any critical sector are carried out with a malicious intent. In Power Sector it's either to compromise the Power Supply System or to render the grid operation in-secure. Any such compromise, may result in mal-operations of equipments, equipment damages or even in a cascading grid brownout/blackout. The much hyped air gap myth between IT and OT Systems now stands shattered. The artificial air gap created by deploying firewalls between any IT and OT System can be jumped by any insider or an outsider through social engineering. Cyber-attacks are staged through tactics & techniques of Initial Access, Execution, Persistence, Privilege Escalation, Defence Evasion, Command and Control, Exfiltration. After gaining the entry inside the system through privilege escalation, the control of IT network and operations of OT systems can be taken over even remotely by any cyber adversary. The gain of sensitive operational data through such intrusions may help the Nation/State sponsored or non-sponsored adversaries and cyber attackers to design more sinister and advanced cyber-attacks.
- 1.2 Government of India has set up the Indian Computer Emergency Response Team (CERT-In) for Early Warning and Response to cyber security incidents and to have collaboration at National and International level for information sharing on mitigation of cyber threats. CERT-In regularly issues advisories on safeguarding computer systems and publishes Security Guidelines which are widely circulated for compliances. All Central Government Ministries/ Departments and State/Union Territory Governments have been advised to conduct cyber security audit of their entire Cyber Infrastructure including websites at regular interval through CERT-In empanelled Auditors so as to identify gaps and appropriate corrective actions to be taken in cyber security practices. CERT-In extends supports to enable Responsible Entity in conducting cyber security mock drills and in assessment of their preparation to withstand cyber-attacks. The Responsible Entity must submit Reports of Cyber Audit of cyber security controls, architecture, vulnerability management, network security and periodic cyber security drills to sectoral CERT as well as CERT-In. Team of experts shall review these reports and shortcomings if any in the compliances shall be flagged by them. CERT-In on regular basis also conducts workshops and training programs to enhance Cyber awareness of all Stakeholders.
- 1.3 Ministry of Power has created 6(six) sectoral CERTs namely Thermal, Hydro, Transmission, Grid Operation, RE and Distribution for ensuring cyber security in Indian Power Sector. Each Sectoral CERT has prepared their sub-sector specific model Cyber Crisis Management Plan(C-CMP) for countering cyber-attacks and cyber terrorism. Each Sectoral CERT has circulated their model C-CMPs for preparation and implementation of organization specific C-CMP by each of their Constituent Utility.
- 1.4 All Responsible Entities, Service Providers, Equipment Suppliers/Vendors and Consultants engaged in Power Sector are equally responsible for ensuring cyber security of the Indian Power Supply System. They are to act timely upon each threat intelligence,

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advisories and other inputs received from authenticated sources, for continuous improvement in their cyber security posture.

- 1.5 In the current Indian scenario though many cyber security directives and guidelines exists, but none of them are power sector specific. Ministry of Power has directed CEA to prepare Regulation on Cyber Security in Power Sector. And as an interim measures CEA has been directed to issue Guideline on Cyber Security in Power Sector, under the provision of Regulation 10 on Cyber Security in the “Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019”.
- 1.6 The Guidelines on Cyber Security, in the form of Articles written below, requires mandatory Compliance by all Responsible Entities. The Guidelines shall come into effect from the date of issue by Central Electricity Authority, New Delhi.
- 2.0 Hereby the Guidelines on Cyber Security are drawn in the form of Articles for compliance by the Requester as well as User under the following provision of Regulation 10 on Cyber Security, in the “Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019”.

*“The requester and the user shall comply with cyber security guidelines issued by the Central Government, from time to time, and the technical standards for communication system in Power Sector laid down by the Authority.”*

- 2.1 **Objective of issuing Guideline:**
  - a) Creating cyber security awareness
  - b) Creating a secure cyber ecosystem,
  - c) Creating a cyber-assurance framework,
  - d) Strengthening the regulatory framework,
  - e) Creating mechanisms for security threat early warning, vulnerability management and response to security threats,
  - f) Securing remote operations and services,
  - g) Protection and resilience of critical information infrastructure,
  - h) Reducing cyber supply chain risks,
  - i) Encouraging use of open standards,
  - j) Promotion of research and development in cyber security,
  - k) Human resource development in the domain of Cyber Security,
  - l) Developing effective public private partnerships,
  - m) Information sharing and cooperation
  - n) Operationalization of the National Cyber Security Policy
- 2.2 Within the text of these Articles, ‘**Responsible Entity**’ shall mean all:
  - a) Transmission Utilities as well as Transmission Licensees,
  - b) Load despatch centres (State, Regional and National),
  - c) Generation utilities (Hydro, Thermal, Nuclear, RE),
  - d) Distribution Utilities
  - e) Generation Aggregators,
  - f) Trading Exchanges,
  - g) Regional Power Committees, and
  - h) Regulatory Commissions.

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## 2.3 Applicability:

All Responsible Entities as well as System Integrators, Equipment Manufacturers, Suppliers/Vendors, Service Providers, IT Hardware and Software OEMs engaged in the Indian Power Supply System.

## 2.4 Scope:

### 2.4.1 Control Systems for System Operation and Operation Management.

- a) Grid Control and Management Systems,
- b) Power Plant Control Systems,
- c) Central Systems used to monitor and control of distributed generation and loads e.g. virtual power plants, storage management, central control rooms for hydroelectric plants, photovoltaic/wind power installations,
- d) Systems for fault management and work force management,
- e) Metering and measurement management systems,
- f) Data archiving systems,
- g) Parameterisation, configuration and programming systems,
- h) Supporting systems required for operation of the above mentioned systems,

### 2.4.2 Communication System.

- a) Routers switches and firewalls,
- b) Communication technology-related network components,
- c) Wireless digital systems,
- d) Control Centre to Control Centre Communications for data exchange on ICCP.  
(IEC 61850/60850-5/TASE.2/)

### 2.4.3 Secondary, Automation and Tele control technologies

- a) Control and Automation components,
- b) Control and field devices,
- c) Tele control devices,
- d) Programmable logic controllers / Remote Terminal Units, including digital sensor and actuators elements,
- e) Protection devices,
- f) Safety components,
- g) Digital measurement and metering installations,
- h) Synchronisation devices,
- i) Excitation Systems,

## 3.0 Definition of Terms:

1. **Access Management:** shall mean set of policies and procedures of the Responsible Entity for allowing Personnel, devices and IoT to securely perform a broad range of operational, maintenance, and asset management tasks either on site or remotely as laid down in Clause 5.2.5 of IS 16335.
2. **Accreditation:** shall mean the process of verifying that an organisation is capable of conducting the tests and assessments against a product/process that are required to be certified.

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3. **Accreditation Body:** shall mean an organisation that has been accredited to verify the credentials and capabilities of the organisations that wish to become a certification body.
4. **Act:** shall mean the Information Technology Act, 2000 (21 of 2000)
5. **Asset:** shall mean anything that has value to the organization.
6. **Certification:** shall mean the process of verifying that a product has been manufactured in conformance with a set of predefined standards and/or regulations by an organisation, that is accredited to conduct the certification process
7. **Certification Body:** shall mean an organisation that has been accredited by an accreditation body to certify products / process against a certification scheme.
8. **Certification Scheme:** shall mean the processes, paperwork, tools, and documentation that define how a product or manufacturer is certified
9. **Chief Information Security Officer:** shall mean the designated employee of Senior management level directly reporting to Managing Director/Chief Executive Officer/Secretary of the Responsible Entity, having knowledge of Information Security and related issues, responsible for cyber security efforts and initiatives including planning, developing, maintaining, reviewing and implementation of Information Security Policies
10. **Critical Assets:** shall mean the facilities, systems and equipment which, if destroyed, degraded or otherwise declared unavailable, would affect the reliability or operability of the Power Supply System.
11. **Critical System:** shall mean cyber assets essential to the reliable operation of critical asset. Critical System consists of those cyber assets that have at least one of the following characteristics:
  - a) The cyber asset uses a routable protocol to communicate outside the electronic security perimeter.
  - b) The cyber asset uses a routable protocol within a control centre.
  - c) The cyber asset is dial-up accessible.
12. **Critical Information Infrastructure:** shall mean Critical Information Infrastructure as defined in explanation of sub-section (1) of Section 70 of the Act.
13. **Cyber Assets:** shall mean the programmable electronic devices, including the hardware, software and data in those devices that are connected over a network, such as LAN, WAN and HAN.
14. **Cyber Crisis Management Plan:** shall mean a framework for dealing with cyber related incidents for a coordinated, multi-disciplinary and broad-based approach for rapid identification, information exchange, swift response and remedial actions to mitigate and recover from malicious cyber related incidents impacting critical processes.
15. **Cyber Security Breach:** shall mean any cyber incident or cyber security violation that results in unauthorized or illegitimate access or use by a person as well as an entity, of data, applications, services, networks and/or devices through bypass of the underlying cyber security protocols, policies and mechanisms resulting in the compromise of the confidentiality, integrity or availability of data/information maintained in a computer resource or cyber asset.
16. **Cyber Security Incident:** shall mean any real or suspected adverse cyber security event that violates, explicitly or implicitly, cyber security policy of Responsible Entity resulting in unauthorized access, denial of service or disruption, unauthorized use of computer resource for processing or storage of information or changes to data or information

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without authorization, leading to harm to the power grid or its critical sub-sectoral elements Generation, Transmission and Distribution.

17. **Cyber Security Policy:** shall mean documented set of business rules and processes for protecting information, computer resources, networks, devices, Industrial Control Systems and other OT resources.
18. **Electronic Security Perimeter:** shall mean the logical border surrounding a network to which the Cyber Systems of Power Supply System are connected using a routable protocol.
19. **Information Security Division:** shall mean a division accountable for cyber security and protection of the Critical System of the Responsible Entity.
20. **Protected System:** shall mean any computer, computer system or computer network of the Responsible Entity notified under section 70 of the Act, in the official gazette by appropriate Government.
21. **Security Architecture:** shall mean a framework and guidance to implement and operate a system using the appropriate security controls with the goal to maintain the system's quality attributes like confidentiality, integrity, availability, accountability and assurance.
22. **Vulnerability:** shall mean intrinsic properties of something resulting in susceptibility to a risk source that can lead to an event with a consequence
23. **Vulnerability Assessment:** shall mean a process of identifying and quantifying vulnerabilities

#### 4.0 Standards

Reference	Description
ISO/IEC 15408	Common Criteria Certification Standard
ISO/IEC 17011	General requirements for accreditation bodies accrediting conformity assessment bodies
ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
ISO/IEC 21827	Systems Security Engineering - Capability Maturity Model (SSE-CMM)
ISO/IEC 24748-1	Systems and software engineering — Life cycle management — Part 1: Guidelines for life cycle management.
ISO 27001/2	Information Security Management
ISO/ IEC 27019	Information technology — Security techniques — Information Security controls for the energy utility industry
ISO/IEC 61508	Functional Safety of Electrical / Electronic / Programmable Electronic Safety-related Systems
IEC 61850	Communication networks and systems for power utility automation
IEC 62351	Standards for Securing Power System Communications
IEC 62443	Cyber Security for Industrial Control Systems
IS 16335	Power Control Systems – Security Requirements.

#### 5.0 Abbreviations

Abbreviations	Description
a) BES	Bulk Electric System

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b)	CDAC	Centre for Development of Advanced Computing
c)	CEA	Central Electricity Authority
d)	CERC	Central Electricity Regulatory Commission
e)	CERT	Computer Emergency Response Team
f)	CERT-In	Indian Computer Emergency Response Team
g)	CII	Critical Information Infrastructure
h)	CISO	Chief Information Security Officer
i)	CSK	Cyber Swachhita Kendra
j)	COTS	Commercial off-the Shelf
k)	ESP	Electronic Security perimeter
l)	ICS	Industrial Control Systems
m)	ICT	Information and Communications Technology
n)	IEC	International Electro Technical Commission
o)	ISAC	Information Sharing and Analysis Centre
p)	ISD	Information Security Division
q)	ISO	International Organization for Standardization
r)	ISMS	Information Security Management System
s)	IT	Information Technology
t)	FAT	Factory Acceptance Test
u)	NABL	National Accreditation Board for Testing and Calibration Laboratories
v)	NCIIPC	National Critical Information Infrastructure Protection Centre
w)	NLDC	National Load Dispatch Centre
x)	NPTI	National Power Training Institute
y)	NSCS	National Security Council Secretariat
z)	OEM	Original Equipment Manufacturer
aa)	OT	Operational Technology
bb)	RLDC	Regional Load Dispatch Centres
cc)	SAT	Site Acceptance Test
dd)	SERC	State Electricity Regulatory Commission
ee)	SCADA	Supervisory Control and Data Acquisition Systems
ff)	SIEM	Security Information and Event Management
gg)	SLA	Service Level Agreement
hh)	SLDC	State Load Dispatch Centre
ii)	QCI	Quality Council of India



## CEA (Cyber Security in Power Sector) Guidelines, 2021

### **Article 1. Cyber Security Policy.**

#### **a. Cardinal Principles: The Responsible entity will strictly adhere to following cardinal principles while framing cyber security policy:**

- i. There is hard isolation of their OT Systems from any internet facing IT system.
  - ii. May keep only one of their IT systems with internet facing at any of their site/location if required which is isolated from all OT zones and kept in a separate room under the security and control of CISO.
  - iii. Downloading/Uploading of any data/information from their internet facing IT system is done only through an identifiable whitelisted device followed by scanning of both for any vulnerability/malware as per the SOP laid down and for all such activities digital logs are maintained and retained under the custody of CISO for at least 6 months. The log shall be readily to carry out the forensic analysis if asked by investigation agency.
  - iv. List of whitelisted IP addresses for each firewall is maintained by CISO and each firewall is configured for allowing communication with the whitelisted IP addresses only.
  - v. Communication between OT equipment/systems is done through the secure channel preferably of POWERTEL through the fibre optic cable. Security configuration of the communication channel is also to be ensured.
  - vi. All ICT based equipment/system deployed in infrastructure/system mandatorily CII are sourced from the list of the "Trusted Sources" as and when drawn by MoP/CEA.
- b. The Responsible Entity shall be ISO/IEC 27001 certified (including sector specific controls as per ISO/IEC 27019).
  - c. The Responsible Entity shall have a Cyber Security Policy drawn upon the guidelines issued by NCIIPC.
  - d. The Responsible Entity shall ensure annual review of their Cyber Security Policy by subject matter expert and changes shall be made therein only after obtaining the due approval from Board of Directors.
  - e. The process of Access Management for all Cyber Assets owned or under control of the Responsible Entity shall be detailed in the Cyber Security Policy.
  - f. The Cyber Security Policy shall leverage state-of-art cyber security technologies and relevant processes at multiple layers to mitigate the cyber security risks.
  - g. The Responsible Entity shall be solely responsible to get Cyber Security Policy implemented through its Information Security Division (ISD).
  - h. The CISO shall record the reason(s) for exemption required, if any, in case, unable to comply with any of the provision(s) of the Cyber Security Policy. Any exception shall be allowed only after an approval of provisions of compensatory control(s) to mitigate residual cyber security risks.

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- i. The CISO shall record the exemptions sought in statement of applicability controls, while getting the ISO 27001 certified. All exemptions and its justification need to be in conformance with Cyber Security Policy of the Responsible Entity.
- j. The Responsible Entity shall allocate sufficient Annual budget for enhancing cyber security posture, enhanced year over year.
- k. The Responsible Entity shall work in collaboration with other Industry Stakeholders as well as Academia to promote R&D activity in the domain of cyber security.
- l. The Responsible Entity shall ensure that cyber security issues are taken up as agenda items in their Board meetings once in every three months.

## **Article 2 Appointment of CISO.**

- a) The Responsible Entity shall mandatorily appoint a CISO and shall confirm to qualification, if any, laid by Quality Council of India (QCI). In absence, the work of CISO shall be looked upon by Alternate CISO. In case qualification for appointment of Alternate CISO has been relaxed for reasons recorded thereof, Alternate CISO has to mandatorily acquire the minimum required cyber security skill sets within six months from the date of his appointment.
- b) The Responsible Entity shall regularly update details of CISO and Alternate CISO, with the Sectoral CERT, as well as on ISAC-Power Portal.
- c) Roles and Responsibility of CISOs shall be as laid by CERT-In and ring-fenced to ensure cyber security of the Cyber Assets of the Responsible Entity.

## **Article 3: Identification of Critical Information Infrastructure (CII).**

- a) The Responsible Entity shall submit to NCIIPC through Sectoral CERT, details of Cyber Assets which uses a routable protocol to communicate outside the Electronic Security Perimeter drawn by the Responsible Entity or a routable protocol within a control centre and dial-up accessible Cyber Assets, within 30 days from the date of their commissioning in the System.
- b) The Responsible Entity shall submit details of Critical Business Processes and underlying information infrastructure along with mapped impact and Risk Profile to NCIIPC and shall get their CIIs identified in consultation with NCIIPC. The process of the notification/declaration by Appropriate Government shall follow thereafter.
- c) The Responsible Entity shall review their declared/notified CIIs at least once a year to examine changes if any in the functional dependencies, protocols and technologies or upon any change in security architecture. The Responsible Entity shall review their declared/notified CIIs once in every 6 months, in case if NCIIPC has directed them to constitute an Information Security Steering Committee.
- d) The Responsible Entity shall ensure that all cyber assets of their identified/notified CIIs are recorded in the asset register and considered for risk assessment as well as for finalization of controls in statement of applicability.

## **Article 4. Electronic Security Perimeter**

- a) The Responsible Entity shall identify and document the Electronic Security Perimeter(s) and all Access Points to the perimeter(s).

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- b) The Responsible Entity shall follow procedure of identifying "Electronic Security Perimeter" in case of distributed and/or hybrid information infrastructure, as per IEC 62443 / IS16335 (as amended from time to time).
- c) The Responsible Entity shall ensure that every Critical System resides within an Electronic Security Perimeter.
- d) The Responsible Entity shall perform a cyber-Vulnerability Assessment of each electronic Access Points to the Electronic Security Perimeter(s) at least once in every 6 (six) months and/or after any change in Security Architecture.
- e) The Responsible Entity shall ensure that all critical, high and medium vulnerabilities identified as a result of cyber Vulnerability Assessment shall be closed and verified for the effective closure.

#### **Article 5. Cyber Security Requirements**

- a) The Responsible Entity shall have an Information Security Division (ISD), headed by CISO.
- b) The Responsible Entity shall ensure that the ISD must be functional on 24x7x365 basis and is manned by sufficient numbers of Engineers having valid certificate of successful completion of course on cyber security of Power Sector from the Training Institutes designated by CEA.
- c) The Responsible Entity shall ensure that ISD
  - 1) has on-boarded Cyber Swachhta Kendra(CSK) of CERT-In, if they have public IPs.
  - 2) has timely acted upon the advisories, guidelines and directive of NCIIPC, CSK, CERT-In and Sectoral CERTs,
  - 3) has deployed an Intrusion Detection System and Intrusion Prevention System capable of identifying behavioural anomaly in both IT as well as OT Systems.
  - 4) shares reports on incident response and targeted malware samples with CERT-In,
  - 5) updates the firmware/software with the digitally signed OEM validated patches only.
  - 6) enables only those ports and services that are required for normal operations. In case of any emergency the procedure as laid in Access management be followed.
  - 7) maintains firewall logs for the last 6 months duration. Firewall logs shall be analysed and all critical and high severity comments shall be addressed for effective closure.
  - 8) retains document of FAT, SAT test results and report/ certificate of cyber tests carried out for compliance of Government Orders and Cyber Security Audit.\*
  - 9) maintains all cyber logs and cyber forensic records of any incident for at least\*\* 90 days.

\* FAT, SAT must include comprehensive cyber security tests of the component/equipment/system to be delivered/delivered at site.

\*\* 90 days from date of the commissioning of the system/recovery from any incident, whichever is later.

- d) The Responsible Entity shall routinely audit and test security properties of the Critical System and must act upon, in case if any new vulnerabilities is identified through testing or by the equipment manufacturer.

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- e) The Responsible Entity shall design a secure architecture for control system appropriate for their process control environment\*.
- f) All State Load Dispatch Centres(SLDCs) shall comply with the directions issued by the National Load Dispatch Centre(NLDC) as well as Regional Load Dispatch Centres(RLDCs) U/s 29 (1) of the Electricity Act, 2003 to ensure stability and cyber security of grid operation and achieve efficiency in the grid operation. In case of any non-compliance, the Head of SLDC shall be responsible and shall be liable for Penalty as per the provision of CERC/SERC.

\*There are so many different types of systems in existence and so many possible solutions, it is important that the selection process ensures that the level of protection is commensurate with the business risk and the Responsible Entity shall not rely on one single security measure for its defence. (Reference IEC/TR62351-10 Edition 1.0 2012-10 *Power systems management and associated information exchange –Data and communications security – Part 10: Security architecture guidelines*).

#### **Article 6 Cyber Risk Assessment and Mitigation Plan**

- a) The Responsible Entity shall document in their Cyber Security Policy a Cyber Risk Assessment and Mitigation Plans drawn upon the best practises being followed in the Power Sector, and the same shall be approved by Board of Directors.
- b) The Cyber Risk Assessment and Mitigation Plans shall clearly define the matrix for assessing the cyber risk of both IT and OT environment and risk acceptance criteria.
- c) The Cyber Risk Assessment Plan shall be capable to demonstrate that repeated cyber security risk assessment delivers consistent, valid and comparable results.
- d) The review of cyber risk assessment shall be carried out at least once in a Quarter. The actionable of risk treatment and mitigation shall be tracked in this review for their effectiveness.
- e) The CISO shall be responsible for implementation and regular review, on the basis of internal and external feedbacks, of the Cyber Risk Assessment and Mitigation Plans.

#### **Article 7 Phasing out of Legacy System**

- a) As the life cycle of the Power System Equipment/System is longer than that of IT Systems deployed therein, the Responsible Entity shall ensure that all IT technologies in the Power System Equipment/System should have the ability to be upgraded.
- b) The Responsible Entity shall ensure that the Information Security Division shall draw the list of all communicable equipments/systems nearing end life or are left without support from OEM. Thereafter CISO shall identify equipment/systems to be phased out from the list drawn, firm up their replacement plan and put up the replacement plan for approval before the Board of Directors.
- c) The CISO shall ensure that till equipments/systems nearing end life or left without support from OEM are not replaced, their cyber security is hardened and ensured through additional controls provisioned in consultation with the OEM or alternate Supplier(s)\*.

\*e.g. Use of CDAC developed AppSamvid and whitelisting of applications installed may be explored across all legacy systems.

- d) The Responsible Entity shall document in their Cyber Security Policy a Standard Operating Procedure for safe and secure disposal of outlived or legacy devices.

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## Article 8. Cyber Security Training.

- a) The Responsible Entity shall establish, document, implement, and maintain an annual cyber security training program for personnel having authorized cyber or authorized physical access (unescorted or escorted) to their Critical Systems.
- b) The Responsible Entity shall review annually their cyber security training program and shall update it whenever necessary. Annual Review shall record evaluation of the effectiveness of the trainings held.
- c) The Responsible Entity shall ensure that Cyber Security training program designed for their IT as well as OT O&M Personnel must include following topics and as per their functional requirements and security concerns additional topics shall be added:
  - 1) User authentication and authorization.
  - 2) Cyber Security and Protection mechanisms of IT/OT/ICS Systems.
  - 3) Introduction to various standards i.e. ISO/IEC:15408, ISO/IEC:24748-1, ISO: 27001, ISO: 27002, ISO 27019, IS 16335, IEC/ISO:62443.
  - 4) Training on implementation of ISO/IEC 27001 and awareness on IEC 62443.
  - 5) Vulnerability Assessment in the Critical System.
  - 6) Monitoring and preserving of electronic logs of access of Critical Assets.
  - 7) Detecting cyber-attacks on SCADA and ICS systems
  - 8) The handling of Critical System during cyber crisis.
  - 9) Action plans and procedures to recover or re-establish normal functioning of Critical Assets and access thereto following a Cyber Security Incident.
  - 10) Hands on SCADA operation at any of the Regional Load Dispatch Centre.
  - 11) Handling of risks involved in the procurement of COTS Products.
- d) All Personnel engaged in O&M of IT & OT Systems shall mandatorily undergo courses on cyber security of Power Sector from any of the training institute designated by CEA, immediately within 90 days from the notification of CEA Guidelines on Cyber Security in Power Sector.
- e) The Responsible Entity shall ensure that none of their newly hired or the current Personnel have access to the Critical System, prior to the satisfactory completion of cyber security training programme from the Training Institutes designated in India, except in specified circumstances such as cyber crisis or an emergency.
- f) NPTI in consultation with CEA shall identify and design domain specific courses on Cyber Security for different target groups. The “Governing Board for PSO Training and Certification” shall approve the content, duration etc of these courses and shall review it Annually. NPTI shall conduct these courses at all of their branches on regular basis and shall maintain the list of the Participants successfully completing the course.

## Article 9 Cyber Supply Chain Risk Management

- a) The Responsible Entity shall ensure that, as and when Ministry of Power, Government of India notifies the Model Contractual Clauses on cyber security, these clauses are included in their every Bid invited for procurement of any ICT based components/equipments/System to be used for Power System.
- b) The Responsible Entity shall ensure that all the Communicable Intelligent Equipments and the Service Level Agreements (SLAs) for their Critical Systems shall be sourced from the list of the “Trusted Sources” as and when drawn by MoP/CEA

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- c) The Responsible Entity shall ensure that, in case, for the any Communicable Intelligent Devices, if no Trusted Source has been identified, then the successful bidder in compliance with the provisions made in MoP order dated 2.7.2020 and any other relevant MoP order has got the product cyber tested for any kind of embedded malware/Trojan/cyber threat and for adherence to Indian Standards at the designated lab.
- d) The Responsible Entity shall ensure that the essential cyber security tests are carried out successfully during FAT, SAT as detailed in **Annexure A**. The equipment/System besides for functionality shall also be tested in the factory for vulnerabilities, design flaws, parts being counterfeit or tainted, so as to minimize problems during on-site-testing and installation. Cyber Security Conformance Testing are to be carried out in the designated Lab as listed in **Annexure-I of MoP Order No. 12/13/2020-T&R dt. 8<sup>th</sup> June, 2021(Order at Annexure-B)**.
- e) The Responsible Entity shall ensure that the Equipment/System supplied by the successful bidder shall accompany with a certificate<sup>\$, #</sup> obtained by OEM from a certification body accredited to assess devices and process for conformance to IEC 62443-4 standards during design and manufacture. The Responsible Entity shall accept the certificate submitted along with the supplied Equipment/System only if it's in line with the Testing Protocol as notified by Ministry of Power, Government of India, from time to time.
- f) The Responsible Entity in compliance to the requirement of Article 9(e) shall also accept, till the setting up of an adequate certification facility in the India, a digitally signed self-declaration of conformance to the IEC 62443-4 standards during design and manufacture of the equipment/system, if submitted by the OEM.
- g) The Responsible Entity shall dispose all unserviceable or obsolete Communicable Intelligent Devices as per the procedure laid in their Cyber Risk Assessment and Mitigation Plans which shall be in line with the prevailing best practices.

\$ The National & International certification may be specified in the tender for critical systems/sub-systems being procured by the Responsible Entity.

# Certification Schemes:

**Embedded Device Security Assurance Certification** is for an individual product,  
**System Security Assurance Certification** is for a set of products in a system (possibly from different vendors)

**Security Development Lifecycle Assurance Certification** is for the development processes that a manufacturer uses for developing products.

## Article 10 Cyber Security Incident Report and Response Plan

- a) The CISO of the Responsible Entity shall report in the formats prescribed by CERT-In, all Cyber Security Incidents, classified as reportable events.
- b) Root cause analysis for all reportable events shall be carried out and corrective action taken, so as to ensure that any re-occurrence of such event can be managed with ease.
- c) The Responsible Entity shall mandatorily define in their Cyber Security Policy, criteria(s) identified on the basis of impact analysis, for declaring the occurrence of

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Cyber Security Incident(s) as a Cyber Crisis in the System owned or controlled by them.

- d) The Responsible Entity shall mandatorily designate an Officer along with his/her standby by name and designation and empower them to declare an occurrence of the incident(s) as "Cyber Crisis". The contact details of these Officers shall be updated in the C-CMP within 15 days of changes if any due to transfer or superannuation etc.
- e) The CISO shall ensure that during any Cyber Security Incident, ISD monitors and minutely records every details of cyber security events and incidents in both IT as well as the OT System owned or controlled by the Responsible Entity.
- f) The CISO shall ensure that each cyber incident is handled strictly as per Cyber Security Incident Response Plan detailed in the latest C-CMP approved by the Board of Directors.
- g) The Responsible Entity shall ensure that the efficacy of the Cyber Security Incident Response Plan is tested annually through mock drill(s) carried out, if feasible, as simulation exercise(s) or as table top exercise(s) with wider participation of their employees, in consultation with CERT-In and sectoral CERT. In case if any shortcoming is observed in the Cyber Security Incident Response Plan suitable changes shall be made in it.
- h) The Responsible Entity shall ensure that the CISO compiles details of incident detection, incident handling, learnings from each incident and damage claims made if any and shall report to CERT-In as well as upload information on ISAC-Power Portal.

