

**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 **Khargone Super Thermal Power Station (1320 MW) for the period from 01.04.2024 to 31.03.2029.**

**INDEX**

<b>Sl. No.</b>	<b>Description</b>	<b>Page No.</b>
1	Summary of Issues	1-2
2	Petition for Approval of Tariff of Khargone STPS for 2024-29	3-12
3	Affidavit	13-14
4	Appendix-I (Tariff Forms)	15-126
5	Annexure-A/1	127-133
6	Annexure-A/2	134
7	Annexure-A/3	135-136
8	Annexure-A/4	137-228
9	Annexure-A/5	229-264
10	Annexure-A/6	265-267
11	Annexure-A/7	268-284
12	Annexure-A/8	285-292
13	Annexure-A/9	293-294
14	Annexure-A/10	295-296

Sl. No.	Description	Page No.
15	Annexure-A/11	297-298
16	Annexure-A/12	299
17	Form-15	300-311

**Summary of Issues: Determination of Tariff of Khargone Super Thermal Power Station (1320 MW) for the period 2024-29**

*(In compliance with CERC notice dated 07.06.2024)*

The major highlights of the Tariff Petition for Khargone Super Thermal Power Station (1320 MW) for determination of tariff for the period 2024-29 are as follows:

1. The present petition is being filed 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 determination of tariff of Khargone Super Thermal Power Station (1320 MW) (hereinafter referred as "Khargone STPS") for the 2024-29 based on projected expenditures for the said period.
2. Khargone STPS is located at district Khargone of Madhya Pradesh. The generating station comprises 02 (two) units of 660 MW capacity each, with date of commercial operation (COD) of Unit-1 as 01.02.2020 and that of Unit-2 as 04.04.2020.
3. The power generated from Khargone STPS is being supplied to various discoms as per MoP allocation and respective PPAs including Madhya Pradesh Power Management Company Limited, Maharashtra State Electricity Distribution Company, Gujarat Urja Vikas Nigam Limited, Chhattisgarh State Power Distribution Co. Ltd., Electricity Department - Government of Goa, Dadra and Nagar haveli and Daman and Diu Power Distribution Corporation Limited (DNHDDPDCL).
4. The tariff for Khargone STPS for the period from COD of Unit-1 to 31.03.2024 was determined by the Hon'ble Commission vide order dated 26.07.2023 in Petition No. 402/GT/2019. Subsequently, the petitioner has filed a separate true up petition for the period from COD of Unit-1 to 31.03.2024 for revision of tariff in line with the applicable provisions of Tariff Regulations 2019. Accordingly, the opening capital cost as on 01.04.2024 has been considered the same as closing capital cost as on 31.03.2024 as per the said true-up petition, i.e. Rs 11901.68 Cr.

5. The tariff of Khargone STPS for the tariff period 2024-29 based on projected expenditures for the period 2024-29 is annexed with the petition as per provisions of Regulation 10 of CERC Tariff Regulations 2024.
6. The projected additional capital expenditures on cash basis for FY 24-25, FY 25-26, FY 26-27, FY 27-28 and FY 28-29 are Rs 136.89 Cr, Rs 327.14 Cr, Rs 0.00 Cr, Rs 152.97 Cr and Rs 0.00 Cr respectively amounting to total of Rs 617.00 Cr for the period 2024-29. The same has been depicted year wise in Form 9 of the Appendix-I along with applicable regulations and justification for the claims. Supporting documents wherever applicable have also been annexed in the Petition. It is humbly requested to approve the projected Additional Capital expenditure during the 2024-29 period.
7. The Petitioner has also provided the estimated water charges, security expenses and ash transportation expenses in Form-3A of Appendix-I. The Hon'ble Commission may be pleased to allow the same subject to retrospective adjustment based on actuals at the time of truing up. Further, to avoid the interest payment liability of the beneficiaries, it is prayed that the petitioner may be allowed to recover/ pass on the ash transportation charges on a monthly basis subject to true-up at the end of the 2024-29 period.

In the light of above submissions and as per the Petition being filed by the Petitioner for determination of tariff of Khargone Super Thermal Power Station Stage-II (1320 MW), the Hon'ble Commission may please determine the tariff for the period 2024-29 as per provisions of Tariff Regulations 2024.

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION**  
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**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 **Khargone Super Thermal Power Station (1320 MW) for the period from 01.04.2024 to 31.03.2029.**

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

Respondents

1. Madhya Pradesh Power Management Company Ltd.(MPPMCL)  
Shakti Bhawan, Vidyut Nagar,  
Jabalpur 482 008
2. Maharashtra State Electricity Distribution Co Ltd. (MSEDCL)  
Prakashgad, Bandra (East),  
Mumbai 400 051
3. Gujarat Urja Vikas Nigam Ltd.(GUVNL)  
Vidyut Bhavan, Race Course  
Vadodara – 390 007
4. Chhattisgarh State Power Distribution Co. Ltd (CSPDCL)  
P.O. Sundar Nagar,  
Danganiya, Raipur – 492013

- 5 Electricity Department  
Government of Goa  
Vidyut Bhawan, Panaji, Goa
- 6 Dadra And Nagar Haveli and Daman and  
Diu Power Distribution Corporation Limited  
(DNHDDPDCL);  
1<sup>st</sup> & 2<sup>nd</sup> Floor, Vidyut Bhavan, Silvassa-  
396230, DNH, India

The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as '**Petitioner**' or '**NTPC**'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power stations/ projects at different regions and places in the country. **Khargone Super Thermal Power Station (2x660 MW)** (hereinafter referred to as Khargone is one such station located in the State of Madhya Pradesh. The power generated from Khargone 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 station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 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 the instant Khargone Station for the period from 01.04.2024 to 31.03.2029 as per the Tariff Regulations 2024.

- 6) The tariff of the Khargone for the tariff period from COD of Unit-1 (01.02.2020) to 31.3.2024 was determined by the Hon'ble Commission vide its order dated 26.07.2023 in Petition No.402/GT/2019 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2019. The petitioner vide affidavit dated 19.11.2024 has filed a separate true up petition for the period from COD of Unit-1 (01.02.2020) to 31.03.2024 for revision of tariff in line with the applicable provisions of Tariff Regulations 2019.
- 7) It is submitted that Hon'ble Commission vide order dated 26.07.2023 in Petition no 402/GT/2019 has allowed a capital cost of Rs 10828.83 Cr as on 31.03.2024 based on the admitted projected capital expenditure for the 2019-24 period. However, the actual closing capital cost as on 31.03.2024 has been worked out

in the foresaid true-up petition as Rs 11901.68 Cr based on the actual expenditure after truing up exercise for the period 2019-24. Accordingly, the Petitioner has adjusted an amount of Rs 1072.85 Cr to the admitted capital cost as on 31.03.2024 and accordingly the opening capital cost as on 01.04.2024 has been considered as Rs 11901.68 Cr in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2024 and determine the tariff in the present petition for the period 2024-29.

- 8) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2024 considered as above and projected estimated capital expenditures claimed for the period 2024-29 under Regulation 19, Regulation 25, Regulation 26 and Regulation 102 of the Tariff Regulations, 2024.
- 9) The Petitioner further respectfully submits that as per Regulation 36(1)(6)/36(1)(9) of the Tariff Regulations 2024, the water charges, security expenses, ash transportation expenses and capital spares consumed for thermal generating stations are to be allowed separately.

**10) Water Charges**

The details in respect of water charges such as type of cooling water system, water allocation, rate of water charges as applicable for 2023-24 have been furnished below.

Description	Remarks
Type of Plant	Coal based Thermal Power Plant
Type of cooling water system	Closed Circuit Cooling System
Allocation of Water*	40 Million Cubic Meter (MCM) annually
Rate of Water charges *	Rs 9.2 per cubic meter
Water Charges*	Rs 3212.58 lakh

(\* For FY 2023-24 as per truing-up petition filed for the instant Station)

It is pertinent to mention that to meet the necessary requirement of water for operating the Station, the Petitioner executed an agreement in November 2014

with Water Resources Department, Govt. of Madhya Pradesh, for an annual allocation of 40 MCM of water from the Omkareshwar Dam. It is humbly submitted that water is an important raw material for any thermal generating plant. If a generating station is being installed through long term PPA route like the instant station, the generator has to ensure long-term water and coal arrangement corresponding to the installed capacity/ MCR capacity so that it can offer its availability for supply of energy to the respective beneficiaries as per their entitlements, totaling the installed capacity/ MCR capacity of the Station. Further, since water is a State subject, the Petitioner is bound by the terms of the Agreement entered with the State Water Body to ensure availability of water for the instant generating Station.

It is further submitted that as mentioned in detail in **Annexure-A/1** herewith, due to uncontrollable factor of high ground water table and high variations in the ground water table, the Station has been experiencing frequent leakages in the Make-up Water (MUW) Pipeline, which is mainly of Glass Fibre Reinforced Polymer (GRP) make, installed in a length of about 41.3 Km from the Plant (0 Km chainage) to MUW Pump House (MUWPH) (41.3 Km chainage). The said leakages in MUW pipeline have put to risk the availability of water necessary to ensure sustained generation from the Station. Further, due to crop damages and law and order problems created owing to leakages in the pipeline passing through cultivated lands, the State Authority has directed Petitioner to take necessary action to arrest leakages.

Therefore, as detailed in Form-9 of Appendix-I for FY 24-25, the Petitioner is carrying out replacement of GRP pipeline with Mild Steel (MS) pipeline in high failure prone area having very high water table identified in different stretches totaling about 10 km length, mainly from 20 Km chainage to 41.3 Km chainage, out of 41.3 km of route of pipeline from Plant to MUWPH. It is relevant to mention that when such replacement works are being carried out in the said stretches from 41.3 Km chainage to 20 Km chainage, water cannot flow in the pipeline in this portion and hence water cannot be pumped from Omkareshwar Dam at 41.3 Km chainage. Therefore, to ensure that water is available for Plant operations when the said replacement works are being carried out, the Petitioner has identified additional source of water from Indira Sagar Pariyojna (ISP) Main Canal, which is passing in vicinity of the MUW pipeline at about 17

km chainage. This additional source of water is being used for pumping water from 17 Km chainage to the Plant (0 Km chainage) during the periods in which the said replacement of GRP pipeline with MS pipeline is carried out, which is expected to be completed and put to use in FY 24-25 and FY 25-26. For pumping of water to the Plant from this source, a pumping arrangement has been made at the said 17 Km chainage. Therefore, the Petitioner is incurring additional water charges in the form of statutory water charges being paid to the Canal Authority for water allocation and the cost (diesel cost incl. hiring charges for pumps and DG set, etc.) for pumping of water to the Plant from the canal. Pertinently, after the completion of said replacement works, this additional source of water would no longer be required. Further, the Petitioner continues to incur water charges as per Water Agreement for the above-mentioned long-term allocation from Omkareshwar Dam, which is being used when pipe replacement works are not under progress. Accordingly, the Petitioner has projected the estimated water charges for 2024-29 period and the said additional water charges in FY 24-25 and FY 25-26 on projected basis in Form-3A of Appendix-I of the instant Petition. The Hon'ble Commission may be pleased to allow the same in the tariff for 2024-29 period subject to retrospective adjustment at the time of truing-up based on actual water charges paid/ incurred.