#### **Article 11 Cyber Crisis Management Plan(C-CMP)**

- a) The Responsible Entity shall prepare a Cyber Crisis Management Plan and submit to their sectoral-CERT for review with intimation to Ministry of Power/CISO-MoP. Responsible Entity shall update their C-CMP on the basis of comments made by sectoral-CERT and then submit for vetting to CERT-In. The C-CMP shall be updated once again to include the observations made by CERT-In before seeking approval of Board of Directors for implementation of C-CMP.
- b) The Responsible Entity shall ensure that the C-CMP is reviewed at least annually. The CISO shall ensure that all changes are made in C-CMP only with the due approval of Board of Directors and the changes made in C-CMP have been communicated through a verifiable means to all the concerned Personnel of the Responsible Entity.
- c) The CISOs shall be the custodian of all the cyber security related documents including Cyber Crisis Management Plan, Risk Treatment Plan, Statement of Applicability of controls, and compliance to regulator's requirement.
- d) The CISO shall be accountable for ensuring enforcement of C-CMP by Information Security Division of the Responsible Entity, during a cyber-crisis, as and when declared by the designated Officer. (refer Article 10(d))

#### **Article 12: Sabotage Reporting%**

- a) The Responsible Entity shall incorporate procedure for identifying and reporting of sabotage in their Cyber Security Policy within 30 days from issue of the Guidelines, or grant of licence under the appropriate legal provisions to the Responsible Entity.
- b) The CISO shall be held liable for non-reporting of identified sabotage(s) as per procedure laid for identifying and reporting of sabotage in the Cyber Security Policy of the Responsible Entity.

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- c) The CISO shall prepare a detailed report on disturbances or unusual occurrences, identified, suspected or determined to be caused by sabotage in the Critical System of the Responsible Entity, and shall submit the report to the Sectoral CERT as well as to CERT-In within 24 hours of its occurrence.
- d) The CISO shall submit to NCIIPC within 24 hours of occurrence the report on every sabotage classified as cyber incidents(s) on "Protected System".
- e) The CISO upon occurrence on every sabotage shall take custody of all log records as well as digital forensic records of affected Cyber Assets, Intrusion Detection System, Intrusion Protection System, SIEM and shall preserve them for at least 90 days and shall make them available as and when called upon for investigation by the concerned Agencies.

*%Disturbances or unusual occurrences, suspected or determined to be caused by sabotage.*

*Sabotage e.g. can be a forced intrusion in un-manned/manned facility and taking control of operation of Critical System through a communicating device.*

### **Article 13 Security and Testing of Cyber Assets**

- a) The Responsible Entity shall ensure security of all in-service phase as well as standby Cyber Assets through regular firmware/Software updates and patching, Vulnerability management, Penetration testing (of combined installations), securing configuration, supplementing security controls. CISO shall maintain details of update version of each firmware and software and their certification if received from OEMs.
- b) The Responsible Entity shall carry out regularly Vulnerability Assessment of all Cyber Assets owned or under their control. If a Cyber Asset is found vulnerable to any exploits or upon any patch updates or major configuration changes, then further Penetration Testing may be carried out offline or in a suitably configured laboratory test-bed to determine other vulnerabilities that may have not been identified so far.
- c) The Responsible Entity shall specify security requirement and evaluation criteria during each phase of their procurement Process.
- d) The Responsible Entity shall ensure that all Cyber Assets being procured shall conform to the type tests as mentioned in the specification for type testing listed in the bid document. Type test reports of tests conducted in NABL accredited Labs or internationally accredited labs (with in last 5 years from the date of bid opening) shall be mandated to be submitted along with bid. In case, the submitted Type Test reports are not as per specification, the re-tests shall be conducted without any cost implication to the Responsible Entity.
- e) The Responsible Entity shall ensure that all Communicable devices are tested for communication protocol as per the ISO/IEC/IS standards listed in **MoP Order No. 12/13/2020-T&R dated 8<sup>th</sup> June, 2021(Annexure-B).**
- f) The Responsible Entity shall ensure that all Critical Systems designed with Open Source Software are adequately cyber secured.
- g) The Responsible Entity as a best practise upon any incidence of Cyber Security Breach shall carry out cyber security tests at any lab designated for cyber testing by Ministry of Power. These tests shall be similar to Pre Commissioning Security Test and those essential for carrying out Post Incident Forensics Analysis.

### **Article 14 Cyber Security Audit**

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- a) The Responsible Entity shall implement Information Security Management System (ISMS) covering all its Critical Systems.
- b) The Responsible Entity shall through a CERT-In Empanelled Cyber Security OT Auditor shall get their IT as well as OT System audited at least once in every 6 (six) months and shall close all critical and high vulnerabilities within a period of one month and medium as well as low non-conformity before the next audit. Effective closure of all non-conformities shall be verified during the next audit.
- c) The Cyber Security Audit shall be as per ISO/IEC 27001 along with sector specific standard ISO/IEC 27019, IS 16335 and other guidelines issued by appropriate Authority if any. These mentioned standards shall be current with all amendments if any and in case if any standard is superseded, the new standard shall be applicable. CISO shall ensure immediate closure of non-conformance, based on the criticality and by means all non-conformances are to be closed before the next audit.
- d) The Responsible Entity shall ensure that CISO has all the required systems and documents in place, as mandated by NSCS for base line cyber security audit.



## FAT & SAT

1. During FAT stage, the customer has to verify all types test reports / certificates including Communication protocol and security conformance tests of the devices offered for FAT.
2. FAT of SCADA involves testing as a whole system in the integrated scale down set up. For SCADA, Indian standard IS 15953: 2011 “SCADA System for Power System Applications” provides definition and guidelines for the specification, performance analysis and application of SCADA systems for use in electrical utilities (for transmission & Distribution) including guidance on Tests and inspections.
3. The SAT will be done at customer site as per the SAT document mutually agreed by buyer and supplier. For SAT also, guidance from IS 15953: 2011 need to be applied.
4. IEC 61850-10-3 Communication Networks and Systems For Power Utility Automation- Functional testing of IEC 61850 systems (in draft stage - CDTR) covers testing of applications within substations covering
  - a. A methodical approach to the verification and validation of a substation solution
  - b. The use of IEC 61850 resources for testing in Edition 2.1
  - c. Recommended testing practices for different use cases
  - d. Definition of the process for testing of IEC 61850 based devices and systems using communications instead of hard wired system interfaces (ex. GOOSE and SV instead of hardwired interfaces)
  - e. Use cases related to protection and control functions verification and testing.

This standard may be used as a guidelines for FAT & SAT for Substation Automation System (SAS) based on IEC 61850.



## Annexure - B

### Annexure – 1

#### List of designated laboratories for cyber security conformance testing

**Table -A. Field Equipment /Operational Technology (OT)**

SL No.	Equipment	Communication Protocol Conformance Standards	Protocol Security Conformance Standards	Designated Laboratories
1	Remote Terminal Units (RTUs) & PLCs with IEC communications protocols	IEC 60870-5 -101 / IEC 60870-5 -104 (Test Details Annexure 2)	IEC 60870-5- 7 Security extension & IEC 62351 series (specifically IEC 62351-100 parts 1 & 3) ( Test Details Annexure-2	Central Power Research Institute (CPRI), Prof Sir C V Raman Road, Sadashivanagar P O, Bengaluru – 560080, Karnataka
2	Intelligent Electronic Equipment / Numerical Protection Relays / Bay Control Units / Bay Protection Units, Gateways, Transformer Tap controller/ changer, etc. with IEC 61850 communication protocol	IEC 61850 – 5 to IEC 61850 – 10  ( Test Details Annexure 2)		CPRI
3	Smart meters with IEC 62056 communication protocols	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series ( Test details Annexure 2)	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series (Test Details Annexure 2)	1. CPRI 2. Electrical Research and Development Association (ERDA), ERDA Road, GIDC, Makarpura, Vadodara - 390 010, Gujarat 3. Yadav Measurements Pvt. Ltd. (YMPL) 373-375, RIICO Bhamashah Industrial Area Kaladwas 313003 Udaipur – Rajasthan

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**Information Technology (IT) Equipment (Main / Backup / Disaster recovery (DR) Control Centre / Substation control centre IT equipment)**

All IT products procured /supplied shall have a valid Certificate of Common Criteria as per ISO/IEC 15408 issued by signatories of the Common Criteria Recognition Agreement (CCRA) ([www.commoncriteriaportal.org](http://www.commoncriteriaportal.org)).

Import/procurement/supplied from vendors sourcing from prior reference countries, the Certificate for Common Criteria shall be from Government Laboratories in India according to the IC3S scheme operated by Ministry of Electronics and Information Technology, which is a signatory to CCRA.

<https://www.commoncriteria-india.gov.in/>



**Details of tests for various identified products****Remote Terminal Units (RTUs) (Sl. No. 1 of Table – A of Annexure – 1)****Test protocol:**

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

**Reference standards**

- 1) IEC 60870-5-101 & IEC 60870-5-104 as applicable
- 2) IEC 60870-5-7 Telecontrol equipment and systems - Part 5-7: Transmission protocols - Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (applying IEC 62351)
- 3) IEC 62351-100-1 & IEC 62351-100-3 and other cross referenced standards.

**Test cases****Extract from standard (IEC 62351-100-1)**

The conformance test cases are divided into four clauses:

- Clause 5: Verification of configuration parameters. This clause contains the configuration parameters affecting the message contents and/or the protocol behaviour.
- Clause 6: Verification of communication. The goal of this clause is to verify that Device Under Test (DUT) is able to implement the security extension messages as described in IEC TS 60870-5-7.
- Clause 7: Verification of procedures. The goal of this clause is to verify that DUT is able to execute the security extension procedures as described in IEC TS 62351-5.
- Clause 8: Test result chart. This clause contains the results of the test cases listed in Clauses 6 and 7 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered; their numbering syntax is: Subclause number (where the Table is located) + test case number.

In the column 'reference' each test case has a direct reference to IEC TS 62351-5 or IEC TS 60870-5-7 where the clause under test is defined.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M= Mandatory test case. The test is referencing a clause that is mandatory in IEC TS 62351-5 or IEC TS 60870-5-7.

Protocol Information Conformance Statement (PICS) x, x = Mandatory test case if the functionality is enabled in the PICS (by marking the applicable check box), with a reference to the section number of the PICS (x.x).



### Conformance testing of security extension procedures

The security extension procedures can be summarized as follows:

- User management
- Update key maintenance
- Session key maintenance
- Challenge/Reply authentication
- Aggressive Mode authentication

### Extract from standard (IEC 62351-100-3)

IEC 62351-3 defines the requirements related to the authentication/encryption protocol, procedures and methods to be implemented at TCP/IP (transport) level.

The conformance test cases are divided into three clauses:

- Clause 5: Verification of configuration parameters. This clause contains the parameters specified by the standards referencing IEC 62351-3 (see IEC 62351-3:2014/AMD1:2018, Clause 7) and affecting the protocol behaviour.
- Clause 6: Verification of IEC 62351-3 requirements. The goal of this clause is to verify that DUT is conformant to the requirements of the IEC 62351-3.
- Clause 7: Test result chart. This clause contains the results of the test cases listed in Clause 6 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered, their numbering syntax is: Subclause number (where the table is located) + test case number.

In the column 'Reference' each test case has a direct reference to IEC 62351-3 where the clause under test is defined. PICS or Protocol Implementation eXtra Information for Testing (PIXIT) could be found in the "Reference" column for some test cases whenever the execution of the test case shall take into account specific parameter values declared in the PICS or PIXIT of the DUT.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M = Mandatory test case. The test is referencing to a clause that is mandatory in IEC 62351-3.

PICS

or

PIXIT = Mandatory test case if the functionality is enabled in the PICS or PIXIT by marking the applicable check box or declaring the applicable value.



### **Intelligent Electronic Devices (IEDs) (Sl. No. 2 of Table – A of Annexure – I)**

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

#### **Reference standards**

IEC 61850 series

Specifically IEC 61850-5, IEC 61850-6, IEC 61850-7, IEC 61850-8, IEC 61850-9 and IEC 61850-10

#### **Test cases**

Communication protocol conformance as per IEC 61850 -10. This part of standard defines methods and abstract test cases for conformance testing of client, server and sampled values devices used in power utility automation systems, the methods and abstract test cases for conformance testing of engineering tools used in power utility automation systems, and the metrics to be measured within devices according to the requirements defined in IEC 61850-5. Further this part of standard specifies standard techniques for testing of conformance of client, server and sampled value devices and engineering tools, as well as specific measurement techniques to be applied when declaring performance parameters. The use of these techniques will enhance the ability of the system integrator to integrate IEDs easily, operate IEDs correctly, and support the applications as intended.

### **Smart Meters (Sl. No. 3 of Table – A of Annexure – I)**

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

IEC 62056 series of standards (Electricity metering data exchange – The DLMS/COSEM suite) specifies details of communication protocol requirements, conformance testing and security requirements. The Part 5-3 (DLMS/COSEM application layer) specifies the DLMS/COSEM application layer in terms of structure, services and protocols for DLMS/COSEM clients and servers, and defines rules to specify the DLMS/COSEM communication profiles. It defines services for establishing and releasing application associations, and data communication services for accessing the methods and attributes of COSEM interface objects, defined in IEC 62056-6-2 using either logical name (LN) or short name (SN) referencing.

Clause 5 and sub clauses specifies security requirements. It cover security concepts, Identification and authentication, Cryptographic algorithms, Cryptographic keys – overview, Key used with symmetric key algorithms, Keys used with public key algorithms and Applying cryptographic protection.

**Note:** All above referred standards shall be latest with amendments if any at the time of submission of sample(s) for testing.



## Testing Criteria

### 1) Supply from Trusted Sources

The sample size shall be as specified by CEA as per the approved criteria for Trusted Vendors

### 2) Supply from other than trusted vendors

The sample size shall be 5% of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated laboratory for communication and cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.

### 3) Supply from prior reference countries

The utility shall obtain prior permission from the Government of India for importing the product / system from prior reference countries.

The sample size shall be 10 % of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated Government / Government controlled Autonomous laboratory for type tests (Annexure – 4) and communication & cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.



## Type Tests

Products imported from prior reference countries shall also undergo type testing as per following standards in addition to communication protocol and security conformance testing at the designated Government / Government controlled Autonomous laboratory:

### Type test standards for RTUs

1. IEC 60870-1-2:1989 Telecontrol equipment and systems. Part 1: General considerations. Section Two: Guide for specifications.
2. IEC 60870-2-1:1995 Telecontrol equipment and systems - Part 2: Operating conditions - Section 1: Power supply and electromagnetic compatibility.
3. IEC 60870-2-2:1996 Telecontrol equipment and systems - Part 2: Operating conditions -Section 2: Environmental conditions (climatic, mechanical and other non-electrical influences).
4. IEC 60870-3:1989 Telecontrol equipment and systems. Part 3: Interfaces (electrical characteristics)

### Type test standard for IEDs / Numerical Protection Relays / Bay controls units

1. IEC 61850-3: 2013, Ed. 2 Communication networks and systems for power utility automation – Part 3: General requirements.

### Type test standards for Smart meters

1. IS 16444: 2015 AC static direct connected watthour smart meter class 1 and 2 – Specification.
2. IS 16444 Part 2: 2017 AC static transformer operated watthour and var - Hour smart meters, class 0.2 S, 0.5 S and 1.0 S: Part 2 specification transformer operated smart meters.

### Note:

1. All above referred standards shall be latest with amendments if any at the time of submission of sample(s) for testing.
2. Type tests generally covers functionality, environmental, mechanical, EMI/ EMC and electrical safety related tests.



## ANNEXURE-B

Ref: GM-NTPC/404/CE-HMI-02

Dated 21/09/2022

Sub: Recommendation for HMI Upgrade

The Windows XP/ Windows 7 based workstation hardware and Microsoft Operating System available at sites (projects listed in annexure-1) is out of mainstream support from OEM and Microsoft respectively. Also the support for Symantec Antivirus version 10.0 has been withdrawn by the OEM and no more security updates / virus definitions are available for that version. Hence the HMIs-maxStations are prone to vulnerabilities which can tamper the operation of plant.

HMI Upgrade for the projects mentioned in Annexure-1 is proposed due to various obsolescence in the DCS components as detailed below.

DCS Component		Existing version / model / Specification	Obsolescence
Workstation / Engineering server / Historian server	Hardware	<b>Workstation:</b> Intel Core 2 Duo processor, 1GB RAM, 146 GB SAS disk, 10 Mbps Ethernet port. <b>Server:</b> Intel Xeon dual core processor, 2 GB RAM, 3x76GB HDD, 10 Mbps Ethernet port.	Lower Processor cores and speed, lower HDD capacity and RAM requirements incompatible for latest software requirements; Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components and attributing to latency.
	Operating System	Windows 7 SP1 / Windows XP / Windows Server 2008 R2	Operating Systems were declared End of Support by the OEM- Microsoft as mentioned below: Windows XP - April' 2014 Windows 7 - Jan' 2020 Windows Server 2008 R2 - Jan' 2020
	maxDNA software	maxDNA 4.2.1 / 4.5 / 4.5.1 / 6.0.x	These versions are not compatible with latest Operating Systems; more improved version of maxDNA- release 7.x is available suiting the latest OS.
	Antivirus Software	Symantec 10.x / Symantec 11.x / Symantec 12.x	Declared obsolete by the OEM- Broadcom and no longer updates or virus definitions are available

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Network	Switch	10 Mbps backbone	Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components.
	Network Hardening settings	No validated Network hardening settings	Not suitable for latest network requirements with hardening features.

Prakash D  
AGM (CE-Engg-I)



### Annexure-1 List of upgrade projects

Sl No	Project Name
1	Barauni_Stage-2
2	Bongaigaon_Stage-1
3	Dadri-Thermal_Stage-1
4	Dadri-Thermal_Stage-2
5	Darlipalli_Stage-1
6	Farakka_Stage-2
7	Farakka_Stage-3
8	Gadarwara_Stage-1
9	KoldamHydro
10	Korba_Stage-1
11	Korba_Stage-3
12	Mauda_Stage-1
13	Mauda_Stage-2
14	NorthKaranpura_Stage-1
15	Rihand_Stage-2
16	Rihand_Stage-3
17	Simhadri_Stage-2
18	TANDA_Stage-1
19	TANDA_Stage-2
20	Unchahar_Stage-4
21	Vindhyachal_Stage-4
22	Vindhyachal_Stage-5
23	BRBCL Stage-I
24	Jhajjar Stage-I
25	KBUNL Stage-I
26	KBUNL Stage-II
27	NPGCL Stage-I
28	NSPCL Bhilai Stage-I
29	NTECL Stage-I

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**ANNEXURE-C**

**REPORTABLE**

**IN THE SUPREME COURT OF INDIA  
CIVIL APPELLATE JURISDICTION  
CIVIL APPEAL NO.11095 OF 2018**

**GMR WARORA ENERGY LIMITED ...APPELLANT (S)**

**VERSUS**

**CENTRAL ELECTRICITY REGULATORY  
COMMISSION (CERC) & ORS. ...RESPONDENT (S)**

**WITH**

**CIVIL APPEAL NOS.11910-11911 OF 2018**

**CIVIL APPEAL NOS.12055-12056 OF 2018**

**CIVIL APPEAL NO.3123 OF 2019**

**CIVIL APPEAL NO.5372 OF 2019**

**CIVIL APPEAL NO. 6641 OF 2019**

**CIVIL APPEAL NOS. 2935-2936 OF 2020**

**CIVIL APPEAL NOS. 4628-4629 OF 2021**

**CIVIL APPEAL NOS. 5583-5584 OF 2021**

**CIVIL APPEAL NO. 39 OF 2021**

**CIVIL APPEAL NO. 5005 OF 2022**

**CIVIL APPEAL NO. 4089 OF 2022**

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## List of abbreviations:

1.	APTEL	-	Appellate Tribunal for Electricity
2.	CEA	-	Central Electricity Authority
3.	CERC	-	Central Electricity Regulatory Commission
4.	CIL	-	Coal India Limited
5.	COD	-	Commercial Operation Date
6.	CSA	-	Coal Supply Agreement
7.	DISCOMS	-	Distribution Companies
8.	ECL	-	Eastern Coalfield Limited
9.	EFC	-	Evacuation Facility Charges
10.	FSA	-	Fuel Supply Agreement
11.	GCV	-	Gross Calorific Value
12.	LoA	-	Letter of Assurance
13.	LPS	-	Late Payment Surcharge
14.	MAT	-	Minimum Alternate Tax
15.	MCL	-	Mahanadi Coalfield Limited
16.	MERC	-	Maharashtra Electricity Regulatory Commission
17.	MoC	-	Ministry of Coal
18.	MoP	-	Ministry of Power
19.	MSEDCL	-	Maharashtra State Electricity Distribution Company Limited
20.	NCDP	-	New Coal Distribution Policy
21.	PPAs	-	Power Purchase Agreements
22.	RFP	-	Request for Proposal
23.	SBAR	-	State Bank Advance Rate
24.	SECL	-	South Eastern Coal Limited
25.	SHAKTI	-	Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India
26.	SHR	-	Station Heat Rate
27.	TANGEDCO	-	Tamil Nadu Generation and Distribution Corporation
28.	UHV	-	Useful Heat Value

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## J U D G M E N T

B.R. GAVAI, J.

### I. INTRODUCTION

1. When we heard this batch of Electricity appeals, it was agreed between all the parties that this Court should first decide Civil Appeal No. 684 of 2021 (**Maharashtra State Electricity Distribution Company Limited v. Adani Power Maharashtra Limited & Ors.**<sup>1</sup>) [*"MSEDCL v. APML & Ors."* for short] and Civil Appeal No. 6927 of 2021 (**Maharashtra State Electricity Distribution Company Limited v. GMR Warora Energy Ltd. & ors.**), inasmuch as three of the issues involved in all the appeals in the batch were common. It was submitted that those two appeals could be decided by deciding the three common issues. However, insofar as the other appeals are concerned, it was submitted that, in addition to the three common issues, certain

<sup>1</sup> 2023 SCC OnLine 233



additional issues were also involved and it was agreed that after those two appeals are decided, the other appeals should be heard for considering these additional issues.

**2. The said three common issues are thus:**

- (i) Whether 'Change in Law' relief on account of New Coal Distribution Policy, 2013 ("NCDP 2013" for short) should be on 'actuals' viz. as against 100% of normative coal requirement assured in terms of New Coal Distribution Policy, 2007 ("NCDP 2007" for short) OR restricted to trigger levels in NCDP 2013 viz. 65%, 65%, 67% and 75% of ACQ?
- (ii) Whether for computing 'Change in Law' relief, the operating parameters should be considered on 'actuals' OR as per technical information submitted in bid?
- (iii) Whether 'Change in Law' relief compensation is to be granted from 1<sup>st</sup> April 2013 (start of Financial Year) or 31<sup>st</sup> July 2013 (date of NCDP 2013)?



3. After extensively hearing all the learned counsel for the parties, vide the judgment and order dated 3<sup>rd</sup> March 2023 in the case of **MSEDCL v. APML & Ors.** (supra), this Court decided those two appeals after considering the aforesaid three issues.

4. The first issue was answered by this Court, holding that the 'Change in Law' relief for domestic coal shortfall should be on 'actuals', i.e. as against 100% of normative coal requirement assured in terms of the NCDP, 2007. Insofar as the second issue is concerned, it was held that the Station Heat Rate ("SHR" for short) and Auxiliary consumption should be considered as per the Regulations or actuals, whichever is lower. The third issue was answered holding that the Start date for the 'Change in Law' event for the NCDP, 2013 is 1<sup>st</sup> April 2013.

5. After we decided those appeals, we have heard the present appeals in which some of the issues which were decided by us vide the said judgment in the case of **MSEDCL v. APML & Ors.** (supra) also arose for consideration along with other issues. However, most of the issues in all these appeals are overlapping



and, therefore, we propose to decide these appeals by this common judgment.

## **II. BRIEF FACTS AND SUBMISSIONS**

### **Civil Appeal No. 11095 of 2018 and Civil Appeal Nos. 11910-11911 of 2018**

6. These cross appeals challenge the common judgment and order dated 14<sup>th</sup> August 2018 passed by the learned Appellate Tribunal for Electricity, New Delhi (hereinafter referred to as “APTEL”) in Appeal No. 111 of 2017 & I.A. No.450 of 2018 and in Appeal No.290 of 2017 & I.A. No.519 of 2017.

7. Civil Appeal No.11095 of 2018 is filed by GMR Warora Energy Ltd. (hereinafter referred to as “GWEL”/”Generator”) to the extent it was denied compensatory benefits on certain components on the ground of ‘Change in Law’.

8. Civil Appeal Nos. 11910-11911 of 2018 have been filed by DNH Power Distribution Co. Ltd. (DPDCL) (hereinafter referred to as “DNH-DISCOM”), being aggrieved by the order of the learned



APTEL accepting the claim of GWEL on certain issues and holding the same to be 'Change in Law'.

**9.** The facts, in brief, giving rise to these appeals are as under:

**10.** GWEL had set up a Thermal Power Station at Warora, District Chandrapur in the State of Maharashtra with an installed capacity of 600 MW (2 x 300 MW). The Commercial Operation Date ("COD" for short) of Unit 1 was 19<sup>th</sup> March 2013 and that of Unit 2 was 1<sup>st</sup> September 2013.

**11.** GWEL had entered into long term Power Purchase Agreements ("PPAs" for short) with DNH-DISCOM for supply of 200 MW power to Maharashtra State Electricity Distribution Company Limited ("MSEDCL" for short) on 17<sup>th</sup> March 2010 ["MSEDCL PPA"] and for supply of 200 MW power on 21<sup>st</sup> March 2013 ("DNH PPA"), after it emerged as the successful bidder for supply of power to MSEDCL/ DNH-DISCOM. The Scheduled delivery date under the MSEDCL PPA was 17<sup>th</sup> March 2014, whereas under the DNH PPA, it was 1<sup>st</sup> April 2013. GWEL is also supplying 150 MW power from its power plant to Tamil Nadu



Generation and Distribution Corporation ("TANGEDCO" for short) by way of back-to-back arrangement with trading company GMR Energy Trading Limited, for which purpose, a PPA was signed on 27<sup>th</sup> November 2013 ("TANGEDCO PPA").

**12.** In terms of the PPAs, the cut-off date, which is 7 days prior to the bid deadline, is to be considered for the purpose of claims under 'Change in Law'. Following are the cut-off dates under the said PPAs.

	DNH PPA	MSEDCL PPA	TANGEDCO PPA
Cut-off date	1.6.2012	31.7.2009	27.2.2013

**13.** Certain 'Change in Law' events occurred with regard to MSEDCL PPA and DNH PPA after the cut-off date. The same were notified by GWEL to MSEDCL/ DNH-DISCOM.

**14.** GWEL filed Petition No. 8/MP/2014 before the Central Electricity Regulatory Commission (hereinafter referred to as "CERC") seeking relief for 'Change in Law'.



**15.** Vide Order dated 1<sup>st</sup> February 2017, certain claims were allowed and certain claims were disallowed by the CERC.

**16.** The claims which were allowed by the CERC are thus:

- “i. Increase in CVD from 8% to 10% and 10% to 12%;
- ii. Increase in Excise Duty;
- iii. Increase in Service Tax;
- iv. Increase in other taxes [Work Contract Tax (WCT), VAT, CST];
- v. Change in Excise Duty on coal;
- vi. Increase in the rate of Royalty on coal;
- vii. Levy of Clean Energy Cess by Government of India (Gol);
- viii. Increase in service tax on transportation of goods by IR;
- ix. Levy of Swachh Bharat Cess.”

**17.** The claims which were disallowed by the CERC are thus:

- “i. Withdrawal of deemed export benefit by DGFT;



- ii. Design changes in Coal Handling Plant (CHP);
- iii. Increase in the rate of Minimum Alternate Tax (MAT);
- iv. Increase in Busy Season Surcharge and Development surcharge on transportation of coal by Indian Railways (IR);
- v. Increase in sizing charges and surface transportation charges by Coal India Ltd. (CIL);
- vi. Increase in operating cost on account of specification of coal quality to be used for the TPS;
- vii. Change from UHV to GCV based pricing of coal;
- viii. Incremental increase in Interest on Working Capital (IWC) on account of increase in Project costs.”