In view of the foregoing, Hon'ble Commission may kindly be pleased to allow the projected water charges subject to retrospective adjustment at the time of truing-up based on actual water charges paid/ incurred.

- 11) Further, the Petitioner is claiming the security and ash transportation expenses based on the estimated expenses for the period 2024-29 and 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.
- 12) However, it is submitted that the expenditure towards the ash transportation charges is recurring in nature and the Petitioner has been incurring ash transportation expenditure in its stations 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 beneficiaries on account of the interest payment for the period till the time the tariff petition 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 transportation charges on a monthly basis subject to true-up at the end of the 2024-29 period.

- 13) The petitioner humbly submits that petition no. 227/MP/2024 has been filed by the petitioner concerning Ash Utilization Expenditure for its stations 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.
- 14) 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.
- 15) The Petitioner humbly submits that the pay/wage revision for the employees of the Petitioner will be due w.e.f. 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 craves liberty to 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 expenses.
- 16) 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.

- 17) 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:-
- (a) This Hon'ble Commission had notified the Tariff Regulations, 2019 on 07.03.2019 and the same was in effect till 31.03.2024.
  - (b) 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.
  - (c) 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.
  - (d) 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.
- 18) 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.
- 19) 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.

- 20) 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.
- 21) 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 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.
- 22) It is submitted that the Petitioner has already paid the requisite filing fee vide Transaction Id 37c568eba62158b7b321 on 24.04.2024 for the year 2024-25 and the details of the same have been duly furnished to the Hon'ble Commission vide our communication dtd. 27.04.2024. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 94 (1) of Tariff Regulations 2024 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.
- 23) It is submitted that the Petitioner has uploaded the copy of the Petition at CERC site (Saudamini), the access of which is available to all the Respondents mentioned herein above and therefore the petition stands served to all the respondents. Further, the petitioner has also 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, 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 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 alongwith the prayer for recovery of Publication Expenses as per Regulation-94 of CERC Tariff Regulations 2024.

- 25) 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 31.03.2024 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

### **Prayers**

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

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

**Petitioner**

Noida  
Date.....

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

**PETITION NO.....**

**IN THE MATTER OF** : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-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 Khargone Super Thermal Power Station (1320 MW) for the period from 01.04.2024 to 31.03.2029.

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

**Respondents:** Madhya Pradesh Power Management  
Company Limited,  
Shakti Bhawan, Vidyut Nagar,  
Jabalpur 482 008

**and Others**

**AFFIDAVIT**



I, Sameer Kumar Aggarwal, Son of Late Shri B K Aggarwal, aged about 51 years, working as Additional General Manager (Commercial) in the office of NTPC Limited, having its registered office at NTPC Bhawan, Scope Complex, Core-7, Lodhi Road, New Delhi-110003 do hereby solemnly affirm and state as follows:

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.
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



*Sk Aggarwal*

instruction and the contents of the same are true and correct to the best of my knowledge and belief.

3. That the contents as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. 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.

**Verification:**

Verified at Noida on this ..... day of November 2024, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

*Sk Aggarwal*

(Deponent)

समीर अग्रवाल/SAMEER AGGARWAL  
अपर महाप्रबंधक (वाणिज्यिक)  
Addl. General Manager (Commercial)  
एन टी पी सी लिमिटेड/NTPC LIMITED  
EOC, A-8A, Sector-24, Noida-201 301 (U.P.)

*Sk Aggarwal*

(Deponent)

समीर अग्रवाल/SAMEER AGGARWAL  
अपर महाप्रबंधक (वाणिज्यिक)  
Addl. General Manager (Commercial)  
एन टी पी सी लिमिटेड/NTPC LIMITED  
EOC, A-8A, Sector-24, Noida-201 301 (U.P.)



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

28 NOV 2024

## **APPENDIX-I**

**TARIFF FILING FORMS (THERMAL)**

**FOR DETERMINATION OF TARIFF**

**FOR**

**Khargone STPS (2x660 MW)**

**(From 01.04.2024 TO 31.03.2029)**

**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- 4	Details of Foreign loans	NA
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	NA
FORM- 7	Details of Project Specific Loans	NA
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9 ##	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	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- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM- 16A	Details of Limestone for Computation of Supplementary ECR	✓
FORM-17^	Details of Capital Spares	NA
FORM- 18^	Non-Tariff Income	NA
FORM-19^	Details of Water Charges	NA
FORM-20^	Details of Statutory Charges	NA

PART-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM-H	Statement of Additional Capitalisation during end of the useful life	NA
FORM-I^	Details of Assets De-capitalised during the period	NA
FORM-J^	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	NA
FORM-K^	Statement showing details of items/assets/works claimed under Exclusions	NA
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Works in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM- O(i)**	Computation of Energy Charges	✓
FORM- O(ii)**	Computation of Energy Charges & IOWC corresponding to FGD	✓
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	NA
FORM-T	Summary of issues involved in the petition	✓

\*\* Additional Forms

## Provided yearwise for the period 2024-29

^ Shall be provided at true-up

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

S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association ( For New Station setup by a company making tariff application for the first time to CERC)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years.  B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	***
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BP5A/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.  List of supporting documents to be submitted:  a. Detailed Project Report  b. CPM Analysis  c. PERT Chart and Bar Chart  d. Justification for cost and time Overrun.	NA
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	NA
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

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

**Summary of Tariff**

Name of the Petitioner: NTPC Limited  
Name of the Generating Station: Khargone  
Place (Region/District/State): Western Region/ Khargone/ Madhya Pradesh

Amount in Rs. Lakhs

S. No.	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	57,390.67	60,334.18	61,503.63	62,328.08	62,713.60	63,099.11
1.2	Interest on Loan	Rs Lakh	32,780.53	31,554.73	28,669.68	26,344.13	24,899.80	23,367.26
1.3	Return on Equity	Rs Lakh	64,611.03	67,442.63	68,623.56	69,423.06	69,760.89	70,098.71
1.4	Interest on Working Capital	Rs Lakh	18,703.09	16,265.03	16,339.92	16,412.84	16,512.03	16,633.01
1.5	O&M Expenses	Rs Lakh	40,798.13	46004.87	47691.96	49389.58	51810.45	54336.93
1.6	Special Allowance (If applicable)	Rs Lakh						
1.7	Compensation Allowance (If applicable – relevant for column 4 only)	Rs. Lakh						
	<b>Total</b>	Rs Lakh	<b>214283.46</b>	<b>221601.44</b>	<b>222828.75</b>	<b>223897.70</b>	<b>225696.77</b>	<b>227535.02</b>
2.1	Landed Fuel Cost (coal)	Rs/Ton	6,900.87	6,127.32	6,127.32	6,127.32	6,127.32	6,127.32
	(%) of Fuel Quantity	(%)						
2.2	Landed Fuel Cost Imported Coal	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.3	Landed Fuel Cost ( coal/gas /RLNG/liquid) other than FSA	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.4	Landed Fuel Cost Imported Coal other than FSA.	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.5	Secondary fuel oil cost	Rs/KL	83369.842	80294.228	80294.228	80294.228	80294.228	80294.228
2.6	Energy Charge Rate ex-bus (Rs/kWh)	Rs/Unit	4.948	3.962	3.962	3.962	3.962	3.962

As per Form-15

(Petitioner)

PART-I FORM- 1(I)						
Name of the Petitioner:		NTPC Limited				
Name of the Generating Station:		Khargone				
Amount in Rs. Lakhs						
<b>Statement showing claimed capital cost – (A+B)</b>						
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	1190167.95	1203856.84	1236570.79	1236570.79	1251867.77
2	Add: Addition during the year/period	13688.89	32713.95	0.00	15296.98	0.00
3	Less: De-capitalisation during the year/period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year/ period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	1203856.84	1236570.79	1236570.79	1251867.77	1251867.77
7	<b>Average Capital Cost</b>	<b>1197012.39</b>	<b>1220213.81</b>	<b>1236570.79</b>	<b>1244219.28</b>	<b>1251867.77</b>
<b>Statement showing claimed capital cost eligible for RoE at normal rate (A)</b>						
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	1190167.95	1203161.92	1215813.89	1215813.89	1215813.89
2	Add: Addition during the year / period	12993.97	12651.97	0.00	0.00	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	1203161.92	1215813.89	1215813.89	1215813.89	1215813.89
7	<b>Average Capital Cost</b>	<b>1196664.93</b>	<b>1209487.90</b>	<b>1215813.89</b>	<b>1215813.89</b>	<b>1215813.89</b>
<b>Statement showing claimed capital cost eligible for RoE at SBI MCLR plus 350 BP (B)</b>						
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	0.00	694.92	20756.90	20756.90	36053.88
2	Add: Addition during the year / period	694.92	20061.98	0.00	15296.98	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	694.92	20756.90	20756.90	36053.88	36053.88
7	<b>Average Capital Cost</b>	<b>347.46</b>	<b>10725.91</b>	<b>20756.90</b>	<b>28405.39</b>	<b>36053.88</b>
(Petitioner)						

**PART-I**  
**FORM- 1(IIA)**

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Khargone

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

		Amount in Rs. Lakhs				
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	<b>Return on Equity (@ Normal Rate)</b>					
1	Gross Opening Equity (Normal)	3,57,050.38	3,60,948.58	3,64,744.17	3,64,744.17	3,64,744.1665
2	Less: Adjustment in Opening Equity	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	3,57,050.38	3,60,948.58	3,64,744.17	3,64,744.17	3,64,744.17
5	Add: Increase in equity due to addition during the year / period	3898.19	3795.59	0.00	0.00	0.00
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (Normal)	3,60,948.58	3,64,744.17	3,64,744.17	3,64,744.17	3,64,744.17
10	Average Equity (Normal)	3,58,999.48	3,62,846.37	3,64,744.17	3,64,744.17	3,64,744.17
11	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
12	Total ROE	67,427.28	68,149.81	68,506.25	68,506.25	68,506.25

(Petitioner)

**Name of the Petitioner:** NTPC Limited

**Name of the Generating Station:** Khargone

**Statement showing Return on Equity at SBI MCLR plus 350 BP**

**Amount in Rs. Lakhs**

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	<b>Return on Equity (@ SBI MCLR plus 350 BP)</b>					
1	Gross Opening Equity (SBI MCLR plus 350 BP)	0.00	208.48	6227.07	6227.07	10816.16
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (SBI MCLR plus 350 BP)	0.00	208.48	6227.07	6227.07	10816.16
5	Add: Increase in equity due to addition during the year / period	208.48	6018.59	0.00	4589.09	0.00
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (SBI MCLR plus 350 BP)	208.48	6227.07	6227.07	10816.16	10816.16
10	Average Equity (SBI MCLR plus 350 BP)	104.24	3217.77	6227.07	8521.62	10816.16
11	Rate of ROE - post tax, i.e. SBI MCLR plus 350 BP (%)	12.15	12.15	12.15	12.15	12.15
12	Rate of ROE - pre tax (%)	14.723	14.723	14.723	14.723	14.723
13	Total ROE (SBI MCLR plus 350 BP)	15.35	473.75	916.81	1254.64	1592.46

**(Petitioner)**

Plant Characteristics		PART-I FORM-2	
Name of the Petitioner	NTPC Ltd.		
Name of the Generating Station	Khargone STPS (2x660 MW)		
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	
Installed Capacity ( MW)	660 MW	660 MW	
Schedule COD as per Investment Approval	52 Months from zero date of 31.03.2015	58 Months	
Actual COD /Date of Taken Over (as applicable)	01.02.2020	04.04.2020	
Pit Head or Non Pit Head or Integrated Mine	Non Pit Head	Non Pit Head	
Name of the Boiler Manufacture	LMB	LMB	
Name of Turbine Generator Manufacture	LMTG	LMTG	
Main Steams Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) abs <sup>1</sup> .	270	270	
Main Steam Temperature at Turbine inlet (°C) <sup>1</sup>	600	600	
Reheat Steam Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>	49.6	49.6	
Reheat Steam Temperature at Turbine inlet (°C) <sup>1</sup>	600	600	
Main Steam flow at Turbine inlet under MCR condition (tons /hr) <sup>2</sup>	1849.134	1849.134	
Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>	1998.084	1998.084	
Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>	660	660	
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>	693	693	
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>	Unit heat rate of 2070 Kcal / KWh guaranteed by the supplier		
Conditions on which design turbine cycle heat rate guaranteed			
% MCR	100%	100%	
% Makeup Water Consumption	0	0	
Design Capacity of Make up Water System	3%	3%	
Design Capacity of Inlet Cooling System			
Design Cooling Water Temperature (°C)	31.6	31.6	
Back Pressure	77	77	
Steam flow at super heater outlet under BMCR condition (tons/hr)	2038.046	2038.046	
Steam Pressure at super heater outlet under BMCR condition (kg/Cm <sup>2</sup> )	277.97(g)	277.97(g)	
Steam Temperature at super heater outlet under BMCR condition (°C)	603	603	
Steam Temperature at Reheater outlet at BMCR condition (°C)	603	603	
Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>	Unit heat rate of 2070 Kcal / Kwh guaranteed by the supplier		
Design Fuel with and without Blending of domestic/imported coal			
(GCV ) Domestic Design coal	3400	3400	
Blended Coal (Domestic Design 70%+ Imported 30%)	4330	4330	
Type of Cooling Tower	IDCT	IDCT	
Type of cooling system <sup>5</sup>	Closed Circuit Cooling		
Type of Boiler Feed Pump <sup>6</sup>	2x50%-TDBFP 1x30%-MDBFP	2x50%-TDBFP 1x30%-MDBFP	
Boiler Firing Type	Tangential		
Fuel Details <sup>7</sup>			
-Primary Fuel	Coal	Coal	
-Secondary Fuel	LDO	LDO	
-Alternate Fuels	N.A	N.A	
Types of SOX control system	FGD	FGD	
Types of NOX control system	Low NOx Burner	Low NOx Burner	
Details of SPM control system			

Plant Characteristics		PART-I FORM-2	
Name of the Petitioner	NTPC Ltd.		
Name of the Generating Station	Khargone STPS (2x660 MW)		
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	
Special Features/Site Specific Features <sup>8</sup>			
Special Technological Features <sup>9</sup>	First Ultra Super critical Unit	First Ultra Super critical Unit	
Environmental Regulation related features <sup>10</sup>	1) ESP is provided 2) Wet Limestone based FGD System implemented.		
Design SO <sub>2</sub> removal efficiency of FGD System	96.72%		
Any other special features	Station is having Tangential Fired Boilers.		
Petitioner			

Normative parameters considered for tariff computations						PART 1 FORM-3	
Name of the Petitioner: NTPC Limited							
Name of the Generating Station: KHARGONE STPS (2x660 MW)							
					(Year Ending March)		
Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2			5	6	7	8
Base Rate of Return on Equity (Normal)	%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Add Cap for ROE @ MCLR plus 350 BP	%		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%
Target Availability (Peak/ off-peak)	%	85.00%	85.00%	85.00%	85.00%	85.00%	85.00%
Auxiliary Energy Consumption	%	6.25%	5.75%	5.75%	5.75%	5.75%	5.75%
Auxiliary Energy Consumption for ECS (FGD System)	%	1%	1.00%	1.00%	1.00%	1.00%	1.00%
Gross Station Heat Rate	kCal/kWh	2173.5	2163.15	2163.15	2163.15	2163.15	2163.15
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC1	in Days	50.00	50.00	50.00	50.00	50.00	50.00
Cost of Main Secondary Fuel Oil for WC1	in Months	2	2	2	2	2	2
Fuel Cost for WC2	in Months	NA					
Liquid Fuel Stock for WC2	in Months						
Normative O&M Expenses for coal station*	Rs lakh / MW	23.26	25.78	27.13	28.56	30.06	31.64
Maintenance Spares for WC	% of O&M	20%	20%	20%	20%	20%	20%
Receivables for WC	in Days	45	45	45	45	45	45
Storage capacity of Primary fuel	MT	561600	561600	561600	561600	561600	561600
Rate of IOWC (SBI MCLR plus 325 BP)	%	12.00	11.90	11.90	11.90	11.90	11.90
R- Average Monthly Frequency Response Performance		Shall be provided at truing-up					
Blending ratio of domestic coal/ imported coal		As per Form-15					
Note:							
* Additional Normative O&M expenses for FGD @ 2% of Capital Cost with yearly escalation @ 5.25% as per Tariff Regulations claimed as per Form-3A.							
Petitioner							

Part-I FORM-3A ADDITIONAL FORM						
Calculation of O&M Expenses						
Name of the Company :		NTPC Limited				
Name of the Power Station :		Khargone				
Amount in Rs. Lakhs						
S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	7	8
1	O&M expenses under Reg.36(1)(1)/36(1)(9)					
1a	Normative	34029.60	35811.60	37699.20	39679.20	41764.80
1bi	O&M expenses ECS (FGD)	1283.05	1350.41	1421.30	1495.92	1574.46
1bii	Gypsum Sales FGD^^	292.58	307.94	324.10	341.12	359.03
1biii	Net O&M expenses FGD	990.47	1042.47	1097.20	1154.80	1215.43
2	O&M expenses under Reg.36(1)(6)					
2a(i)	Water Charges (as per Water Agreement with State Water Body)^	3347.50	3491.50	3635.50	3790.15	3923.50
2a(ii)	Water Charges (payment to canal authority for pumping of water from canal at 17 km chainage )^	433.09	298.65	0.00	0.00	0.00
2a(iii)	Water Charges (pumping related expenditure from canal at 17 km chainage)^	1254.21	901.74	0.00	0.00	0.00
2b	Secutiry expenses^	2450.00	2646.00	2857.68	3086.29	3333.20
2c	Capital Spares*					
3	O&M expenses-Ash Transportation^^	3500.00	3500.00	4100.00	4100.00	4100.00
	<b>Total O&amp;M Expenses</b>	<b>46004.87</b>	<b>47691.96</b>	<b>49389.58</b>	<b>51810.45</b>	<b>54336.93</b>
<b>Note:</b> * Shall be provided at truing-up ^ On projected basis, please refere Water Charges para in Petition for details regarding the same. ^^ On projected basis						
<b>Petitioner</b>						

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

<b>Name of the Company :</b>	<b>NTPC Limited</b>	
<b>Name of the Power Station :</b>	<b>Khargone</b>	
Last date of order of Commission for the project	<b>Date (DD-MM-YYYY)</b>	26.07.2023
Reference of petition no. in which the above order was passed	<b>Petition no.</b>	402/GT/2019
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, i.e. as on 31.03.2024, in the above order by the Commission:		<b>(Rs Lakh)</b>
Capital cost	<b>(Rs. in lakh)</b>	10,82,883.08
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		-
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		71,022.50
Gross Normative Debt		7,58,018.16
Cumulative Repayment		2,10,419.59
Net Normative Debt		5,47,598.57
Normative Equity		3,24,864.92
Cumulative Depreciation		2,10,419.58
Freehold land		5,587.28
<b>(Petitioner)</b>		

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

<b>Name of the Company :</b>	<b>NTPC Limited</b>	
<b>Name of the Power Station :</b>	<b>Khargone</b>	
Truing-up petition for 2019-24 period filed vide:	<b>Affidavit dated</b>	19.11.2024
Capital Cost as on 31.03.2024 as per Hon'ble Commission's Order dated 26.07.2023	<b>Rs. Lakhs</b>	10,82,883.08
Adjustment as per Para (7) of this petition		107284.87
Following details as considered by the Petitioner as on the last date of the period claimed as per 2019-24 truing up petition (i.e. as on 31.03.2024):		(Amount in Rs lakh)
Capital cost	<b>(Rs. in lakh)</b>	11,90,167.95
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		0.00
Amount of un-discharged liabilities corresponding to above claimed capital cost (but not forming part of admitted capital cost being allowed on cash basis)		23,276.65
Gross Normative Debt		8,33,117.56
Cumulative Repayment		2,19,786.19
Net Normative Debt		6,13,331.37
Normative Equity		3,57,050.38
Cumulative Depreciation		2,19,786.19
Freehold land		
<b>(Petitioner)</b>		