**18.** Being aggrieved by the judgment and order passed by the CERC, cross-appeals were filed by both GWEL and DNH-DISCOM.

**19.** Vide the impugned judgment, the learned APTEL, while concurring with the view of CERC on the claims allowed by it,



further allowed the claims on the ground of 'Change in Law' on the following components:

- (i) Busy Season Surcharge and Development Surcharge;
- (ii) Ministry of Environment and Forest ("MoEF") Notification on coal quality; and
- (iii) Change in NCDP and Carrying Cost.

**20.** However, the rest of the claims were disallowed by the learned APTEL, concurring with the view taken by the CERC. Insofar as the appeal filed by DNH-DISCOM is concerned, the same was dismissed by the learned APTEL. Hence, these cross-appeals.

**21.** We have heard Mr. Vishrov Mukherjee, learned counsel appearing on behalf of the GWEL and Mr. Samir Malik, learned counsel appearing on behalf of MSEDCL and Mr. M.G. Ramachandran, learned Senior Counsel appearing on behalf of the DNH-DISCOM.



**22.** Mr. Vishrov Mukherjee submits that the learned APTEL has erred in disallowing the claim on the following items:

- (i) Withdrawal of Deemed Export Benefit by way of Circular dated 28<sup>th</sup> December 2011 and Notification dated 28<sup>th</sup> December 2011 issued by the Directorate General of Foreign Trade ("DGFT") and amendment to the Foreign Trade Policy dated 21<sup>st</sup> March 2012;
- (ii) Imposition of Crushing/Sizing charges and Surface Transportation Charges by Notification dated 15<sup>th</sup> October 2009;
- (iii) Change in system of classification of coal by Coal India Limited ("CIL" for short) from Useful Heat Value ("UHV" for short) to Gross Calorific Value ("GCV" for short) system of pricing by way of Notification dated 30<sup>th</sup> December 2011;
- (iv) Increase in levy of Minimum Alternate Tax ("MAT" for short) pursuant to amendment of Section 115JB of the Income Tax Act, 2012;



- (v) Design changes in Coal Handling Plant in terms of letter issued by the Central Electricity Authority ("CEA" for short) dated 19<sup>th</sup> April 2011;
- (vi) Increase in working capital.

**23.** It is submitted that all these changes have taken place on account of the Notifications/Orders/Circulars issued by the instrumentalities of the State and as such, the learned APTEL ought to have allowed the claim for compensation on account of 'Change in Law' on the aforesaid items also.

**24.** It is submitted that the compensation on account of the 'Change in Law' is based on the principle of restitution so as to put back the party to the same economic position it was in, had the 'Change in Law' event not taken place. However, this has not been considered in the correct perspective by the learned APTEL.

**25.** Learned counsel appearing on behalf of the DNH-DISCOM and MSEDCL, on the contrary, submit that the learned APTEL has erred in considering the Busy Season Surcharge and



Development Surcharge, MoEF Notification on coal quality, Change in NCDP and Carrying Cost as 'Change in Law' events. He submits that when the Generator had submitted its bid, it was aware that there was a likelihood of variations on certain payments to be made and the same were factored in while submitting the bid. It is, therefore, submitted that the learned APTEL erred in granting 'Change in Law' benefits on the said issues.

**Civil Appeal Nos. 4628-4629 of 2021**

**26.** These appeals have been filed by Uttar Haryana Bijli Vitran Nigam Limited and Dakshin Haryana Bijli Vitran Nigam Limited (hereinafter referred to as "Haryana Discoms") challenging the common judgment and order dated 7<sup>th</sup> June 2021 passed by the learned APTEL in Appeal No.158 of 2017 & I.A. No.575 of 2018 and Appeal No. 316 of 2017. Appeal No.158 of 2017 & I.A. No.575 of 2018 were filed by Adani Power (Mundra) Limited (hereinafter referred to as "AP(M)L"), being aggrieved by the order passed by the CERC dated 6<sup>th</sup> February 2017, whereby the CERC

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had denied certain claims for compensation on certain components on account of 'Change in Law', whereas Appeal No.316 of 2017 was filed by Haryana Discoms challenging grant of claim of compensation on certain components on the ground of 'Change in Law'.

**27.** The Chart of claims which were allowed and disallowed by the CERC is as under:

“107. Based on the above analysis and decisions, the summary of our decision under the Change in Law during the operating period of the project is as under:

<b>Components</b>	<b>Change in Law Event</b>
Change in Rate of Royalty	Allowed
Levy of Central Excise Duty subject to directions in para 32 of the order	Allowed
Levy of Clean Energy Cess	Allowed
Levy of Customs Duty on energy removed from SEZ to DTA	Allowed
Increase in Busy Season Surcharge on transportation of coal	Not Allowed

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Increase in Development Surcharge on transportation of coal	Not Allowed
Levy of Service Tax on transportation of coal	Allowed
Levy of Green Energy Cess in Gujarat	Liberty granted to approach after Hon'ble Supreme Court's Decision
Increase in Sizing Charges of coal	Not Allowed
Increase in Surface Transportation	Not Allowed
Change in pricing of coal from UHV to GCV basis	Not Allowed
Change in class from 140 to 150 for Railway freight for coal for trainload movement	Not Allowed
Levy of Minimum Alternate Tax on plants situated in SEZ	Not Allowed
Linking railway tariff revision with movement in cost of fuel	Not Allowed
Imposition of Swachh Bharat Cess	Allowed
Payment to National Mineral Exploration Trust	Allowed

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Payment to District Mineral Foundation	Allowed
Installation of FGD as per Environmental clearance dated 20.5.2010  Auxiliary consumption due to FGD installation affecting capacity charges  Additional operating expenditure on FGD	Not decided and liberty granted
Carrying cost	Not Allowed

”

**28.** Being aggrieved by the order of the CERC, cross-appeals were filed by AP(M)L so also by Haryana Discoms before the learned APTEL. The Haryana Discoms challenged that part of the order of the CERC which allowed claim on components on the ground of ‘Change in Law’, whereas AP(M)L challenged that part of the order of the CERC which disallowed its claim on various components.

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**29.** Though AP(M)L had sought 'Change in Law' compensation on various components, the same was allowed by the learned APTEL by the impugned order only on the ground of:

- (i) 'Busy Season Surcharge and Developmental Surcharge on transportation of coal', and
- (ii) 'Carrying Cost'.

**30.** The claim of AP(M)L pertaining to increase in Surface Transportation Charges so also Sizing Charges of coal were denied by the learned APTEL, concurring with the view taken by the CERC.

**31.** Being aggrieved by the orders passed by the CERC and the learned APTEL allowing 'Change in Law' on certain components, the Haryana Discoms have approached this Court.

**32.** We have heard Ms. Poorva Saigal, learned counsel appearing on behalf of the Haryana Discoms and Dr. A.M. Singhvi, learned Senior Counsel appearing on behalf of AP(M)L.



**33.** Ms. Poorva Saigal submits that the learned APTEL grossly erred in reversing the well-reasoned findings of the CERC on the issue of Busy Season Surcharge and Developmental Surcharge on transportation of coal. She, therefore, submits that the finding of the learned APTEL with regard to the same needs to be set aside.

**34.** Dr. A.M. Singhvi, on the contrary, submits that the Busy Season Surcharge as well as the Developmental Surcharge are revised as per the Notifications/Circulars issued by the Ministry of Railways and as such, they would come within the definition of 'Change in Law'.

**Civil Appeal Nos. 12055-12056 of 2018**

**35.** These appeals, filed by Jaipur Vidyut Vitran Nigam Ltd., Ajmer Vidyut Vitaran Nigam Ltd. and Jodhpur Vidhyut Vitaran Nigam Ltd. (hereafter referred to as "Rajasthan Discoms"), challenge the common judgment and order dated 14<sup>th</sup> August 2018, passed by the learned APTEL in Appeal No. 119 of 2016 &



I.A. Nos. 668 and 674 of 2016 and in Appeal No.277 of 2016 & I.A. No.572 of 2016.

**36.** Appeal No. 119 of 2016 & I.A. Nos. 668 & 674 of 2016 were filed by M/s Adani Power Rajasthan Ltd. ("APRL" for short), being aggrieved by the judgment and order dated 15<sup>th</sup> March 2016, passed by the Rajasthan Electricity Regulatory Commission (hereinafter referred to as "State Commission") thereby disallowing some of its claims on account of 'Change in Law', whereas Appeal No. 277 of 2016 and I.A. No.572 of 2016 were filed by the Rajasthan Discoms, being aggrieved by the order of the State Commission of the same date vide which some of the 'Change in Law' claims were allowed by the CERC.

**37.** The 'Change in Law' claims which were allowed by the State Commission are as under:

- i. Change in Rate of Royalty Payable on Domestic Coal;
- ii. Levy of Service Tax on Transportation of Goods by Indian Railways (IR); and
- iii. Increase in Fee for 'Consent to Operate'.

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**38.** The 'Change in Law' claims which were not allowed by the State Commission are thus:

1.	Change in Pricing Mechanism of Coal from Useful Heat Value (UHV) Basis to Gross Calorific Value Basis (GCV)
2.	Increase in Sizing Charges for coal charged by Coal India Ltd. (CIL)
3.	Increase in Surface Transportation Charges
4.	Increase in Busy Season Surcharge on Transportation of Coal by Indian Railways
5.	Increase in Development Surcharge levied on Transportation of Coal by Railways
6.	Levy of Fuel Adjustment Component
7.	Levy of Port Congestion Surcharge
8.	Levy of Forest Tax
9.	Change in Classification of Coal for Train Load Movement

**39.** Vide the impugned judgment, the learned APTEL dismissed the appeal of the Rajasthan Discoms and partly allowed the appeal of APRL allowing its claims on the ground of 'Busy Season



Surcharge', 'Development Surcharge', 'Port Congestion Surcharge, 'Forest Tax' and 'Carrying Cost'. Being aggrieved thereby, the Rajasthan Discoms have approached this Court.

**40.** We have heard Mr. V. Giri, learned Senior Counsel appearing on behalf of the Rajasthan Discoms and Dr. A.M. Singhvi, learned Senior Counsel appearing on behalf of the APRL.

**41.** Mr. V. Giri submits that clause 10 in the PPA is referable only to taxes under Article 268 of the Constitution of India. He submits that the learned APTEL has, therefore, erred in allowing 'Change in Law' benefits on the issues related to Busy Season Surcharge, Development Surcharge, Port Congestion Charges, Forest Tax and Carrying Cost which are not taxes referable to Article 268 of the Constitution.

**42.** Dr. Singhvi made arguments on similar lines as have been made in the other appeals.

**Civil Appeal Nos. 2935-2936 of 2020**

**43.** These appeals have been filed by the Rajasthan Discoms and Rajasthan Urja Vikas Nigam Ltd. challenging the common



judgment and order dated 29<sup>th</sup> January 2020, passed by the learned APTEL in Appeal no.284 of 2017 and Appeal No. 09 of 2018.

**44.** Appeal No. 284 of 2017 was filed by APRL challenging the order dated 8<sup>th</sup> June 2017 passed by the State Commission, being aggrieved by the disallowance of its claim on some components on the ground of 'Change in Law' and carrying cost, whereas Appeal No.9 of 2018 was filed by Rajasthan Discoms being aggrieved by the claims which were allowed by the State Commission.

**45.** The list of the components which were allowed and which were not allowed on the ground of 'Change in Law' is thus:

"Sr. No.	Change in Law's items	Decision of the Commission
A	Levies on Royalty (i) National Mineral Exploration Trust effective from 14.08.2015 (ii) District Mineral Foundation effective from 12.01.2015	Allowed
B	Levy of Swachh Bharat Cess (SBC) along with Service Tax for rail	Allowed

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	transportation effective from 15.11.2015	
C	Levy of Swachh Bharat Cess @0.5% along with Service Tax - Operation Period effective from 15.11.2015	Not Allowed
D	Levy of Krishi Kalyan Cess (KKC) along with Service Tax and Swachh Bharat Cess for rail transportation from 1st June 2016	Allowed
E	Levy of Krishi Kalyan Cess @0.5% along with Service Tax and Swachh Bharat Cess - Operation Period from 1 <sup>st</sup> June 2016.	Not Allowed
F	Amendment to Environmental (Protection) Rules 1986	Not Allowed
G	Levy of Coal Terminal Surcharge (CTS) effective from 22.08.2016	Not Allowed
H	Utilization of Fly Ash generated from coal and lignite based thermal power projects	Not Allowed
I	CG Paryavaran Upkar	Not Allowed
J	CG Vikas Upkar	Not Allowed
K	Service Tax on transportation of goods by a vessel from a place outside India up to the custom station of clearance in India	Not Allowed

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L	Carrying Cost	Not Allowed"

**46.** As stated above, being aggrieved by that part of the order which disallowed its claim, APRL preferred the aforesaid Appeal before the learned APTEL, whereas the Rajasthan Discoms, being aggrieved by that part of the order which allowed claims on certain components, also filed an Appeal before the learned APTEL.

**47.** The learned APTEL, while dismissing the appeal of the Rajasthan Discoms, partly allowed the appeal of the APRL by allowing compensation on certain other components on the ground of 'Change in Law'.

**48.** The components on which 'Change in Law' benefits were granted by the learned APTEL are thus:

- (i) Coal Terminal Surcharge;
- (ii) Chhattisgarh Paryavaran Upkar;
- (iii) Chhattisgarh Vikas Upkar;



- (iv) Change in Swacch Bharat Cess at the rate of 0.5% on Service Tax for Operation Period;
- (v) Change in Krishi Kalyan Cess at the rate 5% on Service Tax for Operation Period;

**49.** In addition to grant of relief on the ground of 'Change in Law', the learned APTEL also granted 'Carrying Cost'.

**50.** Arguments similar to the ones advanced in Civil Appeal No. 12055-12056 of 2018 were advanced by Mr. V. Giri, learned Senior Counsel appearing on behalf of the Rajasthan Discoms, as well as by the learned counsel for the respondents.

**Civil Appeal No. 3123 of 2019 and Civil Appeal No.5372 of 2019**

**51.** These are cross appeals. Civil Appeal No.3123 of 2019 has been filed by Bihar State Power (Holding) Company Ltd. (hereinafter referred to as "Bihar Discoms") and Civil Appeal No.5372 of 2019 has been filed by GMR Kamalanga Energy Limited and GMR Energy Limited (hereinafter referred to as "GKEL"), challenging the judgment and order dated 21<sup>st</sup>

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December 2018 passed by the learned APTEL in Appeal No.193 of 2017 & I.A. No. 449 of 2018.

**52.** Appeal No.193 of 2017 & I.A. No.449 of 2018 were filed by GKEL challenging the order of the CERC dated 7<sup>th</sup> April 2017, aggrieved by the denial of its claims on certain components on the ground of 'Change in Law'. The Bihar Discoms have challenged that part of the order of the learned APTEL which allowed claims of GKEL on the ground of 'Change in Law'.

**53.** By the impugned order, the learned APTEL granted claims on the ground of:

- (i) Change in NCDP (cancellation of Captive Block vis-à-vis tapering linkage),
- (ii) busy season surcharge and developmental surcharge,
- (iii) carrying cost; and
- (iv) add on premium price.

**54.** We have heard Mr. Vishrov Mukerjee, learned counsel appearing on behalf of the GKEL/Generator and Ms. Anushree

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Bardhan, learned Counsel appearing on behalf of the Bihar Discoms.

**55.** Mr. Vishrov Mukerjee submits that the learned APTEL as well as the CERC have grossly erred in rejecting the claim for compensation on the ground of:

- (i) change in source of coal from Mahanadi Coalfields Ltd. ("MCL" for short) to Eastern Coalfields Ltd. ("ECL" for short) vide Notification dated 26<sup>th</sup> February 2014 issued by the CIL;
- (ii) change in mode of transportation from rail to road vide Notification dated 29<sup>th</sup> September 2014 issued by MCL;
- (iii) increase in levy of Minimum Alternate Tax ("MAT" for short); and
- (iv) interest on working capital.

**56.** Learned counsel submitted that change in source of coal from MCL to ECL was on account of the notification issued by the CIL, which is an instrumentality of the State. Similarly, he

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submitted that the change in mode of transportation from rail to road was on account of the notification issued by the MCL. Learned counsel submits that, since, on account of these notifications, the cost of transportation of coal increased, applying the restitutionary principle, the CERC as well as the learned APTEL ought to have granted claims on the basis of 'Change in Law'. He further submits that increase in levy of MAT has also been increased by the Union of India and, as such, the same would also amount to 'Change in Law'. It is further submitted that interest on working capital was also increased on account of the orders of the instrumentalities of the State and, as such, compensation also ought to have been granted for the same.

**57.** Learned counsel for the Bihar Discoms submits that the CERC as well as the learned APTEL have grossly erred in allowing claims on certain components on the ground of 'Change in Law'.



**Civil Appeal No. 6641 of 2019**

**58.** This appeal filed by GKEL arises out of the judgment and order dated 27<sup>th</sup> May 2019, passed by the learned APTEL in Appeal No.195 of 2016, thereby partly allowing the appeal.

**59.** GKEL filed Petition No.79/MP/2013 before the CERC claiming compensation on various component on the ground of 'Change in Law' events.

**60.** The CERC, vide order dated 3<sup>rd</sup> February 2016, disallowed compensation for the following components:

- (a) Change from UHV to GCV based pricing of coal pursuant to notification issued by the Government of India;
- (b) Increase/revision in the railway freight charges pursuant to notifications issued by Ministry of Railways and Ministry of Finance;
- (c) Increase in the rate of Minimum Alternate Tax ("MAT") rates;



- (d) Increase in Value Added Tax in the State of Odisha;
- (e) Increase in water charges pursuant to notifications issued by the Government of Odisha;
- (f) Incremental increase in interest on working capital on account of increase in costs during the operating period.

**61.** Being aggrieved thereby, Appeal No.195 of 2016. was preferred by GKEL. As stated above, the learned APTEL partly allowed the appeal and held that GKEL was entitled to compensation on following grounds.

- (i) Increase/revision in the railway freight charges in terms of notifications issued by the Ministry of Railways and Ministry of Finance on account of imposition of development surcharge, busy season surcharge and service tax;
- (ii) VAT rate enhancement from 4% to 5% from 30.03.2012 onwards;



- (iii) Carrying cost/interest on compensation on the above items after ascertainment of the same by computation, which shall be assessed from the date of respective notification/circular/order from the concerned Ministry/Department/Governmental instrumentality till payment is made.

**62.** Appellant-GKEL, being unsatisfied with the same, has approached this Court praying for a direction that it is also entitled to compensation on various other components, viz.,

- (i) Increase in Water Charges;
- (ii) Shift from UHV to GCV methodology of pricing of coal;
- (iii) Increase in rate of MAT; and
- (iv) Interest on working capital.

**63.** Arguments similar to the ones advanced in Civil Appeal No. 3123 of 2019 and Civil Appeal No.5372 of 2019 were advanced by the learned counsel for the parties.



**Civil Appeal Nos. 5583-5584 of 2021**

**64.** These appeals, filed by Bihar Discoms, arise out of the judgment and order dated 6<sup>th</sup> August 2021, passed by the learned APTEL in Appeal No. 423 of 2019 and in Appeal No.173 of 2021.

**65.** In the said case, the learned APTEL, vide order dated 21<sup>st</sup> December 2018, had allowed the following claims as 'Change in Law' and remanded the matter back to the CERC to determine compensation due to GKEL:

- (a) Shortfall in linkage coal and deviation in NCDP;
- (b) Cancellation of captive coal block;
- (c) Imposition of Busy Season Surcharge and Development Surcharge;
- (d) Levy of Add-On Premium over and above the notified price of coal; and
- (e) Carrying Cost.



**66.** Upon remand, the CERC passed order dated 16<sup>th</sup> September 2019, thereby granting compensation on certain components on the ground of 'Change in Law' including carrying cost.

**67.** Contending that the order passed by the CERC did not give effect to the 'Change in Law' components as directed by the learned APTEL, an appeal being Appeal No. 423 of 2019 came to be preferred by GKEL before the learned APTEL.

**68.** Bihar Discoms had also filed an appeal being Appeal No.173 of 2021, before the learned APTEL, being aggrieved by the benefits which were granted by the CERC.

**69.** By the impugned order, the learned APTEL held that the GKEL was entitled to recover expenditure involved in procurement of alternate coal due to shortfall in domestic coal supply corresponding to scheduled generation pertaining to the obligations under the Bihar PPA. The learned APTEL held that this was required to be done in order to restore the appellant-GKEL to the same economic position as before as if no 'Change in Law' event had occurred.

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**70.** We have heard Ms. Anushree Bardhan, learned counsel appearing on behalf of the appellant-Bihar Discoms and Mr. Maninder Singh, learned Senior Counsel appearing on behalf of GKEL.

**71.** Ms. Anushree Bardhan submits that the learned APTEL ought to have granted benefit of 'Change in Law' restricting it to shortfall for only 894.5 MW, which was the amount specified in the PPA, and not for the entire 1050 MW, which is the installed capacity. She further submits that the learned APTEL had also erred in granting add on premium on account of extension of tapering linkage by three years.

**72.** Shri Maninder Singh, learned Senior Counsel submits that insofar as the first issue with regard to shortfall of coal supply is concerned, the same is squarely covered by the judgments of this Court in the cases of ***Energy Watchdog v. Central Electricity Regulatory Commission and others***<sup>2</sup>, ***Jaipur Vidyut Vitaran***

<sup>2</sup> (2017) 14 SCC 80



***Nigam Ltd. and others v. Adani Power Rajasthan Limited and another***<sup>3</sup> (hereinafter referred to as “**Adani Rajasthan case**”) and ***MSEDCL v. APML & Ors.*** (supra).

**73.** He further submits that the delay in operationalization of the captive mines was not on account of any reason attributable to GKEL. He submits that, since the allotment of coal blocks was cancelled on account of the judgment of this Court in the case of ***Manohar Lal Sharma v. The Principal Secretary & Ors.***<sup>4</sup>, GKEL was also entitled for the benefit for the said period.

**74.** Insofar as Busy Season Surcharge is concerned, he submits that there is a concurrent finding of fact. He submits that, in any case, the said charges are issued by the Railway Board by issuing Notifications/Circulars. He submits that since the Railway is an instrumentality of the State, both the CERC and the learned APTEL have concurrently held that the Generator would be entitled to compensation on the ground of ‘Change in Law’.

<sup>3</sup> 2020 SCC Online SC 697

<sup>4</sup> (2014) 9 SCC 516 and 2014 (9) SCC 614



**Civil Appeal No. 39 of 2021**

**75.** This appeal filed by the DNH-DISCOM arises out of the judgment and order dated 13<sup>th</sup> October 2020, passed by the learned APTEL in Appeal No.283 of 2019 & I.A. Nos. 2188 & 1229 of 2019, thereby dismissing the said appeal arising out of the judgment and order passed by the CERC dated 16<sup>th</sup> May 2019.

**76.** The DNH-DISCOM had initiated a competitive bidding process through issuance of a Request for Proposal ("RFP" for short) in March 2012 for procurement of power on Long Term Basis under Case-1 bidding procedure. As per the RFP, the cut-off date was 1<sup>st</sup> June 2012.

**77.** The respondent-GWEL emerged as the successful bidder for supplying Aggregated Contracted Capacity of 200 MW at a levelized tariff of Rs.4.618 per Unit.

**78.** Accordingly, Letter of Intent (LoI) was issued by DNH-DISCOM on 14<sup>th</sup> August 2012. An application/petition being Petition No.87/2012 came to be filed before the Joint Electricity Regulatory Commission (hereinafter referred to as "Joint

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Commission”) for approval of the PPA and adoption of tariff. GWEL was also joined as a co-petitioner in the said Petition. The Joint Commission, vide order dated 19<sup>th</sup> February 2013, approved the PPA. Accordingly, the PPA came to be executed on 21<sup>st</sup> March 2013.

**79.** GWEL filed Petition No. 8/MP/2014 before the CERC seeking compensation on certain components on the ground of ‘Change in Law’. The same was decided by the CERC vide order dated 1<sup>st</sup> February 2017. Aggrieved thereby, both the appellant-DNH-DISCOM and the respondent-GWEL filed appeals before the learned APTEL. In appeal, the learned APTEL remanded the matter to the CERC vide order dated 14<sup>th</sup> August 2018 for considering certain issues. Being aggrieved by the order dated 14<sup>th</sup> August 2018, the appellant-DNH-DISCOM filed an appeal, being Civil Appeal No.11910 of 2018, before this Court. The said appeal is also being decided in the present batch of appeals, by this common judgment.



**80.** On remand, the CERC passed an order dated 16<sup>th</sup> May 2019 and allowed the claim of GWEL/Generator on the ground of 'Change in Law' occurring on account of the enforcement of the 'Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India' ("SHAKTI Policy" for short). Being aggrieved thereby, DNH-DISCOM had filed an appeal before the learned APTEL. As stated herein above, the same was dismissed by the learned APTEL vide the impugned judgment.

**81.** We have heard Mr. C.A. Sundaram, learned Senior Counsel appearing on behalf of the DNH-DISCOM and Mr. Niranjana Reddy, learned Senior Counsel appearing on behalf of the respondent-GWEL.

**82.** Mr. C.A. Sundaram submits that, from the presentation which was given by the GWEL, it was apparent that it was given on the basis that coal supply would be restricted only to 65%. He submits that, as such, the grant of benefit on account of 'Change in Law' on the ground that there was 100% assurance by CIL is



not permissible. He, therefore, submits that the judgment and order of the learned APTEL deserves to be set aside to that extent.

**83.** Mr. Niranjan Reddy, on the contrary, submits that the bid of GWEL was submitted on 8<sup>th</sup> June 2012, on which date NCDP 2007 was in force. He submits that, subsequently, the NCDP 2007 was modified on 31<sup>st</sup> July 2013 and thereafter SHAKTI Policy has come into effect on 22<sup>nd</sup> May 2017 and, as such, judgment and order of the learned APTEL warrants no interference.

**Civil Appeal No. 5005 of 2022 and Civil Appeal No. 4089 of 2022**

**84.** These appeals challenge the common judgment and order dated 22<sup>nd</sup> March 2022 passed by the learned APTEL in Appeal No. 118 of 2021 and 40 of 2022, filed by Rattan India Power Limited (hereinafter referred to as “Rattan India”) and Adani Power Maharashtra Limited (for short, “APML”) respectively, thereby challenging the orders dated 1<sup>st</sup> January 2019 and 3<sup>rd</sup> August 2018, passed by Maharashtra Electricity Regulatory



Commission (hereinafter referred to as 'MERC') in Case No. 227 of 2018 and Case No. 124 of 2018 respectively.

**85.** The facts in brief giving rise to the present appeals are as under:

Rattan India has entered into PPAs dated 22<sup>nd</sup> April 2010 and 5<sup>th</sup> June 2010 with MSEDCL for supply of 1200 MW aggregate power at levelized tariff of Rs.3.260 KWH for a period of 25 years. It filed a petition before MERC, being Case No. 227 of 2018, claiming compensation on the ground of 'Change in Law' occurring on account of the circular dated 19<sup>th</sup> December 2017 issued by CIL, vide which it levied the Evacuation Facility Charges (for short, "EFC"). The same was rejected by MERC, vide order dated 1<sup>st</sup> January 2019. A similar petition being Case No. 124 of 2018 was also filed by APML, raising a similar claim before MERC, which was also rejected by MERC, vide its earlier order dated 3<sup>rd</sup> August 2018.

**86.** Being aggrieved thereby, Rattan India had filed an Appeal No. 118 of 2021 and APML had preferred an Appeal No. 40 of

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2022. By the impugned order, the learned APTEL had held EFC imposed by CIL vide Circular dated 19<sup>th</sup> December 2017 to be a 'Change in Law' event and, accordingly, held the Generators to be entitled to compensation on the said ground. Being aggrieved thereby, the MSEDCL has preferred these appeals.

**87.** We have heard Shri Balbir Singh, learned Additional Solicitor General (for short, "ASG") and Shri G. Saikumar, learned counsel appearing on behalf of the appellant and Shri Sajan Poovayya, learned Senior Counsel for the respondents in Civil Appeal No. 5005 of 2022 and Shri Vishrov Mukherjee, learned counsel appearing on behalf of the respondents in Civil Appeal No. 4089 of 2022.