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

**Form 8**

**TRANCHE NO**

**T00001**

**D00006**

**BP NO 5050000762**

Unsecured Loan From AXIS BANK-II		
Source of Loan :	AXIS BANK-II	
Currency :	INR	
Amount of Loan :	25,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawl	08.04.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.45%	
Margin, If Floating Interest :	-	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	08.04.2020	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	11.07.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N/A.	
Project Code	Project Name	Amount
	BARH-I	70,00,00,000
	GADARWARA	60,00,00,000
	DARUPALLI	20,00,00,000
1	<b>KHARGONE</b>	<b>20,00,00,000</b>
	BARAUNI-II	40,00,00,000
	BILHAUR SOLAR 85MW	30,00,00,000
	AURAIYA SOLAR 20MW	5,00,00,000
	AURAIYA SOLAR FS 20MW	5,00,00,000
	SIMHADRI FLOATING	5,00,00,000
	SINGRAULI R&M	43,00,00,000
	KORBA R&M	32,00,00,000
	RAMAGUNDAM I & II R&M	45,00,00,000
	VINDHYACHAL R&M	40,00,00,000
	FARAKKA R&M	26,00,00,000
	RIHAND R&M	35,00,00,000
	DADRI GAS R&M	6,00,00,000
	TSTPP R&M	8,00,00,000
	NCTPP R&M	5,00,00,000
	CHATTI BARIATU CMB	5,00,00,000
	<b>Total Allocated Amount</b>	<b>5,00,00,00,000</b>

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

Form 8

TRANCHE NO

BP NO 5050001371

T00001

D00001

BP NO 3050007371

10000

0000001

Unsecured Loan From AXIS BANK-IV		
Source of Loan :	AXIS BANK-IV	
Currency :	INR	
Amount of Loan :	19,00,00,00,000	
Total Drawn amount :	19,00,00,00,000	
Date of Drawl :	29.03.2023	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	8.00%	
Margin, If Floating Interest :	-	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period ::	0 Years	
Moratorium effective from ::	NIL	
Repayment Period (Inc. Moratorium) :	10 Years	
Repayment Frequency :	10 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	29.03.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	TANDA-II	19,00,00,000.00
	NCPS-FGD	24,00,00,000.00
	TSTPS-R&M-I	8,00,00,000.00
	BARH-I	2,20,00,00,000.00
	NORTH KARANPURA	65,00,00,000.00
	LARA-I	2,30,00,00,000.00
	GADARWARA	4,84,00,00,000.00
	DARLIPALLI	1,54,00,00,000.00
2	<b>KHARGONE</b>	<b>1,15,00,00,000.00</b>
	TELANGANA	1,50,00,00,000.00
	KERENDARI	3,40,00,00,000.00
	CHATTI BARIATU	5,00,00,000.00
	TAPOVAN VISHNUGAD	32,50,00,000.00
	TALAIPALI	53,50,00,000.00
Total Allocated Amount		19,00,00,00,000

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

**Form 8**

**TRANCHE NO**

**BP NO 5050000762**

**T00001**

**D00002**

Unsecured Loan From AXIS BANK-II		
Source of Loan :	AXIS BANK-II	
Currency :	INR	
Amount of Loan :	25,00,00,00,000	
Total Drawn amount :	50,00,00,00,000	
Date of Drawl :	30.01.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	7.60%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	11.07.2019	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	11.07.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	DARUPALLI	10,00,00,000
3	KHARGONE	20,00,00,000
	TELANGANA	20,00,00,000
	<b>Total Allocated Amount</b>	<b>50,00,00,000</b>

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

**Form 8**

**TRANCHE NO**

**BP NO 5050000762**

**T00001**

**D00003**

Unsecured Loan From AXIS BANK-II		
Source of Loan :	AXIS BANK-II	
Currency :	INR	
Amount of Loan :	25,00,00,00,000	
Total Drawn amount :	2,50,00,00,000	
Date of Drawl :	02.03.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	7.45%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	02.03.2020	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	11.07.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	1,00,00,00,000
	LARA-I	75,00,00,000
4	<b>KHARGONE</b>	<b>75,00,00,000</b>
	<b>Total Allocated Amount</b>	<b>2,50,00,00,000</b>

BP NO 5050000581		TRANCHE NO T00001	D00004
Unsecured Loan From HDFC Bank Ltd. IX			
Source of Loan :	HDFC Bank Ltd. IX		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	16,10,00,00,000		
Date of drawl :	24.06.2020		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest :	8.30%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Intlt. Payment :	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	24.06.2020		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	12 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	30.06.2024		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-II	2,54,31,57,061	
	BONGAIGAON	2,06,81,00,000	
	CHATTI BARIATU CMP	13,60,00,000	
	JETSAR SOLAR	20,00,00,000	
	KAHALGAON-II	11,43,64,133	
	KHARGONE	1,20,00,00,000	
	KOLDAM	4,54,00,000	
	KORBA-III	2,14,43,267	
	KUDGI	45,00,00,000	
	LARA-I	7,85,71,430	
	MOUDA-I	69,46,38,787	
	MOUDA-II	1,60,00,00,000	
	NORTH KARANPURA	50,00,00,000	
	PAKRI BARWADIH CMB	1,07,21,55,097	
	RAMMAM	50,00,00,000	
	RIHAND-III	20,43,00,000	
	SIMHADRI-II	22,70,00,000	
	SIPAT-I	18,57,38,787	
	SOLAPUR	53,79,74,298	
	TANDA-II	1,20,00,00,000	
	UNCHAHAR STPP IV	18,00,00,000	
	VINDHYACHAL-IV	85,63,00,000	
	VINDHYACHAL-V	1,48,28,57,140	
Total Allocated Amount		16,10,00,00,000	

BP NO 5050000581		TRANCHE NO. T00001		D00009	
		Unsecured Loan From HDFC Bank Ltd. IX			
Source of Loan :		HDFC Bank Ltd. IX			
Currency :		INR			
Amount of Loan :		50,00,00,00,000			
Total Drawn amount :		8,00,00,00,000			
Date of drawl		07.12.2020			
Interest Type :		Floating			
Fixed Interest Rate :					
Base Rate, If Floating Interest		5.95%			
Margin, If Floating Interest :		NIL			
Are there any Caps/ Floor :		Y/N			
Frequency of Intl. Payment		MONTHLY			
If Above is yes, specify Caps/ Floor :					
Moratorium Period :		3 Years			
Moratorium effective from :		07.12.2020			
Repayment Period (Inc Moratorium) :		15 Years			
Repayment Frequency :		12 Yearly Instalment			
Repayment Type :		AVG			
First Repayment Date :		30.06.2024			
Base Exchange Rate :		RUPEE			
Date of Base Exchange Rate :		N.A.			
Project Code		Project Name		Amount	
		TANDA-II		82,00,00,000.00	
		BARH I		1,30,00,00,000.00	
		NORTH KARANPURA		65,00,00,000.00	
		TAPOVAN VISHNUGARH		70,00,00,000.00	
		LARA-I		1,30,00,00,000.00	
		GADARWARA		25,00,00,000.00	
		RAMMAM		8,00,00,000.00	
		DARLIPALLI		50,00,00,000.00	
		KHARGONE		1,20,00,00,000.00	
		TELANGANA		1,20,00,00,000.00	
		Total Allocated Amount		8,00,00,00,000.00	

BP NO 5050000581		TRANCHE NO T00001	D00010
Unsecured Loan From HDFC Bank Ltd. IX			
Source of Loan :		HDFC Bank Ltd. IX	
Currency :		INR	
Amount of Loan :		50,00,00,00,000	
Total Drawn amount :		6,83,00,00,000	
Date of drawl :		24.12.2020	
Interest Type :		Floating	
Fixed Interest Rate :			
Base Rate, If Floating Interest :		5.95%	
Margin, If Floating Interest :		NIL	
Are there any Caps/ Floor :		Y/N	
Frequency of Intl. Payment :		MONTHLY	
If Above is yes, specify Caps/ Floor :			
Moratorium Period :		3 Years	
Moratorium effective from :		24.12.2020	
Repayment Period (Inc. Moratorium) :		15 Years	
Repayment Frequency :		12 Yearly Instalment	
Repayment Type :		AVG	
First Repayment Date :		30.06.2024	
Base Exchange Rate :		RUPEE	
Date of Base Exchange Rate :		N.A.	
Project Code		Project Name	Amount
		TANDA-II	7,50,00,000.00
		BARH I	68,00,00,000.00
		NORTH KARANPURA	50,00,00,000.00
		GADARWARA	50,00,00,000.00
		LARA-I	30,00,00,000.00
		DARLIPALLI	10,00,00,000.00
7		KHARGONE	84,00,00,000.00
		TAPOVAN VISHNUGARH	25,00,00,000.00
		RAMMAM	15,00,00,000.00
		BARAUNI-II	3,00,00,000.00
		RAMAGUNDAM FLOATING SOLAR	9,00,00,000.00
		BILHAUR SOLAR 140MW	6,00,00,000.00
		BILHAUR SOLAR 85MW	13,00,00,000.00
		AURAIYA SOLAR 20MW	3,20,00,000.00
		SIMHADRI FLOATING	1,50,00,000.00
		KAYAMKULAM FS ( 22 MW)	4,00,00,000.00
		JETSAR SOLAR	2,00,00,000.00
		FATEHGARH (298MW)	60,00,00,000.00
		BONGAIGAON	60,00,00,000.00
		SOLAPUR	10,00,00,000.00
		KORBA R&M	10,00,00,000.00
		VINDHYACHAL R&M	5,30,00,000.00
		FARAKKA R&M	2,50,00,000.00
		KIRENDARI	4,00,00,000.00
		PAKRI BARWADIH CMB	1,50,00,00,000.00
Total Allocated Amount		6,83,00,00,000	

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

Form 8

TRANCHE NO

BP NO 5050000561

T00001

D0009

Unsecured Loan From HDFC Bank Ltd. V		
Source of Loan :	HDFC Bank Ltd. V	
Currency :	INR	
Amount of Loan :	25,00,00,00,000	
Total Drawn amount :	2,20,00,00,000	
Date of drawl	02.07.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	6.10%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	02.07.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	25.09.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	LARA-I	50,00,00,000
	DULANGA COAL MINE	10,00,00,000
	TALAIPALI COAL MINE	10,00,00,000
	NORTH KARANPURA	75,00,00,000
8	KHARGONE	75,00,00,000
Total Allocated Amount		2,20,00,00,000