**88.** Shri Balbir Singh, relying on Clause 9.1 of the Coal Supply Agreement (for short, "CSA") dated 28<sup>th</sup> December 2012 entered into between Southeastern Coalfields Limited and APML, submitted that CSA defines as to what shall be the base price of coal. He submitted that Clause 9.2 of the said CSA specifically provides for other charges which are permissible. Relying on



Clause 9.4 of the CSA, he submitted that in all cases, the entire freight charges, irrespective of the mode of transportation of coal supplied, shall be borne by the purchaser. The learned ASG submitted that the EFC does not partake the character of a statutory levy. However, he submitted that, in any case, it does not have the force of law. He, therefore, submitted that APTEL has grossly erred in holding the circular of CIL dated 19<sup>th</sup> December 2017 to qualify as 'Change in Law'.

**89.** Shri Singh further submitted that the direction to pay the carrying cost at the rate provided for Late Payment Surcharge (for short, "LPS") is also not permissible in law. He submitted that this Court, in **Adani Rajasthan case** (supra), has directed the carrying cost to be paid at the rate of 9% and as such, in the present case, it ought to have been directed to be paid at the same rate.

**90.** Shri Singh also relies on the judgment of this Court in the case of **Ashoka Smokeless Coal India (P) Limited and Others**

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***v. Union of India and Others***<sup>5</sup> in support of the proposition that CIL is free to fix the price of coal and that the Union of India has no control over it.

**91.** Shri Poovayya, on the contrary, submitted that the levy is mandatory in nature. Unless the said levies are paid, the coal would not be supplied. He further submitted that since the CIL is an instrumentality of the Government, the order issued by it would amount to a law within the definition of “Law” as defined in the PPA. He further submitted that insofar as the carrying cost is concerned, there is a specific provision in the PPA in Article 11.8.3, which is binding on the parties. He submitted that on account of non-payment of the dues of the generating companies by DISCOMS, the generating companies are required to borrow the funds at the market rate and as such, applying the restitutionary principle, it is entitled to carrying cost as provided under the agreement.

<sup>5</sup> (2007) 2 SCC 640



### III. ADDITIONAL ISSUES

**92.** After hearing the learned counsel for the parties at length, we find that, apart from the three issues that were already decided by this Court in the case of **MSEDCL v. APML & Ors.** (supra), the issues as to whether the following components could be considered as 'Change in Law' events fall for consideration herein:

- (i) Busy Season Surcharge & Development Surcharge and Port Congestion Surcharge;
- (ii) MoEF Notification on coal quality;
- (iii) Shortfall in linkage coal due to Change in NCDP;
- (iv) Forest Tax;
- (v) Add on Premium price.
- (vi) Evacuation Facility Charges (EFC).

Apart from that, another question that requires consideration is, as to whether various taxes/charges imposed



by various State Governments would also fall under 'Change in Law' events or not.

The other question that requires considerations is, as to whether at what rate the Generators would be entitled to 'carrying cost'.

#### **IV. CONSIDERATION**

**93.** For appreciating the rival submissions, we will have to construe the term "Law", which has been defined in the PPAs, which reads thus:

"Law" means, in relation to this Agreement, all laws including Electricity Laws in force in India and any statute, ordinance, regulation, Notification or code, rule, or any interpretation of any of them by an Indian Governmental Instrumentality and having force of law and shall further include all applicable rules, regulations, orders, Notifications by an Indian Governmental Instrumentality pursuant to or under any of them and shall include all rules, regulations, decisions and orders of the CERC and the MERC."

**94.** Perusal of the definition of the term "Law" itself would clearly show that the term "Law" would mean all laws including

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Electricity Laws in force in India and any statute, ordinance, regulation, Notification or code, rule, or any interpretation of any of them by an Indian Governmental Instrumentality and having force of law. It would further reveal that the term “Law” shall also include all applicable rules, regulations, orders, Notifications by an Indian Governmental Instrumentality and shall also include all rules, regulations, decisions and orders of the CERC and the MERC.

**95.** In any case, the issue as to what would amount to “Law” is no more *res integra*. This Court, in the case of ***Energy Watchdog*** (supra), has observed thus:

“**57.** Both the letter dated 31-7-2013 and the revised Tariff Policy are statutory documents being issued under Section 3 of the Act and have the force of law. This being so, it is clear that so far as the procurement of Indian coal is concerned, to the extent that the supply from Coal India and other Indian sources is cut down, the PPA read with these documents provides in Clause 13.2 that while determining the consequences of change in law, parties shall have due regard to the principle that the purpose of compensating the party affected by such



change in law is to restore, through monthly tariff payments, the affected party to the economic position as if such change in law has not occurred. Further, for the operation period of the PPA, compensation for any increase/decrease in cost to the seller shall be determined and be effective from such date as decided by the Central Electricity Regulation Commission. This being the case, we are of the view that though change in Indonesian law would not qualify as a change in law under the guidelines read with the PPA, change in Indian law certainly would."

96. The aforesaid view of this Court taken in the case of **Energy Watchdog** (supra) has been approved by a Bench of three learned Judges of this Court in **Adani Rajasthan case** (supra) and also followed by this Court when the two linked matters out of this batch of appeals were decided by this Court in the case of **MSEDCL v. APML & Ors.** (supra). It cannot be denied that CIL is an instrumentality of the Government of India and its orders, insofar as price of fuel are concerned, are binding on all its subsidiaries.

97. It will further be relevant to refer to Clause 9.0 of the CSA, which reads thus:

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## **“9.0 PRICE OF COAL:**

The “As Delivered Price of Coal” for the Coal supplies pursuant to this Agreement shall be the sum of Base Price, Other Charges and Statutory Charges, as applicable at the time of delivery of Coal.”

It is thus clear that price of coal includes the sum of base price, other charges and statutory charges as applicable at the time of delivery of coal.

**98.** As discussed herein above, the term ‘Law’ would also include all applicable rules, regulations, orders, Notifications issued by an Indian Governmental Instrumentality.

**99.** It would thus be clear that all such additional charges which are payable on account of orders, directions, Notifications, Regulations, etc., issued by the instrumentalities of the State, after the cut-off date, will have to be considered to be ‘Change in Law’ events. The Generators would be entitled to compensation on the restitutionary principle on such changes occurring after the cut-off date.



**100.** Having held thus, we will now consider some of the components which are common in most of these appeals.

**Busy Season Surcharge, Development Surcharge And Port Congestion Surcharge**

**101.** Insofar as increase in Busy Season Surcharge, Development Surcharge on transportation of coal, and Port Congestion Surcharge by the Indian Railways are concerned, the learned APTEL had found that the Indian Railways is an instrumentality of the State. It has been found that the Busy Season Surcharge, Development Surcharge and Port Congestion Surcharge were increased from time to time vide Circulars/Notifications issued by the Ministry of Railways, through the Railway Board.

**102.** A Constitution Bench of this Court, in the case of ***Railway Board, Government of India v. M/s Observer Publications (P) Ltd.***<sup>6</sup>, has held the Railway Board to be a State within the meaning of Article 12 of the Constitution of India.

<sup>6</sup> (1972) 2 SCC 266



**103.** As such, no error could be found in the finding of the learned APTEL that the revision of charges to be paid on Busy Season Surcharge, Development Surcharge and Port Congestion Charges from time to time by the 'Railway Board' would come within the ambit of 'Change in Law'.

**MoEF Notification on Coal Quality**

**104.** Insofar as MoEF notification on coal quality is concerned, the MoEF, vide Notification dated 2<sup>nd</sup> January 2014, i.e. subsequent to the particular cut-off date, i.e. 1<sup>st</sup> June 2012, has mandated power projects to use beneficiated coal with ash content lower than 34%. The draft notification of MoEF dated 11<sup>th</sup> July 2012 culminated into the final Notification dated 2<sup>nd</sup> January 2014. By no stretch of imagination, can it be said that MoEF is not an instrumentality of the State.

**105.** By the said Notification, MoEF has mandated power projects to use beneficiated coal with ash content lower than 34%. Admittedly, prior to the cut-off date, the same was not a requirement. It is thus clear that the said Notifications dated 11<sup>th</sup>

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July 2012 and 2<sup>nd</sup> January 2014 would amount to "Change in Law". As such, no fault can be found with the finding of the learned APTEL that the same would amount to 'Change in Law'.

**Shortfall in Linkage Coal due to Change in NCDP**

**106.** Insofar as shortfall in linkage coal due to changes in the NCDP issued by the Ministry of Coal ("MoC" for short) is concerned, the issue is no more *res integra*. This Court in the case of **Energy Watchdog** (supra) so also in **Adani Rajasthan case** (supra) and recently in **MSEDCL v. APML & Ors.** (Supra) has held that the change in NCDP would amount to 'Change in Law'.

**Forest Tax**

**107.** Insofar as Forest Tax is concerned, perusal of the material placed on record would reveal that, as on the cut-off date, there was no Forest Tax applicable on coal mined and transported from South Eastern Coalfields Limited ("SECL" for short) mines located in Forest area. For the first time, vide Notification of the Chhattisgarh State Government, Department of Forest, under

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the provisions of Chhattisgarh Transit (Forest Produce Rule) 2001, a fee at the rate of Rs.7 per ton was levied. Undisputedly, the said Notification is issued by the Forest Department of the Government of Chhattisgarh, which is an instrumentality of the State. As such, no error can be found with the finding of the learned APTEL in that regard.

**Add on Premium Price**

**108.** Insofar as 'Add on premium price' is concerned, undisputedly, 'add on premium' was required to be paid on account of cancellation of captive coal blocks and inordinate delay on account of Go-No-Go policy. As such, it cannot be said that the reasoning adopted by the learned APTEL is perverse and arbitrary.

**Evacuation Facility Charges (EFC)**

**109.** Undisputedly, EFC was imposed by CIL vide its Circular dated 19<sup>th</sup> December 2017.

**110.** As already discussed herein above, CIL is an instrumentality of the State. It is thus clear that, on the cut-off



date, there was no requirement of EFC, which has been brought into effect only on 19<sup>th</sup> December 2017. As such, the circular of CIL dated 19<sup>th</sup> December 2017 would also amount to 'Change in Law'.

**111.** As discussed herein above, it is also not in dispute that EFC has been paid by the generators while paying the base price, other charges and statutory charges at the time of delivery of coal. As such, no interference would be warranted with the said finding.

**112.** That leaves us with the issue with regard to carrying cost.

**Carrying Cost**

**113.** This is the issue on which there is a serious contest between the DISCOMS and the Generators.

**114.** On one hand, it is the submission of the DISCOMS that since there is no description of the same in the PPAs, the rate for granting carrying cost should be a reasonable rate. On the contrary, it is the submission of the Generators that there is a specific provision in the PPAs, which provides that the carrying



cost has to be paid at the rate as per the rate specified for late payment surcharge. It is submitted that this is provided in the PPA so as to give effect to the restitutionary principle.

**115.** For considering the rival submissions, it will be apposite to refer to the following Articles, which are almost common in most of the PPAs.

**“11. *Billing and payment.*—**

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**11.3. *Payment of monthly bills.*—**

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**11.3.4.** In the event of delay in payment of a monthly bill by any procurer beyond its due date, a late payment surcharge shall be payable by the procurer to the seller at the rate of two (2) per cent in excess of the applicable SBAR per annum, on the amount of outstanding payment, calculated on a day to day basis (and compounded with monthly rest), for each day of the delay.

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**11.8. *Payment of supplementary bill.*—**

**11.8.1.** Either party may raise a bill on the other party (“supplementary bill”) for payment on account of:

- (i) Adjustments required by the Regional Energy Account (if applicable);
- (ii) Tariff payment for change in parameters, pursuant to provisions in Schedule 5; or

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(iii) Change in law as provided in Article 13 and such Bill shall be paid by the other party.

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**11.8.3.** In the event of delay in payment of a supplementary bill by either party beyond one month from the date of billing, a late payment surcharge shall be payable at same terms applicable to the monthly bill in Article 11.3.4.”

**116.** A perusal of Article 11.3.4 of the PPA would reveal that in the event of delay in payment of a monthly bill by any procurer beyond its due date, a late payment surcharge shall be payable by the procurer to the seller at the rate of 2% in excess of the applicable State Bank Advance Rate (“SBAR” for short) per annum, on the amount of outstanding payment, calculated on a day to day basis (and compounded with monthly rest), for each day of the delay. Article 11.8 of the PPA deals with Payment of Supplementary Bill. It enables either party to raise a supplementary bill on the other party for payment on account of certain events. Clause (iii) of Article 11.8.1 of the PPA deals with ‘Change in Law’ as provided in Article 13. It requires the bill to

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be paid by the other party. Article 11.8.3 of the PPA also provides that in the event of delay in payment of a supplementary bill by either party beyond one month from the date of billing, a late payment surcharge shall be payable at same terms applicable to the monthly bill in Article 11.3.4.

117. This Court in the case of ***Uttar Haryana Bijli Vitran Nigam Limited (UNHVNL) and another v. Adani Power Limited and others***<sup>7</sup>, after considering the provisions of Article 11, which deals with 'Billing' and Article 13, which deals with 'Change in Law', has observed thus:

“9. It will be seen that Article 13.4.1 makes it clear that adjustment in monthly tariff payment on account of change in law shall be effected from the date of the change in law [see sub-clause (i) of clause 4.1], in case the change in law happens to be by way of adoption, promulgation, *amendment*, re-enactment or repeal of the law or change in law. As opposed to this, if the change in law is on account of *a change in interpretation of law* by a judgment of a Court or Tribunal

<sup>7</sup> (2019) 5 SCC 325



or governmental instrumentality, the case would fall under sub-clause (ii) of clause 4.1, in which case, the monthly tariff payment shall be effected from the date of the said order/judgment of the competent authority/Tribunal or the governmental instrumentality. What is important to notice is that Article 13.4.1 is subject to Article 13.2 of the PPAs.

**10.** Article 13.2 is an in-built restitutionary principle which compensates the party affected by such change in law and which must restore, through monthly tariff payments, the affected party to the same economic position as if such change in law has not occurred. This would mean that by this clause a fiction is created, and the party has to be put in the same economic position as if such change in law has not occurred i.e. the party must be given the benefit of restitution as understood in civil law. Article 13.2, however, goes on to divide such restitution into two separate periods. The first period is the “construction period” in which increase/decrease of capital cost of the project in the tariff is to be governed by a certain formula. However, the seller has to provide to the procurer documentary proof of such increase/decrease in capital



cost for establishing the impact of such change in law and in the case of dispute as to the same, a dispute resolution mechanism as per Article 17 of the PPA is to be resorted to. It is also made clear that compensation is only payable to either party only with effect from the date on which the total increase/decrease exceeds the amount stated therein.

**11.** So far as the “operation period” is concerned, compensation for any increase/decrease in revenues or costs to the seller is to be determined and effected from such date as is decided by the appropriate Commission. Here again, this compensation is only payable for increase/decrease in revenue or cost to the seller if it is in excess of an amount equivalent to 1% of the Letter of Credit in aggregate for a contract year. What is clear, therefore, from a reading of Article 13.2, is that restitutionary principles apply in case a certain threshold limit is crossed in both sub-clauses (a) and (b). There is no dispute that the present case is covered by sub-clause (b) and that the aforesaid threshold has been crossed. The mechanism for claiming a change in law is then set out by Article 13.3 of the PPA.”



**118.** It could thus be seen that this Court has held that insofar as the “operation period” is concerned, compensation for any increase/decrease in revenues or costs to the seller is to be determined and effected from such date as is decided by the appropriate Commission. It has further been held that the compensation is only payable for increase/decrease in revenue or cost to the seller if it is in excess of an amount equivalent to 1% of the Letter of Credit in aggregate for a contract year. It has been held that restitutionary principles apply in case a certain threshold limit is crossed. It has been held that an in-built restitutionary principle compensates the party affected by such ‘Change in Law’ and the affected party must be restored through monthly tariff payment to the same economic position as if such ‘Change in Law’ had not occurred.

**119.** From the perusal of paragraph 9, it would also be clear that in case the ‘Change in Law’ happens to be by way of adoption, promulgation, amendment, re-enactment or repeal of the law or



'Change in Law', it has to be effected from the date on which such change occurs.

**120.** In this respect, it will also be apposite to refer to the following observations of this Court in the case of ***Maharashtra State Electricity Distribution Company Limited v. Maharashtra Electricity Regulatory Commission and Others***<sup>8</sup>:

**"173.** The APTEL correctly found that: (Maharashtra Pradesh Electricity Regulatory Commission case [Maharashtra State Electricity Distribution Co. Ltd. v. Maharashtra Pradesh Electricity Regulatory Commission, 2021 SCC OnLine APTEL 13] , SCC OnLine APTEL para 13)

*"13. ... On the contrary, there is a conscious exclusion regarding any suo motu change in the rate to be applied while calculating LPS, it being incorrect to argue on the assumption that the contract permits automatic change in system."*

(emphasis supplied)

<sup>8</sup> (2022) 4 SCC 657



**174.** This Court is unable to accept Mr Singh's submission that the conclusion of APTEL that LPS is not tariff is erroneous. The meaning of the expression tariff has to be considered, and has rightly been considered by APTEL in the context of the relevant provision of the power purchase agreements. The dictionary meaning of tariff may be charge. However, in Article 13 of the Stage 1 and Article 10 of the Stage 2 power purchase agreements, tariff means monthly tariff and tariff adjustment consequential to change in law, is of monthly tariff in respect of supply of electricity.

**175.** As argued by the respondent power generating companies appearing through Mr Rohatgi, Mr Singhvi, Mr Mukherjee and Ms Anand respectively, LPS is only payable when payment against monthly bills is delayed and not otherwise.

**176.** The object of LPS is to enforce and/or encourage timely payment of charges by the procurer i.e. the appellant. In other words, LPS dissuades the procurer from delaying payment of charges. The rate of LPS has no bearing or impact on tariff. Changes in the basis of the rates of LPS do not affect the rate at which power was agreed to be sold and purchased under the power purchase agreements. The principle of restitution

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under the change in law provisions of the power purchase agreements are attracted in respect of tariff.

**177.** LPS cannot be equated with carrying cost or actual cost incurred for the supply of power. The appellant has a contractual obligation to make timely payment of the invoices raised by the power generating companies, subject, of course, to scrutiny and verification of the same. Mr Mukul Rohatgi has a point that if the funding cost was so much lesser than the rate of LPS, as contended by the appellant, the appellant could have raised funds at a lower rate of interest, made timely payment of the invoices raised by the power generating companies, and avoided LPS.

**178.** The proposition that courts cannot rewrite a contract mutually executed between the parties, is well settled. The Court cannot, through its interpretative process, rewrite or create a new contract between the parties. The Court has to simply apply the terms and conditions of the agreement as agreed between the parties, as observed by this Court in *Shree Ambica Medical Stores v. Surat People's Coop. Bank* [*Shree Ambica Medical Stores v. Surat People's Coop. Bank Ltd.*, (2020) 13 SCC 564, para 20] , cited by Ms Divya Anand. This

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appeal is an attempt to renegotiate the terms of the PPA, as argued by Ms Divya Anand as also other counsel. It is well settled that courts cannot substitute their own view of the presumed understanding of commercial terms by the parties, if the terms are explicitly expressed. The explicit terms of a contract are always the final word with regard to the intention of the parties, as held by this Court in *Nabha Power Ltd. v. Punjab SPCL* [*Nabha Power Ltd. v. Punjab SPCL*, (2018) 11 SCC 508, paras 45 and 72 : (2018) 5 SCC (Civ) 1], cited by Ms Anand.”

**121.** This Court has clearly held that the DISCOMS have a contractual obligation to make timely payment of the invoices raised by the power generating companies, subject to scrutiny and verification of the same. This Court has rejected the contention that the funding cost was much lesser than the rate of LPS. This Court has reiterated the proposition that the courts cannot rewrite a contract which is executed between the parties. This Court has emphasized that it cannot substitute its own view of the presumed understanding of commercial terms by the parties, if the terms are explicitly expressed. It has been held that



the explicit terms of a contract are always the final word with regard to the intention of the parties.

**122.** As already discussed hereinabove, Article 11.8 of the PPA entitles either party to raise a supplementary bill on the other party on account of 'Change in Law' as provided in Article 13 and such bills are required to be paid by the either party. Article 11.8.3 of the PPA specifically provides that in the event of delay in payment of a supplementary bill by either party beyond one month from the date of billing, a late payment surcharge shall be payable at the same terms applicable to the monthly bill in Article 11.3.4. Article 11.3.4 of the PPA specifically provides a late payment surcharge to be paid by the procurer to the seller at the rate of 2% in excess of the applicable SBAR per annum on the amount of outstanding payment calculated on day to day basis (and compounded with monthly rest), for each day of the delay.

**123.** Recently, this Court, in the case of ***Uttar Haryana Bijli Vitran Nigam Limited and Another v. Adani Power (Mundra)***

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**Limited and Another<sup>9</sup>**, had an occasion to consider the similar issue. The Court observed thus:

“20. It is clear that the restitutionary principles encapsulated in Article 13.2 would take effect for computing the impact of change in law. We see no reason to interfere with the impugned judgment [*Adani Power (Mundra) Ltd. v. CERC*, 2021 SCC OnLine APTEL 67] , wherein it has been held by the Appellate Tribunal that Respondent 1 Adani Power had started claiming change in law event compensation in respect of installation of FGD unit along with carrying cost, right from the year 2012 and that it has approached several fora to get this claim settled. Respondent 1 Adani Power finally succeeded in getting compensation towards FGD unit only on 28-3-2018, but the carrying cost claim was denied. The relief relating to carrying cost was granted to Respondent 1 Adani Power by the Appellate Tribunal vide order dated 13-4-2018 [*Adani Power Ltd. v. CERC*, 2018 SCC OnLine APTEL 5] which was duly tested by this Court and upheld on 25-2-2019 [*Uttar Haryana Bijli Vitran Nigam Ltd. v. Adani Power Ltd.*, (2019) 5 SCC 325 : (2019) 2 SCC (Civ) 657] . Once carrying cost has been granted in favour of Respondent 1 Adani Power, it cannot be urged by the appellants that interest on carrying cost should be calculated on simple interest basis instead of

<sup>9</sup> (2023) 2 SCC 624



compound interest basis. Grant of compound interest on carrying cost and that too from the date of the occurrence of the change in law event is based on sound logic. The idea behind granting interest on carrying cost is not far to see, it is aimed at restituting a party that is adversely affected by a change in law event and restore it to its original economic position as if such a change in law event had not taken place.

xxx xxx xxx

**23.** We are not persuaded by the submission made on behalf of the appellants that since no fault is attributable to them for the delay caused in determination of the amount, they cannot be saddled with the liability to pay interest on carrying cost; nor is there any substance in the argument sought to be advanced that there is no provision in the PPAs for payment of compound interest from the date when the change in law event had occurred.

**24.** The entire concept of restitutionary principles engrained in Article 13 of the PPAs has to be read in the correct perspective. The said principle that governs compensating a party for the time value for money, is the very same principle that would be invoked and applied for grant of interest on carrying cost on account of a change in law event. Therefore, reliance on Article 11.3.4 read with Article 11.8.3 on the part of the

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appellants cannot take their case further. Nor does the decision in *Priya Vart case* [*Priya Vart v. Union of India*, (1995) 5 SCC 437] have any application to the facts of the present case as the said case relates to payment of compensation under the Land Acquisition Act and the interest that would be payable in case of delayed payment of compensation.”

**124.** It is thus clear that this Court has reiterated that once carrying cost has been granted, it cannot be urged that interest on carrying cost should be calculated on simple interest basis instead of compound interest basis. It has been held that grant of compound interest on carrying cost and that too from the date of the occurrence of the ‘Change in Law’ event is based on sound logic. It has been held that it is aimed at restituting a party that is adversely affected by a ‘Change in Law’ event and restore it to its original economic position as if such a ‘Change in Law’ event had not taken place.

**125.** The argument that there is no provision in the PPAs for payment of compound interest from the date when the ‘Change



in Law' event had occurred, has been specifically rejected by this Court.

**126.** In view of this consistent position of law and application of restitutionary principles and privity of contractual obligations between the parties as contained in the PPAs, we do not find that the view taken by the learned APTEL with regard to carrying cost warrants interference.

**Concurrent Finding of Fact**

**127.** Apart from the aforesaid issues, there is one another common thread in all these appeals. Many of these appeals arise out of concurrent findings recorded by the Central/State Electricity Regulatory Commissions and the learned APTEL.

**128.** This Court, in the case of **MSEDCL v. APML & Ors.** (supra), after considering the statutory provisions in the Electricity Act, 2003, held that the CERC, SERCs and the learned APTEL are bodies consisting of experts in the field.

**129.** This Court, in the said case, observed thus:

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**“120.** It could thus be seen that two expert bodies i.e. the CERC and the learned APTEL have concurrently held, after examining the material on record, that the factors of SHR and GCV should be considered as per the Regulations or actuals, whichever is lower. The CERC as well as the State Regulatory bodies, after extensive consultation with the stakeholders, had specified the SHR norms in respective Tariff Regulations. In addition, insofar as GCV is concerned, the CEA has opined that the margin of 85-100 kcal/kg for a non-pit head station may be considered as a loss of GCV measured at wagon top till the point of firing of coal in boiler.

**121.** In this respect, we may refer to the following observations of this Court in the case of *Reliance Infrastructure Limited v. State of Maharashtra* [(2019) 3 SCC 352].

**“38.** MERC is an expert body which is entrusted with the duty and function to frame regulations, including the terms and conditions for the determination of tariff. The Court, while exercising its power of judicial review, can step in where a case of manifest unreasonableness or arbitrariness is made out. Similarly, where the delegate of the legislature has

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failed to follow statutory procedures or to take into account factors which it is mandated by the statute to consider or has founded its determination of tariffs on extraneous considerations, the Court in the exercise of its power of judicial review will ensure that the statute is not breached. However, it is no part of the function of the Court to substitute its own determination for a determination which was made by an expert body after due consideration of material circumstances.

39. In *Assn. of Industrial Electricity Users v. State of A.P.* [*Assn. of Industrial Electricity Users v. State of A.P.*, (2002) 3 SCC 711] a three-Judge Bench of this Court dealt with the fixation of tariffs and held thus : (SCC p. 717, para 11)

“11. We also agree with the High Court [*S. Bharat Kumar v. State of A.P.*, 2000 SCC OnLine AP 565 : (2000) 6 ALD 217] that the judicial review in a matter with regard to fixation of tariff has not to be as that of an appellate authority in exercise of its jurisdiction under Article 226 of the Constitution. All that the High Court has to be satisfied with is that the Commission has followed the proper procedure and



unless it can be demonstrated that its decision is on the face of it arbitrary or illegal or contrary to the Act, the court will not interfere. Fixing a tariff and providing for cross-subsidy is essentially a matter of policy and normally a court would refrain from interfering with a policy decision unless the power exercised is arbitrary or *ex facie* bad in law.”

**XXX XXX XXX**

**123.** Recently, the Constitution Bench of this Court in the case of *Vivek Narayan Sharma v. Union of India* [2023 SCC OnLine SC 1] has held that the Courts should be slow in interfering with the decisions taken by the experts in the field and unless it is found that the expert bodies have failed to take into consideration the mandatory statutory provisions or the decisions taken are based on extraneous considerations or they are *ex facie* arbitrary and illegal, it will not be appropriate for this Court to substitute its views with that of the expert bodies.”

**130.** As is indicated in the aforesaid judgments, this Court should be slow in interfering with the concurrent findings of fact

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unless they are found to be perverse, arbitrary and either in ignorance of or contrary to the statutory provisions.

## **V. CONCLUSION**

**131.** In the light of our aforesaid findings, we will now consider each of the appeals independently.

### **Civil Appeal No. 11095 of 2018 and Civil Appeal Nos. 11910-11911 of 2018**

**132.** In these batch of appeals, insofar as the appeal of DNH-DISCOM is concerned, they are aggrieved by the order of the learned APTEL allowing Busy Season Surcharge and Development Surcharge, MoEF Notification on coal quality and Change in NCDP. They are also aggrieved by the finding of the learned APTEL with regard to carrying cost.

**133.** Insofar as the compensation on the ground of Change in NCDP is concerned, as already discussed, the same is squarely covered by the judgment of this Court in the case of **MSEDCL v. APML & Ors.** (supra)

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**134.** Insofar as the Busy Season Surcharge and Development Surcharge are concerned, they are issued under the Circulars/Notifications of Indian Railways. The notification on coal quality is issued by MoEF. All these are the instrumentalities of the State, and these would, therefore, amount to 'Change in Law'.

**135.** Insofar as rest of the claims, which are concurrently allowed and disallowed by both the CERC and the learned APTEL, are concerned, in view of the judgments of this Court on this issue, as stated above, we do not find any reason to interfere with the same, not noticing any perversity, arbitrariness and/or any contravention of the statutory provisions. The appeals of both the Generator and the DNH-DISCOM are, therefore, liable to be dismissed.

**Civil Appeal Nos.4628-4629 of 2021**

**136.** The learned APTEL allowed the claim of the Generator only on the ground of Busy Season Surcharge and Development Surcharge on transportation of coal, and the Carrying Cost.

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**137.** In view of our finding on the issues as above, no error can be found with the finding of the learned APTEL in that regard. We find no merit in the appeals. The appeals are, accordingly, liable to be dismissed.

**Civil Appeal Nos. 12055-12056 of 2018**

**138.** The issue of Busy Season Surcharge, Development Surcharge and Port Congestion Surcharge have already been considered by us herein above. All these are charges under the Notifications issued by the Indian Railways, through the Railway Board. As such, no error can be found with the finding of the learned APTEL that they would amount to 'Change in Law' events.

**139.** Insofar as levy of 'Forest Tax' is concerned, the same is levied by the State Government under the statutory provisions.

**140.** The issue with regard to 'Carrying Cost' has also been discussed by us herein above.



**141.** In that view of the matter, we do not find any reason to interfere with the order of the learned APTEL. The appeals are, accordingly, liable to be dismissed.

**Civil Appeal Nos. 2935-2936 of 2020**

**142.** In addition to the 'Change in Law' benefits granted by the State Commission, 'Coal Terminal Surcharge', 'Chhattisgarh Paryavaran Upkar' and 'Chhattisgarh Vikas Upkar' were also considered to be 'Change in Law' events by the learned APTEL.

**143.** The 'Coal Terminal Surcharge' was levied by the Indian Railways subsequent to the cut-off date. Similarly, the Government of Chhattisgarh, under Section 8 of the Chhattisgarh Adhoshanrachna Vikas Evam Paryavaran Upkar Adhiniyam, 2005, vide Notification dated 16<sup>th</sup> June 2015, which is admittedly after the cut-off date, introduced 'Chhattisgarh Paryavaran Upkar' and 'Chhattisgarh Vikas Upkar'. Even the Change in Swacch Bharat Cess at the rate of 0.5% on Service Tax for Operation Period and Change in Krishi Kalyan Cess at the rate of 5% on Service Tax for Operation Period, which had been



granted concurrently by the State Commission and the learned APTEL, were notified by the Union of India after the cut-off date.

**144.** It could thus be seen that all these additional taxes or cesses were introduced by the instrumentalities of the Government of India or by the Government of Chhattisgarh. The same are issued under the provisions of the concerned statutes, rules, notifications, orders, etc. It is thus clear that they would amount to 'Law' within the meaning of the term 'Law' as defined in the PPAs. As such, no error can be found with the order of the learned APTEL.

**145.** We, therefore, find no merit in the appeals. The appeals are, accordingly, liable to be dismissed.

**Civil Appeal No. 3123 of 2019 and Civil Appeal No.5372 of 2019**

**146.** In the present matter, in addition to the claims granted by the CERC, the learned APTEL also granted the following claims:

- (i) Change in NCDP (cancellation of Captive Block vis-à-vis tapering linkage),



- (ii) Busy Season Surcharge and Developmental Surcharge,
- (iii) Carrying Cost; and
- (iv) Add on Premium Price.

**147.** Insofar as the issue with regard to change in NCDP is concerned, this Court in the case of ***Energy Watchdog*** (*supra*) so also in ***Adani Rajasthan case*** (*supra*) and recently in ***MSEDCL v. APML & Ors.*** (*Supra*) has held that the change in NCDP would amount to 'Change in Law'. As such, the finding in that regard warrants no interference.

**148.** Insofar as Busy Season Surcharge and Development Surcharge are concerned, we have already discussed hereinabove as to how it would amount to 'Change in Law'.

**149.** Insofar as 'Add on premium price' is concerned, undisputedly, 'add on premium' was required to be paid on account of cancellation of captive coal blocks and inordinate delay on account of Go-No-Go policy. As such, it cannot be said that the reasoning adopted by the learned APTEL is perverse and arbitrary.



**150.** Insofar as the issue with regard to 'carrying cost' is concerned, we have already discussed the issue at length in the foregoing paragraphs. As such, no interference is warranted on that finding also.

**151.** Insofar as other claims which were concurrently allowed and disallowed by the CERC and the learned APTEL are concerned, in view of the concurrent findings, we are not inclined to interfere with the same.

**152.** The appeals of both DISCOMS as well as Generating Companies are, therefore, liable to be dismissed.

**Civil Appeal No. 6641 of 2019**

**153.** This appeal is filed by GKEL, being aggrieved by the concurrent denial of benefits on certain components.

**154.** As already discussed herein above by us, in view of the concurrent findings recorded by the CERC as well as the learned APTEL for disallowing the claims, we are not inclined to interfere with the same. The appeal is, accordingly, liable to be dismissed.



**Civil Appeal Nos. 5583-5584 of 2021**

**155.** In the present case, the benefit is granted on following grounds:

- (i) Shortfall in domestic coal on account of Change in NCDP;
- (ii) Add on premium on account of existing tapering linkage by three years;
- (iii) Busy Season Surcharge

**156.** The first issue stands covered by the judgments of this Court in the cases of ***Energy Watchdog*** (supra), ***Adani Rajasthan case*** (supra) and ***MSEDCL v. APML & Ors.*** (supra) and as such, no interference is warranted.

**157.** Insofar as Busy Season Surcharge is concerned, apart from there being concurrent findings of facts, we have already given reasons herein above as to how the same would amount to 'Change in Law'.

**158.** We do not find any merit in the appeals. The same are, accordingly, liable to be dismissed.



**Civil Appeal No. 39 of 2021**

**159.** The CERC has granted benefit on the following grounds.

- i. Shortfall in linkage coal on account of NCDP 2013 and SHAKTI Policy;
- ii. Change in coal quality pursuant to amendment of the Environment (Protection) Rules, 1986;
- iii. Increase in Busy Season Surcharge and Development Surcharge on transportation of coal by Indian Railways; and
- iv. Carrying cost on allowed 'Change in Law' claims.

**160.** The view taken by the CERC has been affirmed by the learned APTEL. As such, the appeal arises out of the concurrent findings of fact.

**161.** Insofar as first issue with regard to benefit of 'Change in Law' event on account of NCDP 2013 is concerned, the same is squarely covered by the judgments of this Court in the cases of

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***Energy Watchdog*** (supra), ***Adani Rajasthan case*** (supra) and ***MSEDCL v. APML & Ors.*** (supra).

**162.** Insofar as the benefit of 'Change in Law' on account of SHAKTI Policy is concerned, it is covered by the judgment and order of the even date of this Court in the case of Civil Appeal No. 5684 of 2021<sup>10</sup> and in the case of Civil Appeal Nos. 677-678 of 2021<sup>11</sup>.

**163.** The other components, i.e. change in coal quality pursuant to amendment of the Environment (Protection) Rules, 1986, and increase in Busy Season Surcharge and Development Surcharge on transportation of coal by Indian Railways, have already been considered by us herein to amount to 'Change in Law' events. We have also considered the issue regarding 'Carrying Cost'. As such, no interference is warranted in the concurrent findings by the learned APTEL, especially in view of the judgments of this Court. The appeal is, accordingly, liable to be dismissed.

<sup>10</sup> *Uttar Haryana Bijli Vitran Nigam Limited and another v. Adana Power (Mundra) Limited and another*

<sup>11</sup> *Maharashtra State Electricity Distribution Company Limited v. Adani Power Maharashtra Limited and another*



**Civil Appeal No. 5005 of 2022 and Civil Appeal No. 4089 of 2022**

**164.** The appeals are filed being aggrieved by the order of the learned APTEL granting compensation on account of 'EFC' and 'carrying cost'.

**165.** Undisputedly, the EFC was imposed by CIL vide its Circular dated 19<sup>th</sup> December 2017.

**166.** As discussed herein above, it is not in dispute that EFC has been paid by the Generators while paying the base price, other charges and statutory charges at the time of delivery of coal. As such, no interference is warranted with the said finding.

**167.** Insofar as 'carrying cost' is concerned, we have elaborately discussed the said issue herein above. As such, no interference, therefore, is warranted on the said issue also.

**168.** We do not find any merit in the appeals. The same are, accordingly, liable to be dismissed.



## **VI. EPILOGUE**

**169.** Before we part with the judgment, we must note that we have come across several appeals in the present batch which arise out of concurrent findings of fact arrived at by two statutory bodies having expertise in the field. We have also found that in some of the matters, the appeals have been filed only for the sake of filing the same. We also find that several rounds of litigation have taken place in some of the proceedings.

**170.** Recently, this Court, in the case of **MSEDCL v. APML & Ors.** (supra), has noted that one of the reasons for enacting the Electricity Act, 2003 was that the performance of the Electricity Boards had deteriorated on account of various factors. The Statement of Objects and Reasons of the Electricity Act, 2003 would reveal that one of the main features for enactment of the Electricity Act was delicensing of generation and freely permitting captive generation. In the said judgment, we have recorded the statement of the learned Attorney General made in the case of **Energy Watchdog** (supra) that the electricity sector, having been



privatized, had largely fulfilled the object sought to be achieved by the Electricity Act. He had stated that delicensed electricity generation resulted in production of far greater electricity than was earlier produced. The learned Attorney General had further urged the Court not to disturb the delicate balance sought to be achieved by the Electricity Act, i.e. that the producers or generators of electricity, in order that they set up power plants, be entitled to a reasonable margin of profit and a reasonable return on their capital, so that they are induced to set up more and more power plants. At the same time, the interests of the end consumers also need to be protected.

**171.** However, we find that, in spite of this position, litigations after litigations are pursued. Though the concurrent orders of statutory expert bodies cannot be said to be perverse, arbitrary or in violation of the statutory provisions, the same are challenged.

**172.** It will be relevant to note the following observations of the CERC in its judgment and order dated 16<sup>th</sup> May 2019, passed in

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Location: NTPC Ltd



Petition No. 8/MP/2014, which falls for consideration in Civil Appeal No. 39 of 2021 before this Court:

“(d) Approaching the Commission every year for allowance of compensation for such Change in Law is a time-consuming process. Accordingly, the mechanism prescribed above may be adopted for payment of compensation due to Change in Law events allowed as per PPA for the subsequent period as well.”

**173.** It will also be relevant to refer to some of the observations of the learned APTEL in its order dated 21<sup>st</sup> December 2021, which falls for consideration in Civil Appeal No.2908 of 2022 before this Court, which read thus:

“115. The Standing Committee of Parliament in its Report (dated 07.03.2018) on Energy titled ‘*Stressed/ Non-Performing Assets in Electricity Sector*’ has recognized the financial stress faced by generating companies on account of delay in recovery of Change in Law compensations and has recommended thus:

*“The Committee, therefore, recommend that appropriate steps should be taken to ensure that **there should be consistency and uniformity with***

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regard to orders emanating from the status of change in law. Provisions should also be made for certain percentage of payments of regulatory dues to be paid by Discoms in case the orders of regulators are being taken to APTEL/ higher judiciary for their consideration and decision”

116. The Report lays stress on the obligation of the distribution companies to pay the approved Change in Law compensation even while Regulatory Commission's orders are challenged. ***The Policy directive dated 27.08.2018 issued in terms of Section 107 of the Electricity Act, 2003 by the Ministry of Power (MoP) to the CERC emphasized on the need to ensure expeditious recovery of Change in Law compensation. The desirability of this was recognized by this tribunal in its judgment dated 14.09.2019 in Jaipur Vidyut Vitran Nigam Limited vs. RERC & Ors, 2019 SCC Online APTEL 98. It is against such backdrop that Electricity (Timely Recovery of Costs due to Change in Law) Rules, 2021, notified by MoP on 22.10.2021, providing for timely recovery of compensation on account of occurrence of Change in Law events have been framed. The MoP, vide notification dated 09.11.2021, put in public domain the policy directive***



on “Automatic pass through of the fuel and power procurement cost in tariff for ensuring the viability of the power” recognizing that in order to ensure that the power sector does not face any constraints in maintaining assured power supply to meet the demand, all the stakeholders in the value chain of power sector must ensure that there is timely recovery of cost. This involves the cost pass through by the generating companies to the distribution companies.

117. In sharp contrast, it is seen from the factual narrative of the events leading to the appeal at hand that the appellants (Haryana Utilities) have been adopting dilatory tactics which not only defeats the public policy but also has the undesirable fall-out of adding to the burden of the end-consumers they profess to serve on account of increasing Carrying Cost.
118. Concededly, in compliance with the Taxes and Duties Order dated 06.02.2017, the appellants paid to the generator the taxes and duties for certain period but, thereafter, unilaterally withheld such claims, raising issues (found merit-less) regarding IPT of coal for first time in January 2018. It is after the impugned order was passed that the appellants are stated to have started complying, to an



extent, by making payments. It is the case of the first respondent that the appellants have withheld past payments including towards taxes and duties its entitlement to recover corresponding Late Payment Surcharge ("LPS") being over and above the same to be computed after discharge of the former liability. **We agree that such withholding is in violation of Articles 11.3.2 and 11.6.9 of the PPAs (quoted earlier) which cast a specific mandate on the procurer (Haryana Utilities) to honor the invoices raised, irrespective of dispute, and impose a specific bar against unilateral deductions/setting off.**

119. We find the dilatory conduct of the Haryana Utilities, to delay the implementation of the binding orders concerning compensation on account of coal shortfall and corresponding taxes and duties, detrimental to the interest of end consumers since it burdens the consumers with incremental LPS for delay in making payments to the generator. This cannot be countenanced, given the earlier dispensation on the subject by the statutory regulator and appellate forum(s), since it smacks of approach that is designed to frustrate the legislative command, and extant State policy, as indeed constitutes abject indiscipline infringing the rule of law.

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Borrowing THE WORDS OF Hon'ble Supreme Court in SEBI vs. *Sahara India Real Estate Corpn. Ltd.*, (2014) 5 SCC 429 "*non-compliance with the orders passed ... shakes the very foundation of our judicial system and undermines the rule of law*" which this tribunal is also duty-bound to "*honour and protect*", so essential "*to maintain faith and confidence of the people of this country in the judiciary*".

*[emphasis supplied]*

**174.** It could thus be seen that even the Standing Committee of Parliament, in its report, has recommended that there should be consistency and uniformity with regard to orders emanating from the status of 'Change in Law'. It has also recommended that the provisions should also be made for certain percentage of payments of regulatory dues to be paid by DISCOMS in case the orders of regulators are being taken to learned APTEL/higher judiciary for their consideration and decision. The learned APTEL has also referred to the Policy Directive dated 27<sup>th</sup> August 2018 issued in terms of Section 107 of the Electricity Act, 2003 by the MoP to the CERC, where it emphasized the need to ensure

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expeditious recovery of 'Change in Law' compensation. The learned APTEL has also referred to the Electricity (Timely Recovery of Costs due to Change in Law) Rules, 2021, notified by MoP on 22<sup>nd</sup> October 2021, which provide for timely recovery of compensation on account of occurrence of 'Change in Law' events. The learned APTEL found that the Haryana Utilities have been adopting dilatory tactics, which not only defeat the public policy but also have the undesirable fallout of adding to the burden of the end-consumers they profess to serve on account of increasing 'Carrying Cost'. The learned APTEL further found that withholding of past payments, including towards taxes and duties by the DISCOMS, is in violation of the provisions of the PPAs, which casts a specific mandate on the procurer to honour the invoices raised, irrespective of dispute, and impose a specific bar against unilateral deductions/setting off.

**175.** It is further to be noted that this Court, in the case of ***Uttar Haryana Bijli Vitran Nigam Limited (UNHVNL) and another***



***v. Adani Power Limited and others***<sup>12</sup>, has specifically observed that the 'Change in Law' events will have to accrue from the date on which Rules, Orders, Notifications are issued by the instrumentalities of the State. Even in spite of this finding, the DISCOMS are pursuing litigations after litigations.

**176.** We find that, when the PPA itself provides a mechanism for payment of compensation on the ground of 'Change in Law', unwarranted litigation, which wastes the time of the Court as well as adds to the ultimate cost of electricity consumed by the end consumer, ought to be avoided. Ultimately, the huge cost of litigation on the part of DISCOMS as well as the Generators adds to the cost of electricity that is supplied to the end consumers.

**177.** We further find that non-quantification of the dues by the Electricity Regulatory Commissions and the untimely payment of the dues by the DISCOMS is also detrimental to the interests of the end consumers. If timely payment is not made by DISCOMS,

<sup>12</sup> (2019) 5 SCC 325



under the clauses in the PPA, they are required to pay late payment surcharges, which are much higher. Even in case of 'Change in Law' claims, the same procedure is required to be followed.

**178.** Ultimately, these late payment surcharges are added to the cost of electricity supplied to the end consumers. It is, thus, the end consumers who suffer by paying higher charges on account of the DISCOMS not making timely payment to the Generators.

**179.** It is further to be noted that the appeal to this Court under Section 125 of the Electricity Act, 2003 is only permissible on any of the grounds as specified in Section 100 of the Code of Civil Procedure, 1908. As such, the appeal to this Court would be permissible only on substantial questions of law. However, as already observed herein, even in cases where well-reasoned concurrent orders are passed by the Electricity Regulatory Commissions and the learned APTEL, the same are challenged by the DISCOMS as well as the Generators. On account of pendency of litigation, which in some of the cases in this batch



has been more than 5 years, non-payment of dues would entail paying of heavy carrying cost to the Generators by the DISCOMS, which, in turn, will be passed over to the end consumer. As a result, it will be the end consumer who would be at sufferance. We are of the opinion that such unnecessary and unwarranted litigation needs to be curbed.

**180.** To a pointed query, the learned counsel for the DISCOMS fairly conceded the position that the prices at which the electricity is purchased from the 'Independent Power Producers' is substantially lesser than the power purchased from the 'State Generating Companies'.

**181.** We, therefore, appeal to the Union of India through Ministry of Power ("MoP" for short) to evolve a mechanism so as to ensure timely payment by the DISCOMS to the Generating Companies, which would avoid huge carrying cost to be passed over to the end consumers.



**182.** The Union of India, through MoP, may also evolve a mechanism to avoid unnecessary and unwarranted litigation, the cost of which is also passed on to the ultimate consumer.

**183.** Before we part with the judgment, we place on record our appreciation for the valuable assistance rendered by Mr. Balbir Singh, learned Additional Solicitor General, Dr. A. M. Singhvi, Mr. V. Giri, Mr. M.G. Ramachandran, Mr. C.A. Sundaram, Mr. Maninder Singh, Mr. Sajan Poovayya and Mr. Niranjana Reddy, learned Senior Counsel, and Mr. Vishrov Mukerjee, Ms. Poorva Saigal, Ms. Anushree Bardhan, and Ms. Poonam Sengupta, learned counsel.

**184.** In view of the above, all the appeals are dismissed. No costs.

.....J.  
[B.R. GAVAI]

.....J.  
[VIKRAM NATH]

**NEW DELHI;  
APRIL 20, 2023**





# ANNEXURE-D

DAMODAR VALLEY CORPORATION

P.O-MAITHON DAM,

Tel No. (06540) 279402/279683/279445; Fax No. 06540-274313

3  
Annexure-3

## ANNEXURES

### ENCLOSURES FORMING THE PART OF THE AGREEMENT:-

Annexure (1) to (4) mentioned below and annexed hereto shall form the integral part of this Agreement:-

- |                  |  |
|------------------|--|
| (1) ANNEXURE-'A' | Schedule -I & Schedule -II   |
| (2) ANNEXURE-'B' | Detail of the Company  |
| (3) ANNEXURE-'C' | MD/DVRR/W-6(143)/2020/1243-49 dated 01.07.2020 of Member Secretary, DVRR, CWC, Maithon                             |
| (4) ANNEXURE-'D' | Letters No.- MRO/Tariff Cell/-1/927 dated 03.07.2020 of Dy. Chief Engineer ( Civil), Water Resources, DVC, Maithon |

Ausgh  
18/9/2020

For and on behalf of

NTPC Ltd / AK Singh  
 General Manager (O & M)  
 NTPC Limited  
 North Karanpura STPP  
 Chatra (Jh.)  
 Registered Office: NTPC Bhawan,  
 SCOPE Complex, Institutional Area, Lodhi  
 Road, New Delhi - 110003

18/9/2020

CHIEF ENGINEER

For and on behalf of

मुख्य अभियंता (सिविल) तथा विभागाध्यक्ष  
 दामोदर नदी नदी प्रणाली  
 D.V.C. Maithon Dam, Dhanbad

Kolkata-700054

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Director  
 Chief Engineer  
 Deputy Engineer  
 Assistant Engineer  
 Section Engineer  
 Junior Engineer  
 Peon  
 L.D. Clerk



# DAMODAR VALLEY CORPORATION



## AGREEMENT

EXECUTED ON 18<sup>th</sup> day of September-2020

BETWEEN

DAMODAR VALLEY CORPORATION  
AND

NTPC Limited  
For Supply of RAW WATER  
FOR

NORTH KARANPURA SUPER THERMAL POWER PROJECT  
AT  
Tandwa

FROM

River Garhi, a tributary of Damodar River

FOR  
INDUSTRIAL (USES)

Allocated Quantity : 12.05 (Twelve Point Zero Five) MGD { 20 (Twenty) MCM/Year}

*A. Singh*

ए.के. सिंह / A.K. Singh  
जनरल प्रमन ल. अग्रवाल / General Manager (O & M)  
एनटीपीसी लिमिटेड / NTPC Limited  
नॉर्थ कारनपुरा सुपर थर्मल / North Karanpura STPP  
तन्दावा, चार (झ.) / Tandwa, Chhara (Jh.)

*Md. O.*

वरिष्ठ मंडलीय अभियन्ता (सी)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलसांभार प्रभाग  
M.R.O. Office

(57)

*Shahi*

Digitally signed by Sr. Divisional Engineer (C) DN: cn=Sr. Divisional Engineer (C), o=NTPC Ltd, email=Sr. Divisional Engineer (C), c=IN, Date: 2020.09.18 10:10:10 +05'30', Reason: I am the author of this document. Location: NTPC Ltd







www - 07/9/20 - ਲਸ਼ੀ-ਦੀ-ਘਰੀ-ਪੰਜੀ-ਲਾਇਵਿੰਗ - ਪ੍ਰਮੋ.  
ਦੁੱਖਾਂ-ਚਲਣ-ਬਾਲਨੇ-ਉਲਟਾ - ਭੈ.

514. July 02

कोषागार पदोपकारि  
प्रकारिण

MA 01900-0000  
BOSTON MA 01900-0000

Approved by:   
 Date: 10/23/2018  
 Location: NTPC, Ltd.



WHEREAS one of the functions of the First party under Section 12(a) of the said Act is the promotion and operation of the schemes inter-alia for the supply of water in the Damodar Valley.

AND WHEREAS under the provisions of Section 15 of the said Act the First Party is vested with power to determine and levy rates for bulk supply and retail distribution of water for industrial purposes and specify the manner of recovery of such rates.

AND WHEREAS under the provisions of section 17 of the said Act construction, operation or maintenance in the Damodar Valley of any dam or other work of any installation for extraction of water shall not be effected by any person without the consent of the First Party.

AND WHEREAS the Second Party has requested the First Party under cover of its letter No. Nil dated 14.09.2020 annexed hereto, to allow it to construct, operate and/or maintain the water supply scheme and to allow it to have a supply of water from River Garhi, a tributary of Damodar River for their North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415 in accordance with the approved plan and drawing forwarded by Chief Engineer (Civil), DVC, Maithon vide letter no.- Nil & Letters No.- MRO/Tariff Cell/-1/927 dated 03.07.2020 of Dy. Chief Engineer (Civil), Water Resources, DVC, Maithon and also the letter No. MD/DVRR/W-6(143)/2020/1243-49 dated 01.07.2020 of Member Secretary, DVRR, CWC, Maithon annexed hereto for Industrial purpose as laid down in the relevant provisions of the said act.

AND WHEREAS the First Party has agreed to such construction, operation and/or maintenance of the water supply scheme and has further agreed to such supply of water to the Second Party for an initial period of five years as referred to in Clause- 16 here-in-under on the terms and conditions as hereinafter appearing.

**NOW THIS AGREEMENT WITNESSTH AND IT IS HEREBY DECLARED AND AGREED AS FOLLOWS:-**

**01. (a) PERMISSION :**

(i) The "First Party" hereby grants to the "Second Party" the permission to construct, operate and/or maintain the said water supply scheme in accordance with the Plan and Drawing annexed hereto and to extract such quantities of water from River Garhi, a tributary of Damodar River for the purpose of NORTH KARANPURA SUPER THERMAL POWER PROJECT at Tandwa as the "Second Party" may require upto 12.05 (Twelve Point Zero Five) MGD { 20 (Twenty) MCM/Year} at the point in the River Garhi, a tributary of Damodar River indicated in the said plan and Drawing annexed hereto and in the manner hereinafter mentioned provided the "Second Party" desiring to increase or decrease the quantity of water to be extracted as permitted aforesaid the "First Party" may require the "Second Party" to give the "First Party" THREE(3) MONTHS' notice in writing and approach DVRR stating the quantity of water required and the "First Party" after receipt of approval of DVRR will permit the additional drawal of water depending on the condition prevailing at that time provided further that failure on the part of 'the First Party' will not be construed as breach of this Agreement. the sourcing point and allocation of water by DVRR is function-specific. The allocation shall, in no way, be utilized /misused by 'the Second Party' by sale of water to any other consumer or its sister concern (or any agency on its behalf) for any purpose whatsoever, in the event of any such act, the same will be construed as breach of the terms and conditions of this agreement on the part of 'the Second Party' as specified in clause-17

*Anup*  
ए.के. सिंग / A.K. Singh  
जनरल मैनेजर / General Manager (O & M)  
उत्तर कोशी विभाग / NTPC Limited  
नॉर्थ कारनपुरा सुपर थर्मल प्रोजेक्ट / North Karanpura STPP  
तन्दावा, चट्रा (झ.) / Tandwa, Chatra (Jh.)

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*MD. O.*  
वरिष्ठ विभागीय अभियन्ता  
Sr. Divisional Engineer (C)  
कर्मचारी, प्रबंधक, जलसागर  
Date: 14/09/2020  
Region: CWC (Jharkhand)  
Location: NTPC, Ltd.



(i) The "First Party" who is seized and possessed of and is otherwise well and sufficiently entitled to the plots of land measuring Nil of DVC land, more particularly described in the drawing hereto annexed, hereby grants to the "Second Party" the right to use/build at his own cost, the intake works comprising the pump house supporting structures and approaches and also lay down pipes and other works on the above mentioned piece and parcel of land.

(ii) These structures and pumping installations shall be the property of the "Second party" and shall be maintained by them.

(iii) The "Second Party" shall apply to the "First Party" for extension of the license-period of the temporarily allotted piece of land for permissive possession/occupation for the specific use if applicable as mentioned hereinabove in Cl. 01.(b).(i) before expiry of every license-period/term of 11 (eleven) months as per the subsisting rules & regulations for temporary use/permissive possession/occupation. The "Second Party" hereby agrees to comply with all the existing terms and conditions as may be decided by the Corporation from time to time and agrees to pay the license fee as may be revised time to time without raising any dispute in this regard.

(iv) For the temporary use/occupation of the said Nil of DVC land, the second party shall pay the "First party" a license fee 0 @ Rs. 6/- sq.ft. per term of 11 (eleven) months from the date of permissive possession/occupation of the said land if applicable, is made over to the "Second Party".

The aforesaid license-period and the rate of license fee may be altered and /or revised and/or enhanced as per discretion of 'the FIRST party' and 'the SECOND PARTY' agrees to make the payments as per the revised rate as and when made applicable.

(v) The "Second Party" shall not be entitled to transfer or let out the said land to others without the consent of the "First Party".

(vi) The "First Party" shall not put up any structure of its own on the aforesaid piece of land without the consent of the "Second Party" which shall not be unnecessarily withheld.

(vii) On the termination of the tenure of the temporary use and occupation period, the "Second Party" shall quit, vacate and deliver peaceful possession of the said land by removing the intake works built thereon and restoring it to its original condition at his own cost.

(viii) Neatness and cleanliness of the area occupied should be observed by the "Second Party"

## 02. APPROVAL OF PLAN & DRAWING INSPECTION:

The installation of the "Second Party" required for extraction of water at the point on the River Garhi, a tributary of Damodar River indicated in the said plan and Drawing shall be duly approved by the "First Party" before erection provided the "First Party" or its representatives duly authorized in that behalf shall, from time to time, and at all times be entitled to enter such installations of the "Second Party" for inspection.