BP NO 5050000561		TRANCHE NO T00001	D00001
Unsecured Loan From HDFC Bank Ltd. V			
Source of Loan :	HDFC Bank Ltd. V		
Currency :	INR		
Amount of Loan :	25,00,00,00,000		
Total Drawn amount :	5,00,00,00,000		
Date of drawl :	25.09.2017		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest :	7.90%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment :	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	8 Years		
Moratorium effective from :	25.09.2017		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	25.09.2024		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N/A.		
Project Code	Project Name	Amount	
	TANDA-II	13,85,00,000	
	RAMMAM	3,00,00,000	
	<b>KHARGONE</b>	<b>89,68,00,000</b>	
	TELANGANA	16,00,00,000	
	MANDSAUR SOLAR PV	11,00,00,000	
	ROJMAL WIND	21,00,00,000	
	MOUDA-II	39,84,00,000	
	KUDGI	2,76,97,00,000	
	CHATTI BARIATU CMB	19,13,00,000	
	DULANGA COAL MINE	6,00,00,000	
	MOUDA-I	3,53,00,000	
Total Allocated Amount		5,00,00,00,000	

BP NO 5050000561		TRANCHE NO T00001		D00004	
Unsecured Loan From HDFC Bank Ltd. V					
Source of Loan :		HDFC Bank Ltd. V			
Currency :		INR			
Amount of Loan :		25,00,00,00,000			
Total Drawn amount :		3,00,00,00,000			
Date of drawl :		01.12.2017			
Interest Type :		Floating			
Fixed Interest Rate :					
Base Rate, If Floating Interest :		7.85%			
Margin, If Floating Interest :		NIL			
Are there any Caps/ Floor :		Y/N			
Frequency of Init. Payment :		MONTHLY			
If Above is yes, specify Caps/ Floor :					
Moratorium Period :		6 Years			
Moratorium effective from :		01.12.2017			
Repayment Period (Inc Moratorium) :		15 Years			
Repayment Frequency :		9 Yearly Instalment			
Repayment Type :		AVG			
First Repayment Date :		25.09.2024			
Base Exchange Rate :		RUPEE			
Date of Base Exchange Rate :		N.A.			
Project Code		Project Name		Amount	
10		LARA		1,05,00,00,000	
		KHARGONE		75,00,00,000	
		MANDSAUR SOLAR PV		90,00,00,000	
		BARH-I		90,00,00,000	
		Total Allocated Amount		3,00,00,00,000	

BP NO 5050000561		TRANCHE NO T00001	D00006
Unsecured Loan From HDFC Bank Ltd. V			
Source of Loan :		HDFC Bank Ltd. V	
Currency :		INR	
Amount of Loan :		25,00,00,00,000	
Total Drawn amount :		1,00,00,00,000	
Date of drawl :		21.12.2017	
Interest Type :		Floating	
Fixed Interest Rate :			
Base Rate, If Floating Interest :		7.85%	
Margin, If Floating Interest :		NIL	
Are there any Caps/ Floor :		Y/N	
Frequency of Init. Payment :		MONTHLY	
If Above is yes, specify Caps/ Floor :			
Moratorium Period :		6 Years	
Moratorium effective from :		21.12.2017	
Repayment Period (Inc Moratorium) :		15 Years	
Repayment Frequency :		9 Yearly Instalment	
Repayment Type :		AVG	
First Repayment Date :		25.09.2024	
Base Exchange Rate :		RUPEE	
Date of Base Exchange Rate :		N.A.	
Project Code		Project Name	Amount
		DARLIPALLI	50,00,00,000.00
11		KHARGONE	40,00,00,000.00
		TELANGANA	10,00,00,000.00
Total Allocated Amount		1,00,00,00,000	

BP NO 5050000561		TRANCHE NO T00001	D00007
Unsecured Loan From HDFC Bank Ltd. V			
Source of Loan :	HDFC Bank Ltd. V		
Currency :	INR		
Amount of Loan :	25,00,00,00,000		
Total Drawn amount :	1,50,00,00,000		
Date of drawl	01.01.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	7.85%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Intl. Payment	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	01.01.2018		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	25.09.2024		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BONGAIGOAN	11,00,00,000	
	DARLIPALLI	25,00,00,000	
	RAMMAM	10,00,00,000	
2	KHARGONE	77,00,00,000	
	BHADLA SOLAR PV	2,00,00,000	
	ROJMAL WIND	3,00,00,000	
	MOUDA-II	22,00,00,000	
Total Allocated Amount		1,50,00,00,000	

BP NO 5050000561		TRANCHE NO T00001	D00010
Unsecured Loan From HDFC Bank Ltd. V			
Source of Loan :	HDFC Bank Ltd. V		
Currency :	INR		
Amount of Loan :	25,00,00,00,000		
Total Drawn amount :	7,30,00,00,000		
Date of drawl :	26.09.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest :	8.30%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment :	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Monatorium Period :	6 Years		
Monatorium effective from :	26.09.2018		
Repayment Period (Inc Monatorium) :	15 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	25.09.2024		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	60,00,00,000	
	BONGAIGAON	12,00,00,000	
	LARA-I	2,35,00,00,000	
	SOLAPUR	87,00,00,000	
	TAPOVAN VISHNUGARH	25,00,00,000	
	TELANGANA	80,00,00,000	
	KHARGONE	1,35,00,00,000	
	GADARWARA	85,00,00,000	
	FARAKKA	61,00,00,000	
Total Allocated Amount		7,30,00,00,000	

BP NO 5050000641		TRANCHE NO T00001	D00002
Unsecured Loan From HDFC Bank Ltd. VI			
Source of Loan :	HDFC Bank Ltd. VI		
Currency :	INR		
Amount of Loan :	15,00,00,00,000		
Total Drawn amount :	5,00,00,00,000		
Date of drawl	11.10.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	8.30%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	11.10.2018		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	26.09.2025		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	55,00,00,000	
	TAPOVAN VISHNUGARH	10,00,00,000	
	BONGAIGADN	10,00,00,000	
	SOLAPUR	14,00,00,000	
	LARA-I	33,00,00,000	
	GADARWARA	68,00,00,000	
	NORTH KARANPURA	42,00,00,000	
	DARUPALLI	34,00,00,000	
	TANDA II	31,00,00,000	
	RAMMAM	3,00,00,000	
	KHARGONE	48,00,00,000	
	TELANGANA	42,00,00,000	
	AURAIYA R&M	50,00,00,000	
	NCTPP R&M	10,00,00,000	
	KAWAS R&M	15,00,00,000	
	GANDHAR R&M	35,00,00,000	
Total Allocated Amount		5,00,00,00,000	

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

Form 8

TRANCHE NO

BP NO 5050000641

T00001

D00004

Unsecured Loan From HDFC Bank Ltd. VI		
Source of Loan :	HDFC Bank Ltd. VI	
Currency :	INR	
Amount of Loan :	15,00,00,00,000	
Total Drawn amount :	4,30,00,00,000	
Date of drawl	01.01.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.65%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	01.01.2020	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.09.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	27,00,00,000
	NORTH KARANPURA	10,00,00,000
5	<b>KHARGONE</b>	<b>40,00,00,000</b>
	TELANGANA	30,00,00,000
	UNCHAHAR-FGD	20,00,00,000
	NCPS-FGD	40,00,00,000
	VINDHYACHAL-V FGD	10,00,00,000
	SIPAT-I FGD	25,00,00,000
	KORBA-I FGD	20,00,00,000
	BARH-II FGD	20,00,00,000
	RAMAGUNDAM-I FGD	20,00,00,000
	SIMHADRI-FGD	50,00,00,000
	MOUDA-II FGD	10,00,00,000
	SOLAPUR-FGD	15,00,00,000
	<del>KUDGI-FGD</del>	50,00,00,000
	AURAIYA SOLAR 20MW	18,00,00,000
	KAYAKULAM FLOATING	15,00,00,000
	BILHAUR SOLAR 140MW	10,00,00,000
Total Allocated Amount		4,30,00,00,000

Form 8  
TRANCHE NO

BP NO 5050001151

T00001

D00003

Unsecured Loan From HDFC Bank Ltd. X		
Source of Loan :	HDFC Bank Ltd. X	
Currency :	INR	
Amount of Loan :	30,00,00,00,000	
Total Drawn amount :	6,30,00,00,000	
Date of drawl	02.05.2022	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	5.83%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	24.11.2021	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	24.11.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
16	KHARGONE	60,00,00,000.00
	LARA	40,00,00,000.00
	GADARWARA	15,00,00,000.00
	DARUPALLI	1,50,00,00,000.00
	TANDA-II	40,00,00,000.00
	BARAUNI-II	15,00,00,000.00
	TALAIPALI COAL MINE	15,00,00,000.00
	KIRENDARI	15,00,00,000.00
	TELANGANA	88,00,00,000.00
	NORTH KARANPURA	1,92,00,00,000.00
	Total Allocated Amount	6,30,00,00,000

Form 8  
TRANCHE NO  
T00001

BP NO 5050001151

D00005

Unsecured Loan From HDFC Bank Ltd. X		
Source of Loan :	HDFC Bank Ltd. X	
Currency :	INR	
Amount of Loan :	30,00,00,00,000	
Total Drawn amount :	2,76,79,00,000	
Date of drawl :	01.06.2022	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	5.83%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Monatorium Period :	3 Years	
Monatorium effective from :	24.11.2021	
Repayment Period (Inc Monatorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	24.11.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	RAMAGUNDAM FS-100MW	1,79,00,000.00
	SAMBHU KI BHURJI	50,00,00,000.00
	NOKHRA SOLAR	50,00,00,000.00
	NOKH SOLAR PLOT-II	40,00,00,000.00
17	<b>KHARGONE</b>	<b>50,00,00,000.00</b>
	LARA	25,00,00,000.00
	GADARWARA	20,00,00,000.00
	DARUPALLI	40,00,00,000.00
	<b>Total Allocated Amount</b>	<b>2,76,79,00,000</b>