*Amogh*  
A.K. Singh  
General Manager (O & M)  
DVC - Ranchi  
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 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1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 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2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2



### 03. (a) EXCESS DRAWAL :

No drawal in excess of the water, as permitted shall be made by "the second party" without obtaining the specific prior written permission/approval of DVRRC and subject to such terms and conditions as "the First Party" may like to impose. Notwithstanding, whatever is mentioned in this agreement regarding excess drawal, it is hereby agreed and accepted by the second party that, for the quantities of water consumed in excess of the approved monthly drawal and for any other unauthorized drawal of water, sanctioned quantum will be charged @ normal rate plus overdrawal/unauthorized drawal in excess of sanctioned drawal on monthly basis will be charged @ 2 (Two) times the normal rate.

### (b) LESS DRAWAL:

The less drawal of water by 10% or more of the agreement quantity during any 5 (five) consecutive years will automatically call for revision of the agreement quantity. The revised agreement quantity will be reduced to average of preceding 5 yrs' actual drawal, without making any further reference to the consumer incorporating the actual average drawal. However, the consumer may opt to apply to DVRRC for increase the quantity as per provision under Clause -1(a) hereinabove.

### 04. MODE OF MEASUREMENT & METERS :

For the purpose of measurement of the quantity of water extracted, the "Second Party" shall under this Agreement, with the prior Approval of the First Party, install at such points as may be indicated by 'the First Party', as many meters or as equal to the different type or types of uses of water so as to register the quantity of water for the purpose of determining the water drawal pattern (excess/less drawal) of the Second Party in such units of measurement as may be adopted by "the First Party"

from time to time provided that for the purpose of checking the accuracy of the meter/meters installed by "the Second Party", "the First Party" may install check meters or other mutually agreed upon check measures and "the Second Party" shall provide all facilities such as log book etc. required by "the First Party" for such installation or such check.

It shall be responsibility of the 'Second Party' to repair/rectify/replacement of meter/meters within a period of 30 days from the date of detection of the fault by either party. And that 'the second party' has to submit a report certified by the representative of the first party every year regarding their compliance with proper and satisfactory functioning of meter with proper logging of meter readings which will be given due importance during periodic review of water utilization by DVRRC. Non-compliance of above may tantamount to cancellation of water allotment.

The reading of the meters referred to above shall be jointly taken by the accredited representative of the consumer and Corporation on/or as near as practicable to the last day of each English calendar month or as decided by the corporation and the reading so taken shall be binding, final and conclusive between the consumer and the Corporation as to the quantity of water drawal by the consumer, provided that in the event of any meter being found defective and the quantity of drawal of water during the period when the meter was defective shall be determined, unless otherwise mutually agreed as detailed in clause - 6 & 10 here-in-under.

*Arup Singh*  
Rakesh Singh / A.K. Singh  
General Manager (D&W)  
NTPC Limited  
North Karanli, Chhattisgarh  
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*Mad. On*  
Dr. Divyanshu  
NTPC Limited  
North Karanli, Chhattisgarh





Damodar Valley Corporation  
Office of the Manager Reservoir Operations  
Maithan Dam, Dhanbad  
Jharkhand-828 207

Phone : 06540 279445

No.: MRO/Tariff Cell/ NKSTPP / 2032

Dated- 18-09-2020

To  
✓ The Authorized Signatory,  
ANIL KUMAR SINGH  
M/S. NTPC LIMITED  
NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003

Sub.: Execution of Agreement for Water withdrawal of 12.05 (Twelve Point Zero Five) MGD [ 20 (Twenty) MCM/Year] of Raw Water for M/S NTPC LIMITED NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003

Dear Sir,

Enclosed, please find here with a copy of the Agreement for drawal of 12.05 (Twelve Point Zero Five) MGD [ 20 (Twenty) MCM/Year] of Raw Water for NTPC Limited, on 18-September-2020 for your record.

Yours faithfully,

Md. O. S. 18/09/2020

(Md Omair)

Sr. Divisional Engineer ( Civil ),  
Tariff Cell, MRO'S Office, DVC, Maithon

Dated. 18-09-2020

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Document No. NKSTPP/2032/18-09-2020  
Date: 18-09-2020  
Place: Maithon  
By: Md. Omair  
For: Sr. Divisional Engineer (Civil)  
Tariff Cell, MRO'S Office, DVC, Maithon



**05. SEALING OF METERS :**

All meters referred to in the above mentioned Clause - 04 excepting the ones with automatic recorder on charts if any, shall be properly sealed on behalf of both the parties hereto and shall not be interfered with by either party except in the presence of the other party or its representatives duly authorized in that behalf.

**06. METER READING, INSPECTION & BASIS OF PAYMENT :**

The Control Valve House housing the meter/meters of 'the Second Party' shall remain in the custody of 'the second Party' and 'the First Party' through its representative duly authorized in that behalf shall at all times be entitled to enter the said Control Valve House and inspect the meter/meters. The meter reading shall be entered up daily at 9.00 hours in a register by the second Party or its representatives duly authorized in that behalf. The readings may be checked and attested by 'the First Party' or its representative duly authorized in that behalf, at convenient intervals.

Provided that where it is not possible to record the quantity of water extracted for a particular use directly owing to the absence of a meter directly recording such quantity, the quantity extracted for such use shall be determined by taking the difference between the quantity recorded in the main meter, recording the total quantity extracted for all uses under this Agreement, and the quantity recorded for the other uses for which there may be direct meter/meters.

Provided further that if this meter/meters installed by 'the second party' for recording the quantity of water is/are out of order, the quantity of water extracted may be assessed by taking the average of the quantity extracted during the preceding 3 (three) months as per the reading of the meter/meters, provided further that nothing as aforesaid shall prevent the respective parties from arriving at a mutual settlement as regard the quantity of water extracted during the above period for the purpose of ascertaining excess/less drawal by the second party.

The basis of payment shall be the quantity of water extracted in a month. In other words, bills shall be raised monthly or quarterly or as decided by the corporation, based on the extracted quantity.

**07. QUANTITY OF WATER CONSUMED OR EXTRACTED :**

The Registers of meter reading referred to in the above mentioned Clause- 06 or the assessed quantity of water mutually agreed upon by and between both the parties hereto or the average of the quantity of water extracted during the three months as aforesaid or computed by taking the difference between the direct recording and main meter shall be the prima facie evidence of the quantity of water extracted by 'the second Party'.

*Anuph*

एकेश सिंह / A.K. Singh  
सहायक प्रमुख प्रबंधक / General Manager (O & M)  
राज्यीयता निगम / NTPC Limited  
मुख्य कारखाना इलाहाबाद / North Karanpura STPP  
टांडवा, चतरा (झ.) / Tandwa, Chatra (Jh.)

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*HD. D.*

वरिष्ठ मंडलीय अभियंता (असिस्टेंट)  
Sr. Divisional Engineer (Asstt.)  
प्रशासन, प्रबंधक  
M.R.O.  
नं. पा. नि. मैदान, टांडवा, चतरा (झ.)  
Tandwa, Chatra (Jh.)



**08. PROPRIETARY RIGHT OF METERS AND UPKEEPMENT:**

Meters as mentioned in the above mentioned Clause -04 shall be the property of 'the Second Party' and 'the Second Party' shall be liable for the upkeepment of the meter and for carrying out test once a year or more to the satisfaction of the First Party about the accuracy of such meter/meters.

### 09. ACCURACY OF METERS :

In the event of any dispute or difference between 'the First Party' and the Second Party as to the sufficiency or accuracy or state of repair or condition of the said meter or as to the quantity of water extracted through such meter, such difference or dispute shall be referred to and determined by an Engineer to be appointed by both the parties hereto.

#### 10. BASIS OF ASSESSMENT IN ABSENCE OF METER :

(a) It is accepted and agreed by the 'Second Party' that the total quantity of consumption of water for the month shall be computed by the first party on the basis of actual drawal of water and the bills shall be raised on such quantity as referred to in Schedule-I & II. However, the Second Party is required to install and commission the meter(s) up to the satisfaction of the First Party for ascertaining excess/less drawal as referred to in clause 3.(a) & 3.(b) hereinabove.

(b) If at any time the meters installed for measurement of water extracted shall at any time, cease to register correctly or be removed for repair, calibration etc., then for the period until the said meters shall have been repaired replaced or otherwise adjusted as to register the quantity of water passing through it correctly, the quantity shall be computed as per proviso of clause 06 hereinabove. The First Party, however, shall be entitled to charge and 'the Second Party' shall be liable to pay for such quantity of water as mentioned in Schedule-II and the bills shall be continued to be raised by first party based on the extracted quantity as mentioned hereinabove.

Notwithstanding the bills shall be raised as per provisions contained in preceding cl. 10.(a). The Second Party shall make every Endeavour to get the meter repaired and installed to the satisfaction of the First Party within a period of 1(one) months.

### 11. BILLS & PAYMENTS:

(a) Bills & Tariff:

The price for supply of water shall be charged to the 'Second Party' in accordance with Schedule-I & the First Party's 'Schedule of Rates' as given in Schedule-II and other conditions in force from time to time, provided that any levy such as any Surcharge, Sales Tax, Octroi or any another amount by whatever other name called known or made by the Corporation, the state Government or any other competent authorities on quantity of water allocated to the 'the second Party' under this agreement, shall be paid by 'the second Party'.

Ausph  
ए.के.सिंग / A.K. Singh  
प्रबंधक (प्रमुख एवं अनुसंधान) / General Manager (O & M)  
एनटीपीसी लिमिटेड / NTPC Limited  
नवीं अश्वमेधा इलेक्ट्रिक / North Karanpura STPP  
टाण्डेरा, चट्टा (झ.) / Tandera, Chhota (Jh.)

4d. O

वरिष्ठ मंडलीय अभियंता (असेट)  
Sr. Divisional Engineer (C)  
क्यालय, प्रबंधक नाला प्रणाली  
M.R.O. Office  
ग.प्रा.नि. देवत/ D.V.C. Mathura

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[illegible]



**(b) Security Deposit: Applicable**

The First Party may require the Second Party to deposit a Security Amount of Rs. 5,77,02,323/- ( Rs. Five crore Seventy Seven Lakh Two Thousand Three Hundred Twenty Three Only) equivalent to water charges for three calendar months, considering quantity allocated in 12.05 (Twelve Point Zero Five) MGD ( 20 (Twenty) MCM/Year) specified in Clause- 1(a) and given in the schedule -I annexed hereto and or as modified as per clause-13 here-in-under and as per the prevailing water rate mentioned in schedule of rates in Schedule-II. The Second Party shall have to pay altered security amount if the quantity of allocation is changed by DVRRC as per the terms of this agreement and as and when the water rates are revised and notified to the second party from time to time during the tenure of this agreement. In the event of termination of this agreement such security deposit shall be refunded after adjustment of dues, if any, to the Second Party without any interest thereon.

**(c) Periodicity of Billing:**

Bills will be raised to the Second Party monthly/quarterly based on actual drawal or as decided by the Corporation as the case may be. It will be the responsibility of second party to make the aforesaid payment within the due date without raising any dispute in this regard.

**(d) Mode of payment:**

The 'second party' shall pay the bill amount to the first party's office at Kolkata by RTGS/Cheque/Demand Draft drawn on Kolkata Branch of any Nationalized Bank, payable to Executive Director (Finance), DVC, Kolkata-54 within within 30 days from the date of issue of the bill . The license fee, however, is to be paid by the second party as per terms mentioned in Clause- 1 (b).

**(e) Provisional Billing for disputed bills:**

In the case of any disputed bill(s) and or non-receipt/delayed receipt of bill, the second party shall collect the duplicate bill from the office of first party and make the payment immediately. However Delay Payment Surcharge, if applicable, as mentioned here-in-under in clause 11.(f) shall have to be borne by the second party. In case of disputed bills, the second party shall continue to pay full amount as per the bill raised by the first party. The necessary adjustment shall be done by the first party on resolution of dispute and/or differences.

**(f) Delay Payment Surcharge:**

If 'the second party' fails to make the payment of any bill amount within the due date, the second party shall pay the surcharge of 2.0 % per month on the amount of the bill from the due date of payment to the date of receipt of such amount in first party's office at Kolkata/ in Corporation's Account which shall be treated as date of payment. The rate of Delay Payment Surcharge is however liable to revision from such date as the Corporation may decide with prior notice of one month in writing to the consumer.

**(g) Default in payment:**

In the event any bill remaining unpaid for 60 days from the date of issue of the bill, the first party shall give the second party 7(Seven) days' clear notice in writing of its intention to discontinue the supply of water and on the expiry of such period if the payment has not been received, 'the first party' may forthwith discontinue supply of water to the second party till the period the default continues. Such discontinuance of supply shall not be deemed as breach on the part of the Corporation to comply with any of the terms of this Agreement and shall not relieve the consumer of its obligations and liabilities under the Agreement.

*Anush*  
Rajesh RITE / A.K. Singh  
General Manager (O & M)  
NTPC Limited  
Kolkata / North Karanpura STOP  
Chitra (Jh.)

1193

*Ush*  
Sr. Divisional Engineer (C)  
NTPC Ltd.



11. RESOLUTION OF DISPUTE ON BILL AMOUNT:

In the event of any dispute on the amount of the bill the consumer shall submit the in details indicating the reason/reasons for such dispute and the aforesaid dispute/disputes normally shall be resolved by mutual discussion and/or mutual exchange of written documents between the consumer and the Corporation through authorized representative within 30 (thirty) days from the date of receipt of such reference made by the second party to 'the First Party'.

12. MODE OF SUPPLY UNDER NORMAL & ABNORMAL CONDITION:

Save as provided herein 12.05 (Twelve Point Zero Five) MGD ( 20 (Twenty) MCM/Year) which, however, need not be continuous, throughout 24 hours, shall be available to 'the Second Party' provided that in case of draught or other unforeseen circumstances, force majeure or any other cause over which the First Party has no control, the First Party shall not be responsible for any diminution or discontinuance of supply on such occasions, but it shall restore the normal conditions of supply as soon as it reasonably can be done to the extent possible.

"The First Party" shall not be considered to be in default or in breach in supplying agreed quantity of raw water due to causes beyond the control of the "The First Party" such as acts of God, Natural Calamities, Civil Wars, Fire, Draught, Riot and acts of unsurpassed power, etc.

13. VALIDITY PERIOD OF QUANTUM OF WATER ALLOCATION:

Notwithstanding whatever is stated herein above, the allocated quantum of water for drawal by 'the Second Party' i.e. initial allocation of quantity (in MGD/Cusec) by DVC/DVRRRC shall remain valid for INITIAL AGREEMENT period of 5 (five) years.

In case the average drawal by the second party during the initial agreement period of five years is not below 90% of allocated quantity, then the allocated quantity as specified in Clause- 1(a) shall be treated as the 'allocated quantum' of water for drawal by 'the second party' during the forthcoming period provided that the average drawal during last consecutive 5 (five) years is not less by more than 10% of allocated quantity at the time of review by DVRRRC.

In case the drawal is found less by more than 10%, the first party may reduce the quantum of allocation accordingly based on the average drawal. However, the second party shall have the liberty to apply for increasing the re-allocated quantity as per provision of Clause- 1(a). Any change in the allocated quantity after review by DVRRRC Shall deem to replace the quantity of drawal specified in Clause- 1(a) and Schedule- I annexed hereto.

Fresh application for re-allotment of the earlier quantity of water for drawal by the second party, shall be required to be submitted by 'the Second Party' twelve(12) months prior to expiry of the initial agreement block of 5(five) years.

If the fresh application as above, is not submitted by 'the second party' in due time to the review committee of DVRRRC, 'The first party' shall have the right to reduce ex-parte the re-allocation of water as decided by the committee as deemed fit for equitable distribution taking into consideration the average drawal by the second party during the preceding 5(five) years.

'The second party' hereby accepts and agrees to the aforesaid re-allocation of water without any dispute and the bills shall be raised on the basis of the drawal quantity in MGD.

*A. Singh*  
ए.सी. सिंह / A.K. Singh  
वरिष्ठ (मैन एग्जक्यूटिव) / General Manager (O & M)  
एच.टी.डी. लिमिटेड / NTPC Limited  
उत्तर कानपुर एच.टी.डी. / North Kanpur STPP  
दुमरा, चतरा (झ.) / Tumara, Chatra (Jh.)

*Md. Omer Choudhary*  
वरिष्ठ प्रबंधक (मैन एग्जक्यूटिव) / Sr. Divisional Engineer (O & M)  
उत्तर कानपुर एच.टी.डी. / North Kanpur STPP  
म.प्र.ओ. / M.P.O.  
श.प्र.नि. मेरान / S.P.N. Meran



#### 14. RULES & REGULATION:

'The Second Party' agrees to conform to and abide by all rules and regulations made by the First Party including guidelines for water allocation set by DVRRC now in force and/or which may from time to time be made by the First Party consistent with this agreement relating to the extraction of water from the First Party's sources within the statutory limit of the said Act.

'The second party' shall ensure the optimal use of allotted quantum for the specific purpose and surrender the wasteful usage from the allotted quota. 'The second party' shall take all cares to avoid any untoward hydraulic conditions and undesirable changes in the river/supply channel.

'The second party' shall also ensure that the minimum flow in the river channel required for ecological balance is not interfered with. The Second Party shall take care that the intake structure and drawl of water, under no circumstance be detrimental to the safety and operation procedures of adjoining intakes/reservoir bridges both upstream & downstream of the intake point and also that the proposed intake is strong enough to be able to withstand floods in the river.

Notwithstanding whatever is stated in Clause-13 above, the review committee for allocation of water shall have prerogative to review periodically to reflect and incorporate the changes which take place in the realm of Water Resource Management.

'The Second Party' will ensure that the effluent water discharging out of the plant/industry will conform to the latest rules/bye laws/ regulations/prescribed water quality parameters by pollution control board of respective State Governments and/or Central Government.

Notwithstanding that the Corporation may not have acted on some previous breach, defaults or event of like nature on the part of the second party, it shall be lawful for the Corporation to enforce the terms and conditions of these presents in the event of a subsequent breach, default or event of like nature in all matters related to withdrawal of raw water by 'the Second Party'.

Any waiver by 'the First Party' of any breach of the terms and conditions of this agreement by the Second Party shall not constitute waiver of any subsequent breach of any other terms or conditions of this agreement.

#### 15. DISPUTE OR DIFFERENCE & ARBITRATION:

Any dispute(s) or difference(s) arising out of or in connection with the agreement at any time between the 'First Party' and the 'Second Party' shall to the extent possible be settled amicably between the parties.

In the event of any dispute(s) or difference(s) whatsoever arising under the agreement or in connection therewith including any question relating to existence, meaning and interpretation of the agreement or any alleged breach thereof, the same shall be referred to the Secretary/CEO of Damodar Valley Corporation, Kolkata-700 054, to nominate Sole Arbitrator for settlement of disputes.

The Arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification thereof or for the time being in force or the latest. The decision/judgment of the Sole Arbitrator shall be final and binding on both the parties. The cost of Arbitration shall equally be borne by both the parties. The venue of Arbitration shall be at Kolkata.

However, in case the 'Second Party' is a Central Public Sector Enterprise/Govt. Department, the dispute arising between the parties shall be settled through Permanent Arbitration Machinery (PAM) / Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) of the Department of Public Enterprise, Govt. of India, which is applicable, as per prevailing rules.

All suits arising out of dispute(s) or difference(s) between the 'First Party' and the 'Second Party' are subject to jurisdiction of Court in the City of Kolkata.

*AK Singh*  
General Manager (O & M)  
NTPC Limited  
North Karapura STPP  
Chattri (Jh)

1195

*Chandra*  
Sr. Divisional Engineer (PC)  
Kolkata Division  
Damodar Valley Corporation



## 16. TENURE OF AGREEMENT OR VALIDITY :

This agreement shall subject as hereinbefore provided be and remain in force for a period of 5 (five) years initially from the date of commencement of supply under this Agreement and thereafter shall continue uninterruptedly under the existing terms and conditions until determined by either party after the expiration of the fifth or any subsequent year on giving 3 (Three) months' prior notice in writing of such intention and at the expiration of such notice this Agreement shall absolutely cease and determine but without prejudice to the rights and remedies, if any, of either party which may have accrued or arisen hereunder in the meantime and provided that the Second Party shall on giving the First Party 3 (three) months' prior notice in writing of such intention be at liberty at any time after the expiration of the fifth or any subsequent year to terminate this Agreement by making payment of the charges equal to water charges for one year as per Schedule of Rates (Annexed as Schedule-II) in force at that time.

## 17. TERMINATION :

If 'the 'Second Party' commits any breach of the terms and conditions of this agreement or if there is any default on the part of 'the second Party', 'the First party' will be at liberty to terminate this agreement upon one months' notice to 'the second party' without prejudice to the rights and remedies, if any, which may have accrued or arisen thereunder.

*Arunesh*

ए.के. सिंह / A.K. Singh  
जनरल मैनेजर (O&M) / General Manager (O&M)  
एनटीपीसी लिमिटेड / NTPC Limited  
नार्थ कारापुरा एसटीपी / North Karanpura STPP  
टाण्डवा, चट्रा (झ.) / Tandwa, Chatra (Jh.)

*Md. O. V.*

वरिष्ठ मंडलीय अभियन्ता (असें०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
रा.पा.नि. मैथन / D.V.C. Maithon

169

*Chander*  
Digitally signed by Chander  
DN: cn=Chander, o=NTPC, ou=North Karanpura STPP, email=chander@ntpc.co.in  
Date: 2024.08.28 10:18:18  
Reason: I am the author  
Location: NTPC Ltd



IN WITNESS WHEREOF THE PARTIES TO THESE PRESENTS HAVE HERE UNTO PUT THEIR  
REPECTIVE HANDS AND SEALS EACH THE DAY AND YEAR FIRST ABOVE WRITTEN.

The Agreement along with Schedule of rates would come into effect on and from the date of  
commencement of water supply.

WITNESS

1. S.K. MAJE - Signature  
DCE (W.R.) - Signature  
मुख्य अभियंता (परीक्षण)  
उत्तर प्रदेश राज्य विद्युत बोर्ड  
Department of Water Supply & Sewerage (D.W.S.S.)  
मुख्य अभियंता (परीक्षण)  
(Name & Address) Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलाशय प्रशासन  
M.R.O. Office  
च.प्र.वि. क्षेत्र/D.V.C. Malhotra
2. M.D. O.  
(Name & Address) Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलाशय प्रशासन  
M.R.O. Office  
च.प्र.वि. क्षेत्र/D.V.C. Malhotra

SIGNED, SEALED AND DELIVERED  
FOR AND ON BEHALF OF  
DAMODAR VALLEY CORPORATION

Signature 18/9/2020  
मुख्य अभियंता (परीक्षण) तथा निरीक्षण  
इंजीनियर, पैदाव डैम, धनबाद  
Chief Engineer (Civil) & HoD  
D.V.C. Malhotra Dam, Dhanbad

Signature 18/9/2020

SIGNED, SEALED AND DELIVERED  
FOR AND ON BEHALF OF  
NTPC Limited

Registered Office: NTPC Bhawan, SCOPE Complex,  
Institutional Area, Lodhi Road, New Delhi - 110003

WITNESS

1. Signature 18/9/2020  
(P. C. Nath)  
NTPC/NKSTPP, Tandwa  
Dist - Chattri
2. Signature 18/9/2020  
(Name & Address) (MURARI PRASAD)  
NTPC/NKSTPP, Tandwa  
Dist - Chattri

170

Documented by NTPC  
Date of Receipt 18/9/2020  
Digitally signed by Signature  
Date: 18/9/2020 12:00:00  
Reason: I am the author  
Location: NTPC, Ltd.







# Performa of information to be submitted by the company

## DETAILS OF THE COMPANY

### A. DETAILS OF APPLICANT:

01. Name in Capital Letters	ANIL KUMAR SINGH
02. Designation	GM (O&M)
03. Relationship with Intending Consumer	EMPLOYEE
04. Complete Postal Address	North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415
05. Telephone No.	9650998516, 06559-256412
06. FAX No.	06559-256403
07. E Mail Address	aksingh18@ntpc.co.in

### B. DETAILS OF THE WATER CONSUMER:

#### 1 Details of Registered Office:

Registered Office	Postal Address:	NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003
	Telephone No. :	: +91 11 24360100, 24387000, 24387001
	FAX No. :	011 24361018
	E-Mail Address :	: ntpccc@ntpc.co.in

#### 2 Details of Contact Person:

NAME:	SHRI ANIL KUMAR SINGH	
Contact Person	Postal Address:	North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415
	Telephone No. :	9650998516, 06559-256412
	FAX No. :	06559-256403
	E-Mail Address:	aksingh18@ntpc.co.in

*Handwritten signature: Anil Singh*  
*Stamp: North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415*  
*Stamp: NTPC Limited*  
*Stamp: GM (O&M)*



## Complete Billing Address:

Billing Address	Postal Address:	North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415
	Telephone No. :	9650998516, 06559-256412
	FAX No. :	06559-256403
	E-Mail Address :	aksingh18@ntpc.co.in

## C. DETAILS OF PROJECT/UNIT/PUMP LOCATION ETC.:

01. Name of the Village/Place	Tandwa
02. Plot no.	Garhi River Land
03. Dag No.	Garhi River Land
04. Mouza Name & No.	Garhi River Land
05. J.L. No.	Garhi River Land
06. Police Station Name & No.	Tandwa POLICE STATION
07. Name of Post Office with PIN	P.O.- Tandwa , NTPC North Karanpura, PIN-825321
08. District	Chatra
09. Postal Address of the Plant/ Unit site	North Karanpura Super Thermal Power Project, Tandwa, District-Chatra (Jharkhand), PIN- 825415
10. Point of Water Withdrawal/	Intake Well at River Garhi Latitude: 23 degree 51 minute 21 second Longitude: 85 degree 02 minute 05 second
Telephone No.	
FAX No.	
E-Mail Address	
11. Location of Water Treatment Plant	North Karanpura Super Thermal Power Project Latitude: 23 degree 50 minute 48.86 second Longitude: 85 degree 01 minute 0.07 second
12. Location of Pumping Station	Intake Well at River Garhi Latitude: 23 degree 51 minute 21 second Longitude: 85 degree 02 minute 05 second



13. Number of pumps installed	Six (06) Nos.
14. Capacity of pumps	3000 m <sup>3</sup> /hr (cubic metre per hour) (each pump)
15. Location of water meter	At Intake Well pump house
16. Location of Intake point	Intake Well at River Garhi Latitude: 23 degree 51 minute 21 second Longitude: 85 degree 02 minute 05 second
17. Quantum of water withdrawal in MGD (approved by DVRRC)	12.05 (Twelve Point Zero Five) MGD ( 20 (Twenty) MCM/Year)
18. Date of Commencement of water withdrawal from pumping station (to be filled up later)	01/10/2020

**D. DETAILS OF RAW WATER USAGE:**

(Attach Separate sheet, if necessary, giving details):

(1) Make up water to plant

*Arup*  
 70280 R/S / A.K. Singh  
 Senior Joint Project Manager / General Manager (O & M)  
 National Projects / NTPC Limited  
 and Energy Services / North Kachhura STPP  
 Project, West (N) / Tandina Chakra (Jh.)

Signature with full name of person

the Agreement & Stamp/ Seal of Company

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Document No. PWS-01  
 Date of Issue: 01/10/2020  
 Digitally signed by A.K. Singh  
 DN: cn=A.K. Singh, o=NTPC Limited, c=IN  
 Reason: I am the author of this document.  
 Location: NTPC Ltd.





DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम

Fax No.- 06540-279313



OFFICE OF THE CHIEF ENGINEER (CIVIL).

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 828207

Ref. No. : CE (C) / Tariff / 22-23 / NK / 169 / Bill - 366

Date: 06-October-2022

BILL FOR RAW WATER DURING THE PERIOD FROM

01-09-2022 To 30-09-2022

BILL FOR RAW WATER FOR

**NTPC, NORTH KARANPURA SUPER THERMAL POWER PROJECT**

To,  
The General Manager (O & M), NTPC,  
North Karanpura Super Thermal Power  
Project, Tandwa, Dist.- Chatra, Jharkhand,  
PIN- 825415

BILL NO. CE (C) / Tariff / NK / 169 / 3

BILL DATE : 06-10-2022

DUE DATE : 05-11-2022

Sanctioned Allocation : 12.05 MGD As per sanction of DVRRC

Agreement Executed on : 18-September-2020, Tenure of Agreement : 5 Years

Method of Measurement : Metre Reading

Billing Month : September-2022

Number of Days in the Month : 30

Actual Withdrawal : 4.586 MGD

**DESCRIPTION**

Source of Water Drawal

River Garhi, a tributary of Damodar River

Source of Water Drawal					
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Quantity for Bill (Gallon)	Quantity in Kilo Litre	Drawal rate per Kilo Litre (Rs.)	Amount (Rs.)
	(I) col.	(II) col.	((III) col. = (II) col. X 0.004545456)	(IV) col.	(V) col. = (III) col. X (IV) col.)
Prescriptive Right	0				
Domestic	0.00	0.00	0.0000	0	0.00
Industrial	136965129.48	136965129.48	622838.0000	14.162	8817799.36
Extra charges for drawing water from Water Supply Canal (Per KL.)				0	0.00
(10 % ) Incentive for Zero Effluent Discharge, if paid					0.00
Adjustment, if any					0.00
Total Charges					8817799.36
Total Charges (for the current month) E. & O.E	( Eighty Eight Lakh Seventeen Thousand Seven Hundred Ninety Nine Only )			Say (Rs.) (A)	8,817,799
Outstanding Dues (Rs.) (B)					0
Delay Payment Surcharge (Rs.) ( C )					0
Total Dues (Rs.) (A+B+C )	( Eighty Eight Lakh Seventeen Thousand Seven Hundred Ninety Nine Only )				8,817,799

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

अधीनस्थ अभियंता (अ०)  
Superintending Engineer (C.)  
जल प्रयुक्त विभाग / Water Tariff Cell  
प्रबंधक जलसंध्रारण प्रणाली  
Off. of the Manager Reservoir Operation  
दामोदर घाटी निगम / D.V.C. Maithon  
CHIEF ENGINEER (CIVIL)  
MAITHON DAM, DHANBAD, JHARKHAND

Note: It is mandatory for acknowledgement of Payment details at the following emails: dvcwater@gmail.com; sanjeevkumar@rediffmail.com

Please see important notice overleaf

Digitally signed by PRASHANT CHATURVEDI  
Date: 2024.10.22:04:08 IST  
Reason: AGA (Commercial)  
Location: NTPC Ltd



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10 ) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01/04/2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

### REVISED WATER TARIFF w.e.f. 01.04.2022 FOR DOMESTIC/MUNICIPALITY/PHEU AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. 01.04.2022

2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/PHEU	
	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023
Reservoir / River ( Per KL )	Rs. 12.874	Rs. 14.162	Rs. 1.902	Rs. 1.997
Extra Charges for drawing water from water supply canal ( Per KL )	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

For Domestic/Municipality/PHEU use - 05% shall be increased in raw water tariff annually.

(ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Maithon Dam, Dhanbad, Pin- 828 207.

2. The bill is payable within thirty days of its presentation. Late payment shall attract Delay Payment Surcharge per month as per agreement executed with DVC.

3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

### Details for Payment through RTGS

Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBBCH	
DVC's Account Number : 0082250010682.	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT CHATURVEDI - pchaturvedi@npsc.co.in

Digitally signed by PRASHANT CHATURVEDI  
Date: 2024.08.22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd.





DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम

Fax No.- 06540-279313



OFFICE OF THE CHIEF ENGINEER (CIVIL).

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 828207

Ref. No. : CE (C) / Tariff / 22-23 / NK / 169 / III - 365 Date: 06-October-2022

BILL FOR RAW WATER DURING THE PERIOD FROM 01-08-2022 To 31-08-2022

BILL FOR RAW WATER FOR

NTPC, NORTH KARANPURA SUPER THERMAL POWER PROJECT

To,  
The General Manager (O & M), NTPC,  
North Karanpura Super Thermal Power  
Project, Tandwa, Dist.- Chatra, Jharkhand,  
PIN- 825415

BILL NO. CE (C) / Tariff / NK / 169 / 2

BILL DATE : 06-10-2022

DUE DATE : 05-11-2022

Sanctioned Allocation : 12.05 MGD As per sanction of DVRRC

Agreement Executed on : 18-September-2020, Tennure of Agreement : 5 Years

Method of Measurement : Metre Reading

Billing Month : August-2022

Number of Days in the Month : 31

## DESCRIPTION

Source of Water Drawal		River Garhi, a tributary of Damodar River			
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Quantity for Bill (Gallon)	Quantity in Kilo Litre	Drawal rate per Kilo Litre (Rs.)	Amount (Rs.)
	(I) col.	(II) col.	(III) col. = (II) col. X 0.00454596	(IV) col.	(V) col. = (III) col. X IV col.
Prescriptive Right	0				
Domestic	0.00	0.00	0.0000	0	0.00
Industrial	1137436977.01	1137436977.01	5170743.0000	14.162	73228062.37
Extra charges for drawing water from Water Supply Canal (Per KL.)				0	0.00
(10 %) Incentive for Zero Effluent Discharge, if paid					0.00
Adjustment, if any					0.00
Total Charges					73228062.37
Total Charges (for the current month) E & O.E	( Seven Crore Thirty Two Lakh Twenty Eight Thousand Sixty Two Only )			Say (Rs.) (A)	73,228,062
Outstanding Dues (Rs.) (B)					0
Delay Payment Surcharge (Rs.) ( C )					0
Total Dues (Rs.) (A+B+C)	( Seven Crore Thirty Two Lakh Twenty Eight Thousand Sixty Two Only )				73,228,062

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

For and on Behalf of

DAMODAR VALLEY CORPORATION

CHIEF ENGINEER (CIVIL)

MAITHON DAM, DHANBAD

अधीक्षण अभियंता...

Superintending Eng.

Water / Water

Off. of the Manager Reserve

Digitally signed by PRASHANT

CHATURVEDI

Date: 2024.10.06 22:04:08 IST

Reason: AGM Commercial

Location: NTPC Ltd

Note: It is mandatory for acknowledgement of Payment details at the following emails: dvcwater@gmail.com; sanjeevkumar1@dvc.gov.in; dvcwater@vsnl.com; sanjeevkumar1@dvc.gov.in

Please see important notice overleaf



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01.04.2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

### REVISED WATER TARIFF w.e.f. 01.04.2022 FOR DOMESTIC/MUNICIPALITY/PHED AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. 01.04.2022

2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/PHED	
	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023
Reservoir / River ( Per KL )	Rs. 12.874	Rs. 14.162	Rs. 1.902	Rs. 1.997
Extra Charges for drawing water from water supply canal ( Per KL )	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

(i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.

(ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Maithon Dam, Dhanbad, Pin- 828 207.

2. The bill is payable within thirty days of its presentation. Late payment shall attract Delay Payment Surcharge per month as per agreement executed with DVC.

3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

### Details for Payment through RTGS

Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBBCH	
DVC's Account Number : 0082250010682.	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT  
CHATURVEDI - pchaturvedi@npsc.co.in

Digitally signed by PRASHANT  
CHATURVEDI  
Date: 2024.04.22:04:08 IST  
Reason: AGA (Commercial)  
Location: NTPC Ltd





DAMODAR VALLEY CORPORATION


दामोदर घाटी निगम

Fax No.- 06540-279313



OFFICE OF THE CHIEF ENGINEER (CIVIL),

P. O.- MAITHON DAM, DHANBAD, JHARKHAND, PIN.- 828207

Ref. No. : CE (C) / Tariff/22-23 / NK / 169/ Bill - 260		Date: 02-August-2022	
BILL FOR RAW WATER DURING THE PERIOD FROM		01-07-2022 To 31-07-2022	
BILL FOR RAW WATER FOR		<b><u>NTPC, NORTH KARPURA SUPER THERMAL POWER PROJECT</u></b>	
To, The General Manager (O & M), NTPC, North Karpura Super Thermal Power Project, Tandwa, Dist- Chatra, Jharkhand, PIN- 825415	BILL NO. CE (C) / Tariff / NK / 169 / 1		
	BILL DATE : 02-08-2022	DUE DATE : 01-09-2022	
	Sanctioned Allocation : 12.05 MGD As per sanction of DVRRC		
	Agreement Executed on : 18-September-2020, Tenure of Agreement : 5 Years		
	Method of Measurement : Metro Reading		
Billing Month : July-2022	Number of Days in the Month : 31	Actual Withdrawal : 7.778 MGD	
<b>DESCRIPTION</b>			
Source of Water Drawal		River Garhi, a tributary of Damodar River	
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Quantity for Bill (Gallon)	Quantity in Kilo Litre
	(I) col.	(II) col.	(III) col. = (II col. X 0.00454546)
Prescriptive Right	0		
Domestic	0.00	0.00	0.0000
Industrial	241103969.24	241103969.24	1096049.0000
Extra charges for drawing water from Water Supply Canal (Per KL)			0
(10 %) Incentive for Zero Effluent Discharge, if paid			0.00
Adjustment, if any			0.00
Total Charges			15522245.94
Total Charges (for the current month) E & O.E	( One Crore Fifty Five Lakh Twenty Two Thousand Two Hundred Forty Six Only )		Say (Rs.) (A) 15,522,246
Outstanding Dues (Rs.) (B)			0
Delay Payment Surcharge (Rs.) (C)			0
Total Dues (Rs.) (A+B+C)	( One Crore Fifty Five Lakh Twenty Two Thousand Two Hundred Forty Six Only )		15,522,246
COPY To:			
1. The G. M.(Finance), DVC Towers, Kolkata-54			
 For and on Behalf of DAMODAR VALLEY CORPORATION CHIEF ENGINEER (CIVIL), MAITHON DAM, DHANBAD, JHARKHAND			

Note: It is mandatory for acknowledgement of Payment details at the following emails : dvcwater@gmail.com; lomas.kumar@dvc.gov.in; CHATURVEDI -@chaturvedi@nptcl.co.in

Digitally signed by RASHANT CHATURVEDI  
 Date: 2024.08.02 22:04:08 IST  
 Reason: AGA (Commercial)  
 Location: NTPC Ltd



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10 ) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01.04.2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

#### REVISED WATER TARIFF w.e.f. 01.04.2022 FOR DOMESTIC/MUNICIPALITY/PHED AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. **01.04.2022**

2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/ PHED	
	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023	Old Rate w.e.f. 01/04/2021 to 31/03/2022	Revised Rate w.e.f. 01/04/2022 to 31/03/2023
Reservoir / River ( Per KL )	Rs. 12.874	Rs. 14.162	Rs. 1.902	Rs. 1.997
Extra Charges for drawing water from water supply canal ( Per KL)	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

(i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.

(ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

#### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Maithon Dam, Dhanbad, Pin- 828 207.

2. This bill is payable within thirty days of its presentation. Late payment shall attract Delay Payment Surcharge per month as per agreement executed with DVC.

3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

#### Details for Payment through RTGS

Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBBCH	
DVC's Account Number : 0082250010682.	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT  
CHATURVEDI - <prashant@ntpc.co.in>

Digitally signed by PRASHANT  
CHATURVEDI  
Date: 2024.03.22:04:08 IST  
Reason: AGA (Commercial)  
Location: NTPC Ltd





# DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम



OFFICE OF THE CHIEF ENGINEER (CIVIL),

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 826207

Ref. No. : CE (C) / Tariff / 25-24 / NK / 169 / Bill - 246

Date: 01-August-2023

BILL FOR RAW WATER DURING THE PERIOD FROM

01-07-2023 To 31-07-2023

BILL FOR RAW WATER FOR

**NTPC, NORTH KANPUR SUPER THERMAL POWER PROJECT**

To,  
The General Manager (O & M), NTPC, North Kanpur Super Thermal Power Project, Tanda, Dist. Chattra, Jharkhand, PIN- 825435

BILL NO. CE(C) / Tariff / NK / 169 / 2

BILL DATE : 01-08-2023

DUE DATE : 31-08-2023

Sanctioned Allocation : 12.05 MGD As per sanction of DVERC

Agreement Expired on : 18-September-2020, Term of Agreement : 5 Years

Total DVC Land fee temporary use/ Occupation of : Nil

Method of Measurement : Meter Reading

Billing Month : July-2023

Number of Days in the Month : 31

Actual Withdrawal : 10.793 MGD

## DESCRIPTION

Source of Water Drawal				River Gathi, a tributary of Damodar River				
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Withdrawal Quantity for Bill upto allocated quantity (Gallon)	Withdrawal Quantity upto allocated quantity (Kilo Liter)	Drawal rate per Kilo Liter (Rs.)	Withdrawal Quantity above allocated quantity (Gallon)	Withdrawal Quantity above allocated quantity (Kilo Liter)	Drawal rate above allocation quantity per Kilo Liter i.e. 2 (Two times of normal rate (Rs.))	Amount (Rs.)
	(i) col.	(ii) col.	(iii) col. = (ii) col. X 0.00454556	(iv) col.	(v) col.	(vi) col. = (v) col. X 0.00454556	(vii) col.	(viii) col. = (i) col. X (iv) col. + (v) col. X (vii) col.
Prescriptive Right	0.00							
Domestic	0.00	0	0.0000	0	0	0.000	0.00	0.00
Industrial	334586753.95	334586754	1521018.0000	15.578	0	0.000	0.00	23694418.40
Extra charges for drawing water for Industrial from Water Supply Canal (Per KL.) :				0				0.00
(10 %) Incentive for Zero Effluent Discharge, if paid								0.00
							Adjustment, if any	0.00
							Total Charges	23694418.40
Total Charges (for the current month) E. & O.E				( Two Crore Thirty Six Lakh Ninety Four Thousand Four Hundred Eighteen Only )			Say (Rs.) (A)	23,694,418
				Outstanding Dues (Rs.) (B)				0
				Delay Payment Surcharge (Rs.) (C)				0
Total Dues (A+B+C ) Payable Amount(Rs.)				( Two Crore Thirty Six Lakh Ninety Four Thousand Four Hundred Eighteen Only )				23,694,418

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

*[Signature]*  
For and on Behalf of

CHIEF ENGINEER (CIVIL)

DAMODAR VALLEY CORPORATION

MAITHON DAM, DHANBAD, JHARKHAND

### Details for Payment through RTGS:

Bank : PUNJAB NATIONAL BANK, Branch : New Manikata ( SOL 0082), VIP Road, Kolkata-54, MICR Code : 700024261,  
Branch Code: 8220, SWIFT Code : PUNBINBBCC, DVC's Virtual Account Number : DVCPN0503DVC910169, IFSC : PUNB0008220. ('0' Stands for Zero)



Document certified by PRASHANT CHATURVEDI - prashant@ntpc.co.in

Digitally signed by PRASHANT CHATURVEDI

Date: 2023.08.02 22:04:08 IST Reason: Admin (Internal)

Location: NTPC Ltd

It is mandatory for acknowledgement of Payment details at the following emails dvcwater@gmail.com; sanjeevkumar.1@ntpc.gov.in Please see important





## DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम



OFFICE OF THE CHIEF ENGINEER (CIVIL),

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 828207

Ref. No. : CE (C) / TWH/23-24 / NK / 169 / B- 330

Date: 02-September-2023

BILL FOR RAW WATER DURING THE PERIOD FROM

01-08-2023 To 31-08-2023

BILL FOR RAW WATER FOR

NTPC, NORTH KARANPURA SUPER THERMAL  
POWER PROJECT

To,

The General Manager (O & M), NTPC, North Karanpura Super  
Thermal Power Project, Tandwa, Dist. Chota, Jharkhand, PIN-  
828415

BILL NO. : CE (C) / TWH / NK / 169 / B

BILL DATE : 02-09-2023

DUE DATE : 02-10-2023

Sanctioned Allocation : 12.00 MGD As per sanction of DVRPC

Agreement Executed on : 18-September-2020, Termate of Agreement : 5  
Years

Total DVC Land for temporary use/ Occupation of : Nil

Method of Measurement : Moire Reading

Billing Month : August-2023

Number of Days in the  
Month : 31

Actual Withdrawal : 22.766 MGD

## DESCRIPTION

Source of Water Drawal

River Garhi, a tributary of Damodar River

Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Withdrawal Quantity for Bill upto allocated quantity (Gallon)	Withdrawal Quantity upto allocated quantity (Kilo Litre)	Drawal rate per Kilo Litre (Rs.)	Withdrawal Quantity above allocated quantity (Gallon)	Withdrawal Quantity above allocated quantity (Kilo Litre)	Drawal rate above allocation quantity per Kilo Litre i.e. 2 (Two times of normal rate (Rs.))	Amount (Rs.)
	(I) col.	(II) col.	(III) col. = (II) col. X 0.00454545	(IV) col.	(V) col.	(VI) col. = (V) col. X 0.00454545	(VII) col.	(VIII) col. = (I) col. X (IV) col. + (V) col. X (VII) col.)

Prescriptive  
Right

0.00

Domestic

0.00

0

0.0000

0

0

0.0000

0.00

0.00

Industrial

705065376.75

705065376.7

3205199.0000

11.574

0

0.0000

0.00

49930590.02

Extra charges for drawing water for Industrial from Water Supply  
Canal (Per KL) :

0

0.00

(10 %) Incentive for Zero Effluent Discharge, if paid

0.00

Adjustment, if any

0.00

Total Charges

49930590.02

Total Charges (for the current month) E &amp; O.E

{ Four Crore Ninety Nine Lakh Thirty Thousand Five  
Hundred Ninety Only }

Say (Rs.) (A)

49,930,590

Outstanding Dues (Rs.) (B)

0

Delay Payment Surcharge (Rs.) (C)

0

Total Dues (A+B+C)  
Payable Amount (Rs.){ Four Crore Ninety Nine Lakh Thirty Thousand Five Hundred  
Ninety Only }

49,930,590

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

For and on behalf of

CHIEF ENGINEER (CIVIL)

DAMODAR VALLEY CORPORATION

MAITHON DAM, DHANBAD, JHARKHAND

Details for Payment through RTGS:

Bank : PUNJAB NATIONAL BANK, Branch : New Manicktala ( SCL  
0082), VIP Road, Kolkata-54, MICR Code : 700024261, Branch Code:  
8220, SWIFT Code : PUNBINBBCH, DVC's Virtual Account Number :  
DVCPNB0503DVC910169, IFSC : PUNB0008220. (0' Stands for Zero)

Note: It is mandatory for acknowledgement of Payment details at the following email: dvcwater@gmail.com; sanjeevkumar.1@dvc.gov.in Please see important notice on the

Document certified by PRASHANT  
CHATURVEDI - prashant@ntpc.co.inDigitally signed by PRASHANT  
CHATURVEDI

Date: 2024.09.22:04:08 IST

Reason: AGA Commercial

Location: NTPC Ltd



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10 ) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01.04.2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

#### REVISED WATER TARIFF w.e.f. 01.04.2023 FOR DOMESTIC/MUNICIPALITY/PHED AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. 01.04.2023
2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/ PHED	
	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024
Reservoir / River ( Per KL )	Rs. 14.162	Rs. 15.578	Rs. 1.997	Rs. 2.097
Extra Charges for drawing water from water supply canal ( Per KL)	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

- (i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.
- (ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

#### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Maithon Dam, Dhanbad, Pin- 828 207.

2. This bill is payable within thirty days of its presentation. Late payment shall attract Delay Payment Surcharge per month as per agreement executed with DVC.

3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

#### Details for Payment through RTGS

Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBBCC	
DVC's Virtual Account Number : DVCPNB0503DVC910169	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT  
GHATURVEDI - gchaturvedi@npsc.co.in

Digitally signed by PRASHANT  
GHATURVEDI  
Date: 2024.04.30 22:04:08 IST  
Reason: AGA Commercial  
Location: NTPC Ltd





## DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम



OFFICE OF THE CHIEF ENGINEER (CIVIL),

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 828207

Ref No : CE (C) / Tariff / 23-24 / NK / 169 / 01 - 406

Date: 06-October-2023

BILL FOR RAW WATER DURING THE PERIOD FROM

01-09-2023 To 30-09-2023

BILL FOR RAW WATER FOR

NTPC, NORTH KARANPURA SUPER THERMAL  
POWER PROJECTTo,  
The General Manager (O & M), NTPC, North Karanpura Super  
Thermal Power Project, Tandwa, Dist- Chatra, Jharkhand, PIN-  
825415

BILL NO. CE (C) / Tariff / NK / 169 / 9

BILL DATE : 06-10-2023

DUE DATE : 05-11-2023

Sanctioned Allocation : 12.03 MGD As per sanction of DVRRC

Agreement Executed on : 18-September-2020, Tenure of Agreement : 5  
Years

Total DVC Land for temporary use/ Occupation of : Nil

Method of Measurement : Meter Reading

Billing Month : September-2023

Number of Days in the  
Month : 30

Actual Withdrawal : 38.62 MGD

## DESCRIPTION

Source of Water Drawal				River Garbi, a tributary of Damodar River				Amount (Rs.)
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Withdrawal Quantity for Bill upto allocated quantity (Gallon)	Withdrawal Quantity upto allocated quantity (Kilo Litre)	Drawal rate per Kilo Litre (Rs.)	Withdrawal Quantity above allocated quantity (Gallon)	Withdrawal Quantity above allocated quantity (Kilo Litre)	Drawal rate above allocation quantity per Kilo Litre i.e. 3 (Two times of normal rate (Rs.))	
	(B) col	(C) col	(D) col = (C) col X 0.0045454545	(E) col	(F) col	(G) col = (F) col X 0.0045454545	(H) col	(I) col = (B) col X (E) col + (F) col X (H) col
Prescriptive Right	0.00							0.00
Domestic	0.00	0	0.0000	0	0	0.000	0.00	0.00
Industrial	1155586938.73	1155586939	5253252.0000	15.578	0	0.000	0.00	81835159.66
Extra charges for drawing water for Industrial from Water Supply Canal (Per KL.) :				0				0.00
(10 %) Incentive for Zero Effluent Discharge, if paid								0.00
				Adjustment, if any				0.00
				Total Charges				81835159.66
Total Charges (for the current month) E. & O. E.				( Eight Crore Eighteen Lakh Thirty Five Thousand One Hundred Sixty Only )			Say (Rs.) (A)	81,835,160
				Outstanding Dues (Rs.) (B)				0
				Delay Payment Surcharge (Rs.) (C)				0
Total Dues (A+B+C) Payable Amount (Rs.)				( Eight Crore Eighteen Lakh Thirty Five Thousand One Hundred Sixty Only )				81,835,160

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

For and on behalf of  
CHIEF ENGINEER (CIVIL),DAMODAR VALLEY CORPORATION  
MAITHON DAM, DHANBAD, JHARKHAND

## Details for Payment through RTGS:

Bank : PUNJAB NATIONAL BANK, Branch : New Manicktala [ SOL  
0082], VIP Road, Kolkata-54, MICR Code : 700024261, Branch Code:  
8220, SWIFT Code : PUNBINBBCH, DVC's Virtual Account Number :  
DVCN80503DVC910169, IFSC : PUNB0008220. ('0' Stands for Zero)Note: It is mandatory for acknowledgement of Payment details at the following email: dvcwater@gmail.com; sanjeevkumar.1@dvc.gov.in  
Document certified by PRASHANT  
CHATURVEDI - prashant@sanjeevkumar.1@dvc.gov.in  
Digitally signed by PRASHANT  
CHATURVEDI  
Date: 2024.09.22:04:08 IST  
Reason: AGA (Commercial)  
Location: NTPC Ltd



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10 ) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01.04.2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

### REVISED WATER TARIFF w.e.f. 01.04.2023 FOR DOMESTIC/MUNICIPALITY/PHED AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. 01.04.2023.
2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/ PHED	
	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024
Reservoir / River ( Per KL )	Rs. 14.162	Rs. 15.578	Rs. 1.997	Rs. 2.097
Extra Charges for drawing water from water supply canal ( Per KL)	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

- (i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.
- (ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Maithon Dam, Dhanbad, Pin- 828 207.

2. This bill is payable within thirty days of its presentation. Late payment shall attract Delay Payment Surcharge per month as per agreement executed with DVC.

3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

### Details for Payment through RTGS

Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBCCCH	
DVC's Virtual Account Number : DVCPN80503DVC910169	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT  
CHATURVEDI - spchaturvedi@ntpc.co.in

Digitally signed by PRASHANT  
CHATURVEDI  
Date: 2024.05.22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd





## DAMODAR VALLEY CORPORATION

दामोदर घाटी निगम



OFFICE OF THE CHIEF ENGINEER (CIVIL),

P. O. - MAITHON DAM, DHANBAD, JHARKHAND, PIN - 826207

Ref. No. : CE (C) / Tariff / NK / 160 / 10 - 476

Date: 01-November-2023

BILL FOR RAW WATER DURING THE PERIOD FROM

01-10-2023 To 31-10-2023

BILL FOR RAW WATER FOR

**NTPC, NORTH KARANPURA SUPER THERMAL  
POWER PROJECT**To,  
The General Manager (O & M), NTPC, North Karanpura Super  
Thermal Power Project, Tandwa, Dist.- Chatra, Jharkhand, PIN-  
825415

BILL NO. CE (C) / Tariff / NK / 160 / 10

BILL DATE : 01-11-2023

DUE DATE : 01-12-2023

Sanctioned Allocation : 12.05 MGD As per sanction of DVCRC

Agreement Executed on : 18-September-2020, Tenure of Agreement : 5  
Years

Total DVC Land for temporary use/ Occupation of : Nil

Method of Measurement : Meter Reading

Billing Month : October-2023

Number of Days in the  
Month : 31

Actual Withdrawal : 20.23 MGD

## DESCRIPTION

Source of Water Drawal				River Gathi, a tributary of Damodar River				Amount (Rs.)
Purpose for water withdrawal	Actual withdrawal Quantity (Gallon)	Withdrawal Quantity for Bill upto allocated quantity (Gallon)	Withdrawal Quantity upto allocated quantity (Kilo Litre)	Drawal rate per Kilo Litre (Rs.)	Withdrawal Quantity above allocated quantity (Gallon)	Withdrawal Quantity above allocated quantity (Kilo Litre)	Drawal rate above allocation quantity per Kilo Litre i.e. 2 (Two times of normal rate (Rs.))	
	(I) col.	(II) col.	(III) col. = (II) col. X 0.00454545	(IV) col.	(V) col.	(VI) col. = (V) col. X 0.00454545	(VII) col.	(VIII) col. = (III) col. X (IV) col. + (VI) col. X (VII) col.)
Prescriptive Right	0.00							
Domestic	0.00	0	0.0000	0	0	0.000	0.00	0.00
Industrial	627121444.10	627121444.1	2850869.0000	15.578	0	0.000	0.00	44416837.28
Extra charges for drawing water for Industrial from Water Supply Canal (Per KL) :				0				0.00
(10 %) Incentive for Zero Effluent Discharge, if paid								0.00
							Adjustment, if any	0.00
							Total Charges	44416837.28
Total Charges (for the current month) R & O.E				( Four Crore Forty Four Lakh Ten Thousand Eight Hundred Thirty Seven Only )			Say (Rs.) (A)	44,416,837
				Outstanding Dues (Rs.) (B)				0
				Delay Payment Surcharge (Rs.) (C)				0
Total Dues (A+B+C) Payable Amount (Rs.)				( Four Crore Forty Four Lakh Ten Thousand Eight Hundred Thirty Seven Only )				44,416,837

COPY To:

1. The G. M. (Finance), DVC Towers, Kolkata-54

For and on Behalf of

CHIEF ENGINEER (CIVIL),

DAMODAR VALLEY CORPORATION

MAITHON DAM, DHANBAD, JHARKHAND

## Details for Payment through RTGS:

Bank : PUNJAB NATIONAL BANK, Branch : New Manicktala ( SOL  
0082), VIP Road, Kolkata-54, MICR Code : 700024261, Branch Code:  
8220, SWIFT Code : PUNBIN88CCH, DVC's Virtual Account Number :  
DVCN00503DVC910169, IFSC : PUNB0008220. ('0' Stands for Zero)

Note: It is mandatory for acknowledgment of Payment details at the following emails : dvcwater@gmail.com; sanjoovkumar.1@gmail.com; Please see important notice overleaf

CHATURVEDI - pchaturvedi@nptcl.co.in

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CHATURVEDI

Date: 2024.10.22:04:08 IST

Reason: AGA (Commercial)

Location: NTPC Ltd



## NOTICE

### REVISION OF WATER TARIFF FOR SUPPLY OF RAW WATER FOR INDUSTRIAL & DOMESTIC USES

Damodar Valley Corporation (DVC) has revised, vide Resolution No.- 8900 (Agenda Item No. - 10 ) of 641 meeting of Corporation held on 25th June 2019, the rate for Industrial & Domestic Water Supply of raw water with effect from 01.04.2019 in exercise of its power under section 15 of the DVC Act 1948 & as per Clause No.- 11(a) of the agreement executed between DVC & Consumers based on the allocation of water by DVRRC ( Damodar Valley Reservoir Regulation Committee). To stress upon the need for reducing water pollution, a scheme of 10 % incentive has been continued for 'Zero Effluent Discharge'.