Form 8		
TRANCHE NO		
BP NO 5050001441	T00001	D00001
Unsecured Loan From HDFC Bank Ltd. XII		
Source of Loan :	HDFC Bank Ltd. XII	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of drawl	13-Oct-23	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.65%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period ::	3 Years	
Moratorium effective from ::	13.10.2023	
Repayment Period (Inc. Moratorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	13.10.2027	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SINGRAULI-I & II FGD	17,00,00,000.00
	UNCHAHAR-I, II & III-FGD	1,00,00,000.00
	TANDA II	20,00,00,000.00
	KORBA-I,FGD	8,00,00,000.00
	VINDHYACHAL-III&IV FGD	1,00,00,000.00
	SIPAT-I (3X660 MW) FGD	3,00,00,000.00
	SIPAT-II (3X660 MW) FGD	7,00,00,000.00
	TSTPS STAGE-II & I FGD	1,00,00,000.00
	BARH I	75,00,00,000.00
	TAPOVAN VISHNUGARH (4X130	24,00,00,000.00
	BARH II FGD	1,00,00,000.00
	NORTH KARANPURA	50,00,00,000.00
	RAMAGUNDAM-I & II FGD	3,00,00,000.00
	RAMAGUNDAM-III (1X500 MW)	1,00,00,000.00
	MOUDA-I FGD	2,00,00,000.00
	MAUDA II FGD	3,00,00,000.00
	SOLAPUR FGD	1,00,00,000.00
	KUDGI FGD	1,00,00,000.00
	LARA	10,00,00,000.00
	LARA, STAGE-II, 2X800 MW	80,00,00,000.00
	GADARWARA	10,00,00,000.00
	RAMMAM (3X40MW)	13,50,00,000.00
18	<b>KHARGONE</b>	<b>20,00,00,000.00</b>
	TELANGANA	92,50,00,000.00
	TALLAIPALLU	16,00,00,000.00
	BARAUNI-II	10,00,00,000.00
	KERANDARI CMB	9,00,00,000.00
	NABINAGAR	20,00,00,000.00
	Total Allocated Amount	5,00,00,00,000.00

Form 8		
TRANCHE NO		
BP NO 5050001441	T00001	D00003
Unsecured Loan From HDFC Bank Ltd. XII		
Source of Loan :	HDFC Bank Ltd. XII	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount :	10,00,00,00,000	
Date of drawl	01-Dec-23	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.65%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Monatorium Period :	3 Years	
Monatorium effective from :	13.10.2023	
Repayment Period (Inc Monatorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	13.10.2027	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I (3X 660MW)	2,13,00,00,000.00
	TAPOVAN VISHNUGARH (4X130	86,50,00,000.00
	NORTH KARANPURA (3X660)	47,00,00,000.00
	RAMMAM (3X40MW)	10,00,00,000.00
	LARA, STAGE-II, 2X800 MW	75,00,00,000.00
	GANDHAR 20MW	1,00,00,000.00
	SOLAPUR SOLAR (23MW)	3,00,00,000.00
	RIHAND SOLAR (20MW)	2,00,00,000.00
	ANTA SOLAR (90MW)	6,00,00,000.00
	NOKH SOLAR PLOT-I (245MW)	15,00,00,000.00
	NOKH SOLAR PLOT-II (245MW)	24,00,00,000.00
	NOKH SOLAR PLOT-III (245M	29,00,00,000.00
	LARA-I	70,00,00,000.00
19	<b>XHARGONE</b>	<b>43,00,00,000.00</b>
	GADARWARA	30,00,00,000.00
	DARLIPALLI	50,00,00,000.00
	TANDA-II	10,00,00,000.00
	BARAUNI-II (2X250MW)	20,00,00,000.00
	NABINAGAR	20,00,00,000.00
	CHATTI BARIATU CMB	20,00,00,000.00
	TALAIPALI COAL MINE	22,00,00,000.00
	KERANDARI	14,00,00,000.00
	PAKRI BARWADIH CMB	60,00,00,000.00
	RIHAND-I FGD	5,00,00,000.00
	RIHAND- II & III FGD	5,00,00,000.00
	UNCHAHAR-I, II & III-FGD	4,00,00,000.00
	VINDHYACHAL-I &II FGD	8,50,00,000.00
	VINDHYACHAL-III &IV FGD	5,50,00,000.00
	SIPAT-II FGD	4,00,00,000.00
	KORBA-I, II & III FGD	20,50,00,000.00
	BARH-II FGD	2,00,00,000.00
	RAMAGUNDAM-I & II FGD	20,00,00,000.00
	RAMAGUNDAM-III FGD	4,00,00,000.00
	MOUDA-I FGD	2,00,00,000.00
	MOUDA-II FGD	1,00,00,000.00
	SOLAPUR-FGD	1,00,00,000.00
	KUDGI-FGD	2,00,00,000.00
	SINGRAULI-I & II FGD	21,00,00,000.00
	FARAKKA-I, II & III FGD	1,00,00,000.00
	KAHALGAON-I & II FGD	17,00,00,000.00
	TSTPS STAGE-II & I FGD	6,00,00,000.00
Total Allocated Amount		10,00,00,00,000.00

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

Form 8

TRANCHE NO.

BP NO 50500001042

T00001

D00004

Unsecured Loan From ICICI-VII		
Source of Loan :	ICICI-VII	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawal :	11.07.2022	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	6.3%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	01.07.2021	
Repayment Period (Inc Moratorium) :	15 years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	30.12.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	30,00,00,000.00
	NORTH KARANPURA	10,00,00,000.00
	RAMAGUNDAM FS SOLAR	7,00,00,000.00
	KAYAKULAM FLOATING	8,00,00,000.00
	AURAIYA SOLAR FS 20	5,00,00,000.00
	JETSAR SOLAR	7,00,00,000.00
	DEVIKOT SOLAR	4,00,00,000.00
	DEVIKOT SOLAR-90MW	7,00,00,000.00
	SAMBHU KI BHURJ	29,00,00,000.00
	SAMBHU KI BHURJ-II	43,50,00,000.00
	FATEHGARH	60,50,00,000.00
	NOKHRA SOLAR	1,43,50,00,000.00
	ETTAYAPURAM SOLAR	13,00,00,000.00
	RIHAND SOLAR (20MW)	1,00,00,000.00
	KAWAS SOLAR 56MW	36,50,00,000.00
	ANTA SOLAR 90MW	10,50,00,000.00
	SOLAPUR SOLAR	2,50,00,000.00
	NOKH SOLAR PLOT-I (245MW)	1,00,00,000.00
	NOKH SOLAR PLOT-II	1,00,00,000.00
	KHARGONE	10,00,00,000.00
	LARA-I	15,00,00,000.00
	DARLIPALLI	10,00,00,000.00
	TANDA-II	25,00,00,000.00
	BARAUNI-II	12,00,00,000.00
	KIRENDARI	8,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

BP NO 5050000571		TRANCHE NO T00001	D00002
Unsecured Loan From Punjab National Bank-III			
Source of Loan :	Punjab National Bank-III		
Currency :	INR		
Amount of Loan :	20,00,00,00,000		
Total Drawn amount :	2,00,00,00,000		
Date of Drawl	28.02.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	7.80%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Intl. Payment	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	28.02.2018		
Repayment Period (Inc Moratorium) :	12 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	01.02.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N/A		
Project Code	Project Name	Amount	
	DARIPALLI	65,00,00,000.00	
	KHARGONE	1,35,00,00,000.00	
Total Allocated Amount		2,00,00,00,000.00	

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

**Form 8**

**TRANCHE NO**

**BP NO 5050000711**

**T00001**

**D00001**

Unsecured Loan From Punjab National Bank-IV		
Source of Loan :	Punjab National Bank-IV	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	20,00,00,00,000	
Date of Drawl :	01.01.2019	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	8.60%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Initl. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	01.01.2019	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	14.02.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	UNCHAHAAR STPP IV	65,00,00,000.00
	TANDA-II	85,00,00,000.00
	NCTPP-II	36,43,00,000.00
	DADRI GAS R&M	56,00,00,000.00
	KORBA-III	15,00,00,000.00
	SIPAT-II	17,14,00,000.00
	FARAKKA-III	8,57,00,000.00
	KAHALGAON-II	17,14,00,000.00
	BARH-I	1,08,57,00,000.00
	BARH-II	8,00,00,000.00
	NORTH KARANPURA	1,09,00,00,000.00
	KOLDAM	6,43,00,000.00
	TAPOVAN VISHNUGAD	28,57,00,000.00
	PAKRI BARWADIH	1,42,00,00,000.00
	CHATTI BARIATU	10,00,00,000.00
	BONGAIGAON	36,43,00,000.00
	KUDGI	60,00,00,000.00
	LARA	1,23,00,00,000.00
	GADARWARA	2,27,72,00,000.00
	DARLIPALI	2,73,00,00,000.00
	KHARGONE	50,00,00,000.00
	ANANTPUR SOLAR	17,00,00,000.00
	TALAIPALI COAL MINE	5,00,00,00,000.00
Total Allocated Amount		20,00,00,00,000.00

22

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

**Form 8**

**TRANCHE NO**

**T00001**

**D0010**

**BP NO 5050000531**

Unsecured Loan From SBI-IX		
Source of Loan :	SBI-IX	
Currency :	INR	
Amount of Loan :	30,00,00,00,000	
Total Drawn amount :	6,85,00,00,000	
Date of Drawal:	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	7.85%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	29.06.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.03.2021	
Base Exchange Rate :	Rupee	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	40,00,00,000
	TAPOVAN VISHNUGARH	15,00,00,000
	BONGAIGADN	15,00,00,000
	SOLAPUR	20,00,00,000
	LARA-I	55,00,00,000
	GADARWARA	1,00,00,00,000
	NORTH KARANPURA	80,00,00,000
	DARLIPALLI	45,00,00,000
	TANDA II	80,00,00,000
	RAMMAM	10,00,00,000
23	KHARGONE	75,00,00,000
	TELANGANA	75,00,00,000
	TTPS R&M	10,00,00,000
	VINDHYACHAL R&M	10,00,00,000
	FARAKKA R&M	50,00,00,000
	DADRI GAS R&M	45,00,00,000
	<b>Total Allocated Amount</b>	<b>6,85,00,00,000.00</b>

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

**Form 8**

EARLIER BP NO 5050001232

**TRANCHE NO**

**BP NO 5050001323**

**T00001**

**D00001**

Unsecured Loan From UCO BANK V		
Source of Loan :	UCO BANK V	
Currency :	INR	
Amount of Loan :	7,50,00,00,000	
Total Drawn amount :	2,90,00,00,000	
Date of Drawal:	12-09-2023	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.00%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	12-Sep-23	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	12 Yearly	
Repayment Type :	AVG	
First Repayment Date :	30.03.2028	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	LARA	26,00,00,000.00
	KHARGONE	30,00,00,000.00
	GADARWARA	30,00,00,000.00
	DARUPALLI	30,00,00,000.00
	TANDA-II	30,00,00,000.00
	NABINAGAR	32,00,00,000.00
	RIHAND- II & III FGD	6,00,00,000.00
	UNCHAHA-I, II & III-FGD	4,00,00,000.00
	VINDHYACHAL-I &II FGD	8,00,00,000.00
	VINDHYACHAL-III &IV FGD	10,00,00,000.00
	SIPAT-II FGD	10,00,00,000.00
	KORBA-I, II & III FGD	8,00,00,000.00
	BARH-II FGD	4,00,00,000.00
	RAMAGUNDAM-I & II FGD	15,00,00,000.00
	RAMAGUNDAM-III FGD	4,00,00,000.00
	SIMHADRI-II & I FGD	9,00,00,000.00
	MOUDA-I FGD	5,00,00,000.00
	SOLAPUR-FGD	15,00,00,000.00
	KUDGI-FGD	4,00,00,000.00
	FARAKKA-I , II & III FGD	10,00,00,000.00
Total Allocated Amount		2,90,00,00,000.00