### REVISED WATER TARIFF w.e.f. 01.04.2023 FOR DOMESTIC/MUNICIPALITY/PHED AND INDUSTRIAL WATER SUPPLY

1. Damodar Valley Corporation has revised Water Tariff of Raw Water for Industrial & Domestic supply w.e.f. 01.04.2023
2. The Revised water tariff for drawal of water from DVC sources as under:

SOURCES OF DRAWAL	INDUSTRIES		DOMESTIC/MUNICIPALITY/ PHED	
	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024	Old Rate w.e.f. 01/04/2022 to 31/03/2023	Revised Rate w.e.f. 01/04/2023 to 31/03/2024
Reservoir / River ( Per KL )	Rs. 14.162	Rs. 15.578	Rs. 1.997	Rs. 2.097
Extra Charges for drawing water from water supply canal ( Per KL)	Rs. 0.52			

3. The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

(i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.

(ii) For Industrial use - 10% shall be increased in raw water tariff annually.

4. The water supply bills shall be raised on the basis of actual drawal of water for all the consumers with the tariff as indicated above.

### टिप्पणी / NOTE

1. The payments may please be made in RTGS/DD/crossed cheques drawn in favour of the Damodar Valley Corporation, Kolkata, with intimation to the Chief Engineer (Civil), DVC, Malihon Dam, Dhanbad, Pin- 828 207.

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3. Please mention the Bill No. & Date and also the billing month in the forwarding letter while sending the cheque.

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Bank : PUNJAB NATIONAL BANK	
Branch : New Manicktala ( SOL 0082), VIP Road, Kolkata-54.	
MICR Code : 700024261	Branch Code: 8220
SWIFT Code : PUNBINBBCCH	
DVC's Virtual Account Number : DVCPNB0503DVC910169	
IFSC : PUNB0008220. ('0' Stands for Zero)	

Document certified by PRASHANT  
CHATURVEDI - spchaturvedi@ntpc.co.in

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CHATURVEDI  
Date: 2024.05.22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd  
Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	April 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	65,079.64	
2	Value of stock		13,60,19,079.68	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	3,40,528.30	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	3,40,528.30	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	681.06	
7	Net coal / Lignite Supplied (3-4)	(MT)	3,39,847.24	
8	Amount charged by the Coal /Lignite Company	(Rs.)	63,33,68,065.28	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		29,39,881.12	
11	Total amount Charged (8+9+10)	(Rs.)	63,63,07,946.40	
12	Transportation charges by rail/ship/road transport	(Rs.)	5,84,18,232.05	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	5,84,18,232.05	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	69,47,26,178.45	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,051.59	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,051.59	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,949.00	
22	GCV of domestic coal as per bill of coal company	(kCal/Kg)	3,948.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,948.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,417.00	
27	GCV of domestic coal supplied as recived at station	(kCal/Kg)	3,400.00	
28	GCV of imported coal of opening stock as recived at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,403.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,403.00	

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Document certified by PRASHANT CHATURVEDI  
Date: 2024.09.14 12:59:05 +05'30'  
For M.C. Bhargava & Co. Chartered Accountants  
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Date: 2024.09.30 22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd



# AUDITED FORM'15

PART-I  
FORM- 15

(Provisional)

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

Name of the Petitioner: NTPC Ltd

Name of the Generating Station: Northkarnpura Super Thermal Power Project

		Unit	May 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	1,02,211.49	
2	Value of stock		20,96,96,394.05	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	3,77,022.57	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	3,77,022.57	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	754.05	
7	Net coal / Lignite Supplied (3-4)	(MT)	3,76,268.52	
8	Amount charged by the Coal /Lignite Company	(Rs.)	70,00,12,082.28	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		32,54,945.98	
11	Total amount Charged (8+9+10)	(Rs.)	70,32,67,009.10	
12	Transportation charges by rail/ship/road transport	(Rs.)	6,46,78,888.61	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	6,46,78,888.61	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	76,79,45,897.71	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,043.22	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,043.22	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,948.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	3,866.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	3,884.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,403.00	
27	GCV of domestic coal supplied as recived at station	(kCal/Kg)	3,685.00	
28	GCV of imported coal of opening stock as recived at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,625.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,625.00	

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For M.C. Bhandari & Co.  
Chartered Accountants  
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CHATURVEDI  
Date: 2024.11.30 22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd



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

Name of the Petitioner: **NTPC Ltd**

Name of the Generating Station: **Northkarnapura Super Thermal Power Project**

		Unit	June 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,08,835.01	
2	Value of stock		42,82,88,258.65	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	3,03,106.05	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	3,03,106.05	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	606.21	
7	Net coal / Lignite Supplied (3-4)	(MT)	3,02,499.84	
8	Amount charged by the Coal / Lignite Company	(Rs.)	56,53,96,157.59	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		26,16,503.81	
11	Total amount Charged (8+9+10)	(Rs.)	56,60,12,961.40	
12	Transportation charges by rail/ship/road transport	(Rs.)	5,19,98,378.89	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	5,19,98,378.89	
17	Total amount Charged for coal/ lignite supplied including Transportation (11+16)	(Rs.)	61,80,11,340.29	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,043.10	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,043.10	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,884.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	3,733.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,795.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,625.00	
27	GCV of domestic coal supplied as recived at station	(kCal/Kg)	3,638.00	
28	GCV of imported coal of opening stock as recived at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,633.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,633.00	

**Sonali Rani**  
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**Sanjay Sinha**  
Digitally signed by Sanjay Sinha  
Date: 2024.08.21 17:56:48 +05'30'

**AMIT BISWAS**  
Digitally signed by AMIT BISWAS  
Document certified by PRASHANT CHATURVEDI <pchaturved09@ntpc.co.in>  
Date: 2024.08.21 13:00:09 +05'30'

**PRASHANT CHATURVEDI**  
Digitally signed by PRASHANT CHATURVEDI  
For M.C. Bhandari & Co. Chartered Accountants  
Date: 2024.11.30 22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd  
Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	July 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,39,961.41	0
2	Value of stock		49,35,05,877.56	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	2,92,850.32	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	2,92,850.32	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	585.70	
7	Net coal / Lignite Supplied (3-4)	(MT)	2,92,264.62	
8	Amount charged by the Coal /Lignite Company	(Rs.)	54,80,00,452.97	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges			
11	Total amount Charged (8+9+10)	(Rs.)	54,80,00,452.97	
12	Transportation charges by rail/ship/road transport	(Rs.)	4,07,42,471.62	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	4,07,42,471.62	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	58,87,42,924.59	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,033.44	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,033.44	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,795.00	
22	GCV of domestic coal as per bill of coal company	(kCal/Kg)	3,967.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,889.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,633.00	
27	GCV of domestic coal supplied as recived at station	(kCal/Kg)	3,556.00	
28	GCV of imported coal of opening stock as recived at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,591.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,591.00	

**Sonali Rani**  
Digitally signed by Sonali Rani  
Date: 2024.05.23 12:45:17 +05'30'

**Sanjay Sinha**  
Digitally signed by Sanjay Sinha  
Date: 2024.08.21 18:14:21 +05'30'

**AMIT BISWAS**  
Document certified by PRASHANT CHATURVEDI  
Digitally signed by PRASHANT CHATURVEDI  
Date: 2024.08.14 22:04:08 IST  
Reason: AGM (Commercial)  
Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd

Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	Aug 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,62,427.03	0
2	Value of stock		53,36,29,180.83	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	2,78,552.87	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	2,78,552.87	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	557.11	
7	Net coal / Lignite Supplied (3-4)	(MT)	2,77,995.76	
8	Amount charged by the Coal /Lignite Company	(Rs.)	52,23,54,391.31	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		61,879.72	
11	Total amount Charged (8+9+10)	(Rs.)	52,24,16,271.03	
12	Transportation charges by rail/ship/road transport	(Rs.)	4,30,02,309.14	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	4,30,02,309.14	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	56,54,18,580.17	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,033.68	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,033.68	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,889.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	3,931.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,910.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,591.00	
27	GCV of domestic coal supplied as received at station	(kCal/Kg)	3,563.00	
28	GCV of imported coal of opening stock as received at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,577.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,577.00	

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Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd

Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	Sep 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,58,840.80	0
2	Value of stock		52,63,99,700.41	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	2,52,900.60	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	2,52,900.60	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	505.80	
7	Net coal / Lignite Supplied (3-4)	(MT)	2,52,394.80	
8	Amount charged by the Coal / Lignite Company	(Rs.)	47,47,61,292.93	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges			
11	Total amount Charged (8+9+10)	(Rs.)	47,47,61,292.93	
12	Transportation charges by rail/ship/road transport	(Rs.)	3,16,37,564.29	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	3,16,37,564.29	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	50,63,98,857.22	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,020.20	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,020.20	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,910.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	3,905.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,908.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,577.00	
27	GCV of domestic coal supplied as received at station	(kCal/Kg)	3,328.00	
28	GCV of imported coal of opening stock as received at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,457.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,457.00	

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Chartered Accountants  
Reason: AGM (Commercial)  
Location: NTPC Ltd



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

Name of the Petitioner: **NTPC Ltd**  
Name of the Generating Station: **Northkarnapura Super Thermal Power Project**

		Unit	Oct 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,04,224.10	0
2	Value of stock		41,25,73,680.99	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	3,11,425.43	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	3,11,425.43	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	622.86	
7	Net coal / Lignite Supplied (3-4)	(MT)	<b>3,10,802.58</b>	
8	Amount charged by the Coal /Lignite Company	(Rs.)	59,03,51,572.66	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		48,48,078.56	
11	Total amount Charged (8+9+10)	(Rs.)	<b>59,51,99,651.26</b>	
12	Transportation charges by rail/ship/road transport	(Rs.)	4,65,04,645.12	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	<b>4,65,04,645.12</b>	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	<b>64,17,04,296.38</b>	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,047.04	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,047.04	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,908.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	4,026.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	3,978.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,457.00	
27	GCV of domestic coal supplied as recived at station	(kCal/Kg)	3,339.00	
28	GCV of imported coal of opening stock as recived at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,387.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,387.00	

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Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd

Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	Nov 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	2,08,315.98	0
2	Value of stock		42,64,30,232.53	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	4,26,920.02	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	4,26,920.02	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	853.84	
7	Net coal / Lignite Supplied (3-4)	(MT)	4,26,066.17	
8	Amount charged by the Coal / Lignite Company	(Rs.)	80,52,79,710.75	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		47,72,941.03	
11	Total amount Charged (8+9+10)	(Rs.)	81,00,52,651.78	
12	Transportation charges by rail/ship/road transport	(Rs.)	6,13,94,003.31	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	6,13,94,003.31	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	87,14,46,655.09	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,045.89	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,045.89	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	3,978.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	4,076.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	4,043.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,387.00	
27	GCV of domestic coal supplied as received at station	(kCal/Kg)	3,285.00	
28	GCV of imported coal of opening stock as received at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,320.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,320.00	

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Location: NTPC Ltd



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

Name of the Petitioner: NTPC Ltd

Name of the Generating Station: Northkarnapura Super Thermal Power Project

		Unit	Dec 2023	
			Domestic	Imported
1	Opening quantity of coal/Lignite	(MT)	3,03,851.15	0
2	Value of stock		62,16,46,407.99	
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	2,68,724.52	
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MT)	-	
5	Coal supplied by Coal/Lignite Company (3+4)	(MT)	2,68,724.52	
6	Normative Transit & Handling Losses (For coal/Lignite based Projects) @0.2%	(MT)	537.45	
7	Net coal / Lignite Supplied (3-4)	(MT)	2,68,187.07	
8	Amount charged by the Coal /Lignite Company	(Rs.)	51,22,51,295.27	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0.00	
10	Handling, Sampling and such other similar charges		47,03,349.59	
11	Total amount Charged (8+9+10)	(Rs.)	51,69,54,644.86	
12	Transportation charges by rail/ship/road transport	(Rs.)	3,92,42,757.05	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	Nil	
14	Demurrage Charges, if any	(Rs.)	0.00	
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	3,92,42,757.05	
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	(Rs.)	55,61,97,401.91	
18	Landed cost of coal/ Lignite (2+17)/(1+7)	(Rs./MT)	2,059.03	
19	Blending Ratio (Domestic/Imported)	%	N/A	
20	Weighted average cost of coal/Lignite for preceding three months	(Rs./MT)	2,059.03	
21	GCV of Domestic of the opening coal stock as per bill of coal company	(kCal/Kg)	4,043.00	
22	GCV of domestic coal as per bill of coal company.	(kCal/Kg)	3,960.00	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)	N/A	
24	GCV of imported coal supplied as per bill coal company	(kCal/Kg)	N/A	
25	Weighted average GCV of coal/Lignite as Billed	(kCal/Kg)	4,005.00	
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3,320.00	
27	GCV of domestic coal supplied as received at station	(kCal/Kg)	3,294.00	
28	GCV of imported coal of opening stock as received at station	(kCal/Kg)	N/A	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)	N/A	
30	Weighted average GCV of coal/Lignite as Received	(kCal/Kg)	3,308.00	
30(a)	Weighted average GCV of coal/Lignite as Received (including Imported Coal)	(kCal/Kg)	3,308.00	

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For Mr. Prashant Chaturvedi  
Chartered Accountant  
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Location: NTPC Ltd







Details of Sourcewise fuel for computation of Energy Charges

Company		NTPC Limited	
Name of the generating Station		North Karanpura Thermal Power-STAGE 01	
Month		February-2024	
SL	Particulars	Unit	COAL-DOMESTIC
A)	OPENING QUANTITY		
1	Opening Stock of coal	MT	138652.17
2	Value of Stock	Rs.	275045838.97
B)	QUANTITY		
3	Quantity of Coal /Lignite supplied by Coal / Lignite Company	MT	461415.20
3.01	- Qty Received (Pit Head)	MT	461415.20
3.02	- Qty Received (Non Pit Head)	MT	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	461415.20
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	922.83
6.01	- Normative Loss (Pit Head)	MT	922.83
6.02	- Normative Loss (Non Pit Head)	MT	0.00
7	Net Coal / Lignite supplied (5 - 6)	MT	460492.37
C)	PRICE		
8	Amount charged by the Coal / Lignite Company	Rs.	841593384.00
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00
10	Handling, Sampling and such other Similar charges	Rs.	3649814.27
11	Total Amount charged (8 +9+10)	Rs.	845243198.27
D)	TRANSPORTATION		
12	Transportation charges by Rail / Ship / Road Transport	Rs.	86663034.35
13	Adjustment (+/-) in amount charged by railways / transport company	Rs.	0.00
14	Demurrage charges, if any	Rs.	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	86663034.35
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	931906232.62
E)	TOTAL COST		
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	2014.46
19	Blending Ratio (Domestic/Imported)	%	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	2014.46
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	2014.46
F)	QUALITY		
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	3983
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	3828
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0
24	GCV of Imported coal supplied as per bill of coal company	kCal/Kg	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3884
25.10	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3884
26	GCV of Domestic coal of the Opening stock as received at station	kCal/Kg	3289
27	GCV of Domestic coal/biomass supplied as received at station	kCal/Kg	3321
28	GCV of Imported coal of the Opening stock as received at station	kCal/Kg	0
29	GCV of Imported coal supplied as received at station	kCal/Kg	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3314
30.10	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3314

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Details of Sourcewise fuel for computation of Energy Charges

Company		NTPC Limited	
Name of the generating Station		North Karanpura Thermal Power-STAGE 01	
Month		March-2024	
SL	Particulars	Unit	COAL-DOMESTIC
A)	OPENING QUANTITY		
1	Opening Stock of coal	MT	221824.54
2	Value of Stock	Rs.	446856425.51
B)	QUANTITY		
3	Quantity of Coal /Lignite supplied by Coal / Lignite Company	MT	501035.50
3.01	- Qty Received (Pit Head)	MT	501035.50
3.02	- Qty Received (Non Pit Head)	MT	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	501035.50
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	1082.07
6.01	- Normative Loss (Pit Head)	MT	1082.07
6.02	- Normative Loss (Non Pit Head)	MT	0.00
7	Net Coal / Lignite supplied (5 - 6)	MT	500033.43
C)	PRICE		
8	Amount charged by the Coal / Lignite Company	Rs.	939133311.00
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00
10	Handling, Sampling and such other Similar charges	Rs.	3913121.34
11	Total Amount charged (8 + 9+ 10)	Rs.	943046432.34
D)	TRANSPORTATION		
12	Transportation charges by Rail / Ship / Road Transport	Rs.	104950402.11
13	Adjustment (+/-) in amount charged by railways / transport company	Rs.	0.00
14	Demurrage charges, if any	Rs.	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	104950402.11
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	1047996834.45
E)	TOTAL COST		
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	2070.84
19	Blending Ratio (Domestic/Imported)	%	100.00
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	2070.84
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	2070.84
F)	QUALITY		
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	3864
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	3904
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0
24	GCV of Imported coal supplied as per bill of coal company	kCal/Kg	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	3892
25.10	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	3892
26	GCV of Domestic coal of the Opening stock as received at station	kCal/Kg	3314
27	GCV of Domestic coal/biomass supplied as received at station	kCal/Kg	3476
28	GCV of Imported coal of the Opening stock as received at station	kCal/Kg	0
29	GCV of Imported coal supplied as received at station	kCal/Kg	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3426
30.10	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3426

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**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Apr-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	4971.30
2	Value of Opening Stock	(Rs.)	437352225.29
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	165.91
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	165.91
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	165.91
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	8747855.49
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	8747855.49
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	8747855.49
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	86837.02
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	86837.02
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9306

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnapura Super Thermal Power Project

S. No.	Month	Unit	May-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	4932.88
2	Value of Opening Stock	(Rs.)	428080081.05
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	0.00
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	0.00
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	0.00
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	0.00
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	0.00
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	0.00
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	86781.02
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	86781.02
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9306

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Jun-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	4508.68
2	Value of Opening Stock	(Rs.)	390670771.86
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	530.75
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	530.75
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	530.75
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	40544396.20
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	40544396.20
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	40544396.20
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	85568.21
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	85568.21
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9313

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Jul-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	4446.85
2	Value of Opening Stock	(Rs.)	379739959.15
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	1854.95
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	1854.95
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	1854.95
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	146963164.04
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	146963164.04
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	146963164.04
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83579.80
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83579.80
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9256

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Aug-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	5702.90
2	Value of Opening Stock	(Rs.)	474511218.15
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	1151.51
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	1151.51
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	1151.51
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	99319365.51
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	99319365.51
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	99319365.51
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83716.95
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83716.95
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9296

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Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Sep-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	5278.96
2	Value of Opening Stock	(Rs.)	441963750.81
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	0.00
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	0.00
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	0.00
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	0.00
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	0.00
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	0.00
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83721.77
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83721.77
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9268

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Reason: AGM (Commercial)  
Location: NTPC Ltd



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Oct-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	5030.34
2	Value of Opening Stock	(Rs.)	42042444.19
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	488.37
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	488.37
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	488.37
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	46208664.60
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	46208664.60
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	46208664.60
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	84554.70
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	84554.70
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9326

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Reason: AGM (Commercial)  
Location: NTPC Ltd  
Chartered Accountants



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Nov-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	4858.32
2	Value of Opening Stock	(Rs.)	410938017.65
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	3373.59
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	3373.59
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	3373.59
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	278095431.56
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	278095431.56
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	278095431.56
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83702.76
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83702.76
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9421

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**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnpura Super Thermal Power Project

S. No.	Month	Unit	Dec-23
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	5561.42
2	Value of Opening Stock	(Rs.)	470042306.50
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	1843.31
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	1843.31
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	1843.31
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	149634488.47
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	149634488.47
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	149634488.47
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83686.65
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83686.65
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9430

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Chartered Accountants



**FORM- 15 : Details of Secondary Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Northkarnapura Super Thermal Power Project

S. No.	Month	Unit	Jan-24
			LDO
			M1149200900
<b>A)</b>	<b>OPENING QUANTITY</b>		
1	Opening Stock of Oil	(KL)	3619.06
2	Value of Opening Stock	(Rs.)	310018857.22
<b>B)</b>	<b>QUANTITY</b>		
3	Quantity of Secondary Fuel/ supplied by Secondary Fuel/ Company	(KL)	2803.19
4	Adjustment (-) in quantity supplied by Secondary Fuel/ Company	(KL)	0.00
5	Secondary Fuel Supplied by Secondary Fuel / Company (3-4)	(KL)	2803.19
6	Normative transit & Handling losses (for Secondary Fuel / based projects)	(KL)	0.00
7	Net Secondary Fuel / supplied (5-6)	(KL)	2803.19
<b>C)</b>	<b>PRICE</b>		
8	Amount Charged by the Secondary Fuel/ Company	(Rs.)	223223379.82
9	Adjustment (+/-) in amount charged by Secondary Fuel/ Company	(Rs.)	0.00
10	Handling, Sampling & Such other similar charges	(Rs.)	0.00
11	Total Amount Charged (8+9+10)	(Rs.)	223223379.82
<b>D)</b>	<b>TRANSPORATION</b>		
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)	0.00
13	Adjustment (+/-) in amount charged by Rail/Ship/Road Company	(Rs.)	0.00
14	Demurrage charges , if any	(Rs.)	0.00
15	Cost of diesel in transporting Secondary Fuel through MGR system if applicable	(Rs.)	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	0.00
17	Total amount charged for Secondary Fuel/ supplied including transportation (11+16)	(Rs.)	223223379.82
18	Landed cost of Secondary Fuel (2+17) / (1+7)	Rs./KL	83030.43
19	Blending Ratio		1.00
20	Weighted Average Cost of Secondary Fuel/ For the month	Rs./KL	83030.43
<b>E)</b>	<b>QUALITY</b>		
21	GCV of Domestic Secondary Fuel of the opening Secondary Fuel stock as per bill of Secondary Fuel Company,	(kcal/L)	NA
22	GCV of Domestic Secondary Fuel supplied as per bill of Secondary Fuel Company,	(kcal/L)	NA
23	GCV of Imported Secondary Fuel of the opening stock as per bill Secondary Fuel Company,	(kcal/L)	
24	GCV of Imported Secondary Fuel supplied as per bill Secondary Fuel Company	(kcal/L)	
25	Weighted average GCV of Secondary Fuel/ as Billed	(kcal/L)	NA
26	GCV of Domestic Secondary Fuel of the opening stock as received at Station	(kcal/L)	0
27	GCV of Domestic Secondary Fuel supplied as received at Station	(kcal/L)	0
28	GCV of Imported Secondary Fuel of opening stock as received at Station	(kcal/L)	
29	GCV of Imported Secondary Fuel of supplied as received at Station	(kcal/L)	
30	Weighted average GCV of Secondary Fuel/ as Received	(kcal/L)	9408

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Location: NTPC Ltd



## Details of Sourcewise fuel for computation of Energy Charges

Company	NTPC Limited
Name of the generating Station	North Karanpura Thermal Power(STAGE 01)
Month	February-2024

SL	Particulars	Unit	LDO	HFO	HSD
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock Of Oil	KL	4168.966	0.000	0.000
2	Value Of Stock	Rs.	348191787.50	0.00	0.00
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity Of Oil Supplied By Oil Company	KL	2049.733	0.000	0.000
4	Adjustment (+/-) In Quantity Supplied Made By Oil Company	KL	0.000	0.000	0.000
5	Oil Supplied By Oil Company (3+4)	KL	2049.733	0.000	0.000
6	Normative Transit & Handling Losses	KL	0.000	0.000	0.000
7	Net Oil Supplied (5 - 6)	KL	2049.733	0.000	0.000
<b>C)</b>	<b>PRICE</b>				
8	Amount Charged By The Oil Company	Rs.	164533249.02	0.00	0.00
9	Adjustment (+ / -) In Amount Charged By Oil Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling And Such Other Similar Charges	Rs.	0.00	0.00	0.00
11	Total Amount Charged (8 +9+10)	Rs.	164533249.02	0.00	0.00
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation Charges By Rail / Ship / Road Transport	Rs.	0.00	0.00	0.00
13	Adjustment (+/-) In Amount Charged By Railways/Transport	Rs.	0.00	0.00	0.00
14	Demurrage Charges, If Any	Rs.	0.00	0.00	0.00
15	Cost Of Diesel In Transporting Coal Through MGR System	Rs.	0.00	0.00	0.00
16	Total Transportation Charges ( 12+/- 13 + 14 + 15 )	Rs.	0.00	0.00	0.00
17	Total Amount Charged For Oil Supplied Incl Transportation (11+16)	Rs.	164533249.02	0.00	0.00
<b>E)</b>	<b>TOTAL COST</b>				
18	Landed Cost Of Oil (LDO/HFO) ( 2+17 ) / (1+7)	Rs.	82448.92	0.00	0.00
19	Blending Ratio		1.000	0.000	0.000
20	Weighted Average Cost Of Oil	Rs.	82448.92		
<b>F)</b>	<b>QUALITY</b>				
21	GCV Of Oil Of The Opening Stock As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
22	GCV Of Oil Supplied As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
23	GCV Of Imported Oil Of The Op Stock As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
24	GCV Of Imported Oil Supplied As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
25	Weighted Average GCV Of Oil As Billed	Kcal/Ltr	0	0	0
26	GCV Of Oil Of The Opening Stock As Received At Station	Kcal/Ltr	0	0	0
27	GCV Of Oil Supplied	Kcal/Ltr	9264	0	0
28	GCV Of Imported Oil Of The Opening Stock As Received At Station	Kcal/Ltr	0	0	0
29	GCV Of Imported Oil Supplied As Received At Station	Kcal/Ltr	0	0	0
30	Weighted Average GCV Of Oil	Kcal/Ltr	9264		

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BISWAS**

For M.C. Bhandari & Co.  
Chartered Accountants

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## Details of Sourcewise fuel for computation of Energy Charges

Company	NTPC Limited
Name of the generating Station	North Karanpura Thermal Power(STAGE 01)
Month	March-2024

SL	Particulars	Unit	LDO	HFO	HSD
<b>A)</b>	<b>OPENING QUANTITY</b>				
1	Opening Stock Of Oil	KL	4547.869	0.000	0.000
2	Value Of Stock	Rs.	375150123.61	0.00	0.00
<b>B)</b>	<b>QUANTITY</b>				
3	Quantity Of Oil Supplied By Oil Company	KL	862.527	0.000	0.000
4	Adjustment (+/-) In Quantity Supplied Made By Oil Company	KL	0.000	0.000	0.000
5	Oil Supplied By Oil Company (3+4)	KL	862.527	0.000	0.000
6	Normative Transit & Handling Losses	KL	0.000	0.000	0.000
7	Net Oil Supplied (5 - 6)	KL	862.527	0.000	0.000
<b>C)</b>	<b>PRICE</b>				
8	Amount Charged By The Oil Company	Rs.	70952070.50	0.00	0.00
9	Adjustment (+ / -) In Amount Charged By Oil Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling And Such Other Similar Charges	Rs.	0.00	0.00	0.00
11	Total Amount Charged (8 +9+10)	Rs.	70952070.50	0.00	0.00
<b>D)</b>	<b>TRANSPORTATION</b>				
12	Transportation Charges By Rail / Ship / Road Transport	Rs.	0.00	0.00	0.00
13	Adjustment (+/-) In Amount Charged By Railways/Transport	Rs.	0.00	0.00	0.00
14	Demurrage Charges, If Any	Rs.	0.00	0.00	0.00
15	Cost Of Diesel In Transporting Oil Through MGR System	Rs.	0.00	0.00	0.00
16	Total Transportation Charges ( 12+/- 13 - 14 + 15 )	Rs.	0.00	0.00	0.00
17	Total Amount Charged For Oil Supplied Incl Transportation (11+16)	Rs.	70952070.50	0.00	0.00
<b>E)</b>	<b>TOTAL COST</b>				
18	Landed Cost Of Oil (LDO/HFO) ( 2+17 ) / (1+7)	Rs.	82452.78	0.00	0.00
19	Blending Ratio		1.000	0.000	0.000
20	Weighted Average Cost Of Oil	Rs.	82452.78		
<b>F)</b>	<b>QUALITY</b>				
21	GCV Of Oil Of The Opening Stock As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
22	GCV Of Oil Supplied As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
23	GCV Of Imported Oil Of The Op Stock As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
24	GCV Of Imported Oil Supplied As Per Bill Of Oil Company	Kcal/Ltr	0	0	0
25	Weighted Average GCV Of Oil As Billed	Kcal/Ltr	0	0	0
26	GCV Of Oil Of The Opening Stock As Received At Station	Kcal/Ltr	0	0	0
27	GCV Of Oil Supplied	Kcal/Ltr	9193	0	0
28	GCV Of Imported Oil Of The Opening Stock As Received At Station	Kcal/Ltr	0	0	0
29	GCV Of Imported Oil Supplied As Received At Station	Kcal/Ltr	0	0	0
30	Weighted Average GCV Of Oil	Kcal/Ltr	9193		

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For M.C. Bhandari & Co.

Chartered Accountants