BP NO 5050000421		TRANCHE NO T00001	D00004
Unsecured Loan From HDFC Bank Ltd.-III			
Source of Loan :	HDFC Bank Ltd.-III		
Currency :	INR		
Amount of Loan :	15,00,00,00,000		
Total Drawn amount :	1,50,00,00,000		
Date of Drawal:	21.04.2016		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	D00004-9.30%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Init. Payment	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	21.04.2016		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	04.12.2021		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N/A.		
Project Code	Project Name	Amount	
	TAPOVAN VISHNUGAD	25,00,00,000	
	SOLAPUR	30,00,00,000	
	KHARGONE	30,00,00,000	
	BARH II	57,00,00,000	
	SINGRAULI HYDRO	4,00,00,000	
	TELANGANA	4,00,00,000	
Total Allocated Amount		1,50,00,00,000	

25

BP NO 5050000442		TRANCHE NO T00001	D00011
Unsecured Loan From SBI-VIII			
Source of Loan :	SBI-VIII		
Currency :	INR		
Amount of Loan :	1,00,00,00,00,000		
Total Drawn amount :	3,00,00,00,000		
Interest Type :	Floating		
Fixed Interest Rate :	-----		
Base Rate, If Floating Interest :	D00011-9.30%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment :	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	30.10.2015		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.01.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	31,00,00,000	
	BONGAIGOAN	30,00,00,000	
	DARLIPALLI	18,00,00,000	
	GADARWARA	72,00,00,000	
	KHARGONE	5,00,00,000	
	LARA-I	33,00,00,000	
	MOUDA-II	26,00,00,000	
	NORTH KARANPURA	8,00,00,000	
	TANDA-II	15,00,00,000	
	TAPOVAN VISHNUGARH	21,00,00,000	
	UNCHAHAR-IV	7,00,00,000	
	PAKRI BARWADIH	4,00,00,000	
	CHATTI BARIATU	9,00,00,000	
	SIMHADRI-II	12,00,00,000	
	RAMAGUNDAM R&M	11,00,00,000	
Total Allocated Amount		3,00,00,00,000	

BP NO 5050000442		TRANCHE NO T00001	D00014
Unsecured Loan From SBI-VIII			
Source of Loan :	SBI-VIII		
Currency :	INR		
Amount of Loan :	1,00,00,00,00,000		
Total Drawn amount :	3,00,00,00,00,000		
Date of Drawl :	01.01.2016		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	D00014-9.30%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	01.01.2016		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.01.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	9,00,00,000	
	BONGAIGOAN	22,00,00,000	
	DARLIPALLI	35,00,00,000	
	KUDGI-I	67,00,00,000	
	LARA-I	77,00,00,000	
	PAKRI BARWADIH	16,00,00,000	
	TANDA-II	25,00,00,000	
	TAPOVAN VISHNUGARH	12,00,00,000	
	UNCHAHAR STPP IV	10,00,00,000	
	KHARGONE	17,00,00,000	
	VINDHYACHAL-V	10,00,00,000	
Total Allocated Amount		3,00,00,00,00,000	

BP NO 5050000442		TRANCHE NO T00001		D00019	
Unsecured Loan From SBI-VIII					
Source of Loan :		SBI-VIII			
Currency :		INR			
Amount of Loan :		1,00,00,00,00,000			
Total Drawn amount :		1,00,00,00,00,000			
Date of Drawl		12.07.2016			
Interest Type :		Floating			
Fixed Interest Rate :					
Base Rate, If Floating Interest		D00019-9.30%			
Margin, If Floating Interest :		0.00%			
Are there any Caps/ Floor :		Y/N			
Frequency of Init. Payment		Monthly			
If Above is yes, specify Caps/ Floor :					
Moratorium Period :		6 Years			
Moratorium effective from :		12.07.2016			
Repayment Period (Inc Moratorium) :		15 Years			
Repayment Frequency :		9 Yearly Installments			
Repayment Type :		AVG			
First Repayment Date :		31.01.2022			
Base Exchange Rate :		RUPEE			
Date of Base Exchange Rate :		N.A.			
Project Code		Project Name		Amount	
		BONGAIGAON		17,00,00,000	
		LARA		22,00,00,000	
		KHARGONE		61,00,00,000	
Total Allocated Amount				1,00,00,00,000	

BP NO 5050000442		TRANCHE NO T00001		D00020	
Unsecured Loan From SBI-VIII					
Source of Loan :		SBI-VIII			
Currency :		INR			
Amount of Loan :		1,00,00,00,00,000			
Total Drawn amount :		2,00,00,00,00,000			
Date of Drawl :		25.07.2016			
Interest Type :		Floating			
Fixed Interest Rate :		-----			
Base Rate, If Floating Interest		D00020-9.30%			
Margin, If Floating Interest :		0.00%			
Are there any Caps/ Floor :		Y/N			
Frequency of Init. Payment		Monthly			
If Above is yes, specify Caps/ Floor :					
Moratorium Period :		6 Years			
Moratorium effective from :		25.07.2016			
Repayment Period (Inc Moratorium) :		15 Years			
Repayment Frequency :		9 Yearly Installments			
Repayment Type :		AVG			
First Repayment Date :		31.01.2022			
Base Exchange Rate :		RUPEE			
Date of Base Exchange Rate :		N.A.			
Project Code		Project Name		Amount	
		LARA		54,00,00,000	
		NORTH KARANPURA		82,00,00,000	
		TANDA II		42,00,00,000	
29		KHARGONE		18,00,00,000	
		SINGRAULI 8MW HYDRO		4,00,00,000	
Total Allocated Amount				2,00,00,00,000	

TRANCHE NO		
BP NO 5050000551	T00001	D00002
Unsecured Loan From SBI-X		
Source of Loan :	SBI- X	
Currency :	INR	
Amount of Loan :	40,00,00,00,000	
Total Drawn amount :	2,00,00,00,000	
Date of Drawal:	04.10.2017	
Interest Type :	Floating	
Fixed Interest Rate :	---	
Base Rate, If Floating Interest	7.90%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	04.10.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SOLAPUR	20,00,00,000
	LARA	20,00,00,000
	DARLIPALLI	25,00,00,000
	TANDA-II	35,00,00,000
30	KHARGONE	30,00,00,000
	TELANGANA	15,00,00,000
	BARH - II	15,00,00,000
	KOLDAM	20,00,00,000
	PAKRI BARWADIH CMB	20,00,00,000
Total Allocated Amount		2,00,00,00,000.00

TRANCHE NO		
BP NO 5050000551	T00001	D00007
Unsecured Loan From SBI-X		
Source of Loan :	SBI-X	
Currency :	INR	
Amount of Loan :	40,00,00,00,000	
Total Drawn amount :	10,00,00,00,000	
Date of Drawal:	12.03.2018	
Interest Type :	Floating	
Fixed Interest Rate :	---	
Base Rate, If Floating Interest	D0001-7.9%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	12.03.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	50,00,00,000
	TAPOVAN VISINUGARH	60,00,00,000
	GADARWARA	80,00,00,000
	NORTH KARANPURA	1,80,00,00,000
	DARLIPALLI	2,20,00,00,000
	TANDA-II	1,50,00,00,000
31	KHARGONE	1,80,00,00,000
	TELANGANA	1,00,00,00,000
Total Allocated Amount		10,00,00,00,000.00

TRANCHE NO		
BP NO 5050000551	T00001	D00010
Unsecured Loan From SBI-X		
Source of Loan :	SBI-X	
Currency :	INR	
Amount of Loan :	40,00,00,00,000	
Total Drawn amount :	3,00,00,00,000	
Date of Drawal:	29.05.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	7.85%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	29.05.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	LARA-I	1,05,00,00,000
	DARLIPALLI	50,00,00,000
	PAKRI BARWADIH CMB	65,00,00,000
32	KHARGONE	80,00,00,000
Total Allocated Amount		3,00,00,00,000.00

TRANCHE NO		
BP NO 5050000661	T00001	D00002
Unsecured Loan From SBI-XI		
Source of Loan :	SBI-XI	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawal:	16.10.2018	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	16.10.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	01.10.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	NORTH KARANPURA	95,00,00,000
	DARLIPALLI	1,00,00,00,000
33	KHARGONE	1,20,00,00,000
	TELANGANA	90,00,00,000
	DULANGA COAL MINE	25,00,00,000
	TALAI PALI COAL MINE	70,00,00,000
Total Allocated Amount		5,00,00,00,000.00

BP NO 5050000661		TRANCHE NO T00001	D00004
Unsecured Loan From SBI-XI			
Source of Loan :	SBI-XI		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	8,00,00,00,000		
Date of Drawal:	22.11.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	8.30%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Intt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	22.11.2018		
Repayment Period (Inc Moratorium) :	12 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	01.10.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	40,00,00,000	
	TAPOVAN VISHNUGARH	11,00,00,000	
	BONGAIGAON	11,00,00,000	
	SOLAPUR	20,00,00,000	
	LARA-I	50,00,00,000	
	GADARWARA	55,00,00,000	
	NORTH KARANPURA	36,00,00,000	
	DARLIPALLI	40,00,00,000	
	TANDA-II	10,00,00,000	
	KHARGONE	75,00,00,000	
	TELANGANA	75,00,00,000	
	TALAIPALI COAL MINE	7,00,00,000	
	RAMAGUNDAM I & II R&M	36,00,00,000	
	VINDHYACHAL R&M	14,00,00,000	
	FARAKKA R&M	10,00,00,000	
	KAHALGAON R&M	10,00,00,000	
	KHARGONE	2,00,00,00,000	
	TELANGANA	1,00,00,00,000	
Total Allocated Amount		8,00,00,00,000.00	

BP NO 5050000661		TRANCHE NO T00001	D00005
Unsecured Loan From SBI-XI			
Source of Loan :	SBI-XI		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	5,00,00,00,000		
Date of Drawal:	11.12.2018		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	8.30%		
Margin, If Floating Interest :	0.00%		
Are there any Caps/ Floor :	Y/N		
Frequency of Intlt. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	11.12.2018		
Repayment Period (Inc Moratorium) :	12 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	01.10.2022		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH-I	6,00,00,000	
	TAPOVAN VISHNUGARH	7,00,00,000	
	SOLAPUR	12,00,00,000	
	LARA-I	40,00,00,000	
	GADARWARA	75,00,00,000	
	NORTH KARANPURA	10,00,00,000	
	DARUPALLI	60,00,00,000	
	TANDA-II	30,00,00,000	
	KHARGONE	1,00,00,00,000	
	TELANGANA	1,20,00,00,000	
	SINGRAULI R&M	20,00,00,000	
	RAMAGUNDAM R&M	20,00,00,000	
Total Allocated Amount		5,00,00,00,000.00	

BP NO 5050000741		TRANCHE NO T00001	D00001
Unsecured Loan From SBI-XII			
Source of Loan :	SBI-XII		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	7,50,00,00,000		
Date of Drawal:	11.02.2019		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	8.35%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	11.02.2019		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.03.2026		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N/A.		
Project Code	Project Name	Amount	
	BARH-I	1,30,00,00,000.00	
	TAPOVAN VISHNUGARH	15,00,00,000.00	
	BONGAIGAON	65,00,00,000.00	
	SOLAPUR	40,00,00,000.00	
	GADARWARA	90,00,00,000.00	
	DARLIPALLI	60,00,00,000.00	
	TANDA-II	50,00,00,000.00	
	KHARGONE	90,00,00,000.00	
	TELANGANA	70,00,00,000.00	
	CHATTI BARIATU	15,00,00,000.00	
	DULANGA	20,00,00,000.00	
	TALAIPALI	80,00,00,000.00	
	NCPS-FGD	25,00,00,000.00	
Total Allocated Amount		7,50,00,00,000.00	

BP NO 5050000741		TRANCHE NO T00001	D00003
Unsecured Loan From SBI-XII			
Source of Loan :	SBI-XII		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	5,00,00,00,000		
Date of Drawal:	26.03.2019		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	8.35%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Initl. Payment	Monthly		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	6 Years		
Moratorium effective from :	26.03.2019		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	9 Yearly Installments		
Repayment Type :	AVG		
First Repayment Date :	31.03.2026		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	BARH I	40,00,00,000.00	
	UNCHAHAR STPP IV	1,20,00,00,000.00	
	LARA	30,00,00,000.00	
	NORTH KARANPURA	30,00,00,000.00	
	GADARWARA	80,00,00,000.00	
	DARLIPALLI	41,00,00,000.00	
	TANDA-II	30,00,00,000.00	
	KHARGONE	60,00,00,000.00	
	TELANGANA	60,00,00,000.00	
	CHATTI BARIATU	5,00,00,000.00	
	DULANGA	10,00,00,000.00	
	TALAIPALI	10,00,00,000.00	
	NCPS-FGD	4,00,00,000.00	
Total Allocated Amount		5,00,00,00,000.00	

TRANCHE NO		
BP NO 5050000422	T00001	D0003
Unsecured Loan From Syndicate Bank-IV		
Source of Loan :	Syndicate Bank-IV	
Currency :	INR	
Amount of Loan :	10.00.00.00.00,000	
Total Drawn amount :	5.00.00.00.00,000	
Date of Drawal:	24.01.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	D00003 - 7.6%	
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Initl. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	5 Years	
Moratorium effective from :	24.01.2020	
Repayment Period (Inc Moratorium) :	15	
Repayment Frequency :	10 Yearly Payments	
Repayment Type :	Average	
First Repayment Date :	05.12.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	TAPOVAN VISHNUGAD	30.00.00.000.00
	GADARWARA	40.00.00.000.00
	DARLIPALLI	40.00.00.000.00
	TANDA-II	1,20.00.00.000.00
	KHARGONE	1,20.00.00.000.00
	TELANGANA	1,30.00.00.000.00
	JETSAR SOLAR	20.00.00.000.00
Total Allocated Amount		5.00.00.00.000.00

TRANCHE NO		
BP NO 5050001151	T00001	D00003
Unsecured Loan From HDFC Bank Ltd. X		
Source of Loan :	HDFC Bank Ltd. X	
Currency :	INR	
Amount of Loan :	30,00,00,00,000	
Total Drawn amount :	6,30,00,00,000	
Date of drawl	02.05.2022	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	5.83%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	24.11.2021	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	24.11.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N/A	
Project Code	Project Name	Amount
		</

BP NO 5050001151		TRANCHE NO T00001	D00005
		Unsecured Loan From HDFC Bank Ltd. X	
Source of Loan :	HDFC Bank Ltd. X		
Currency :	INR		
Amount of Loan :	30,00,00,00,000		
Total Drawn amount :	2,76,79,00,000		
Date of drawl	01.06.2022		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest	5.83%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Init. Payment	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	24.11.2021		
Repayment Period (Inc Moratorium) :	15 Years		
Repayment Frequency :	12 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	24.11.2025		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N.A.		
Project Code	Project Name	Amount	
	RAMAGUNDAM FS-100MW	1,79,00,000.00	
	SAMBHU KI BHURJI-II	50,00,00,000.00	
	NOKHRA SOLAR	50,00,00,000.00	
	NOKH SOLAR PLOT-II	40,00,00,000.00	
	KHARGONE	50,00,00,000.00	
	LARA	25,00,00,000.00	
	GADARWARA	30,00,00,000.00	
	DARUPALLI	40,00,00,000.00	
Total Allocated Amount		2,76,79,00,000	

BP NO 5050001441		TRANCHE NO T00001	D00001
Unsecured Loan From HDFC Bank Ltd. XII			
Source of Loan :	HDFC Bank Ltd. XII		
Currency :	INR		
Amount of Loan :	50,00,00,00,000		
Total Drawn amount :	5,00,00,00,000		
Date of drawl :	13-Oct-23		
Interest Type :	Floating		
Fixed Interest Rate :			
Base Rate, If Floating Interest :	7.85%		
Margin, If Floating Interest :	NIL		
Are there any Caps/ Floor :	Y/N		
Frequency of Intl. Payment :	MONTHLY		
If Above is yes, specify Caps/ Floor :			
Moratorium Period :	3 Years		
Moratorium effective from :	13.10.2023		
Repayment Period (Inc Moratorium):	15 Years		
Repayment Frequency :	12 Yearly Instalment		
Repayment Type :	AVG		
First Repayment Date :	13.10.2027		
Base Exchange Rate :	RUPEE		
Date of Base Exchange Rate :	N/A		
Project Code	Project Name	Amount	
	SINGRAULI-I & II FGD	17,00,00,000.00	
	UNCHAHAR-I, II & III-FGD	1,00,00,000.00	
	TANDA II	20,00,00,000.00	
	KORBA-I,FGD	8,00,00,000.00	
	VINDHYACHAL-III&IV FGD	1,00,00,000.00	
	SIPAT-I (3X660 MW) FGD	3,00,00,000.00	
	SIPAT-II (3X660 MW) FGD	7,00,00,000.00	
	TSTPS STAGE-II & I FGD	1,00,00,000.00	
	BARH I	75,00,00,000.00	
	TAPOVAN VISHNUGARH (4X130	24,00,00,000.00	
	BARH II FGD	1,00,00,000.00	
	NORTH KARANPURA	50,00,00,000.00	
	RAMAGUNDAM-I & II FGD	3,00,00,000.00	
	RAMAGUNDAM-III (1X500 MW)	1,00,00,000.00	
	MOUDA-I FGD	2,00,00,000.00	
	MAUDA II FGD	3,00,00,000.00	
	SOLAPUR FGD	1,00,00,000.00	
	KUDGI FGD	1,00,00,000.00	
	LARA	10,00,00,000.00	
	LARA, STAGE-II, 2X800 MW	80,00,00,000.00	
	GADARIWARA	10,00,00,000.00	
	RAMMAM (3X40MW)	13,50,00,000.00	
	KHARGONE	20,00,00,000.00	
	TELANGANA	92,50,00,000.00	
	TALLAIPALLU	16,00,00,000.00	
	BARAUNI-II	10,00,00,000.00	
	KERANDARI CMB	9,00,00,000.00	
	NABINAGAR	20,00,00,000.00	
Total Allocated Amount		5,00,00,00,000.00	

SBI		
TRANCHE NO		
BP NO 5050001441	T00001	D00003
Unsecured Loan From HDFC Bank Ltd. XII		
Source of Loan :	HDFC Bank Ltd. XII	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount :	10,00,00,00,000	
Date of drawl	01-Dec-23	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.65%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Init. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Monatorium Period :	3 Years	
Monatorium effective from :	13.10.2023	
Repayment Period (Inc Monatorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	13.10.2027	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I (3X 660MW)	2,13,00,00,000.00
	TAPOVAN VISHNUGARH (4X130	86,50,00,000.00
	NORTH KARANPURA (3X660)	47,00,00,000.00
	RAMMAM (3X40MW)	10,00,00,000.00
	LARA, STAGE-II, 2X800 MW	75,00,00,000.00
	GANDHAR 20MW	1,00,00,000.00
	SOLAPUR SOLAR (23MW)	3,00,00,000.00
	RIHAND SOLAR (20MW)	2,00,00,000.00
	ANTA SOLAR (90MW)	6,00,00,000.00
	NOKH SOLAR PLOT-I (245MW)	15,00,00,000.00
	NOKH SOLAR PLOT-II (245MW)	24,00,00,000.00
	NOKH SOLAR PLOT-III (245M	29,00,00,000.00
	LARA-I	70,00,00,000.00
43	<b>KHARGONE</b>	<b>43,00,00,000.00</b>
	GADARWARA	30,00,00,000.00
	DARLIPALLI	50,00,00,000.00
	TANDA-II	10,00,00,000.00
	BARAUNI-II (2X250MW)	20,00,00,000.00
	NABINAGAR	20,00,00,000.00
	CHATTI BARIATU CMB	20,00,00,000.00
	TALAIPALI COAL MINE	22,00,00,000.00
	KERANDARI	14,00,00,000.00
	PAKRI BARWADIH CMB	60,00,00,000.00
	RIHAND-I FGD	5,00,00,000.00
	RIHAND- II & III FGD	5,00,00,000.00
	UNCHAHAR-I, II & III-FGD	4,00,00,000.00
	VINDHYACHAL-I &II FGD	8,50,00,000.00
	VINDHYACHAL-III &IV FGD	5,50,00,000.00
	SIPAT-II FGD	4,00,00,000.00
	KORBA-I, II & III FGD	20,50,00,000.00
	BARH-II FGD	2,00,00,000.00
	RAMAGUNDAM-I & II FGD	20,00,00,000.00
	RAMAGUNDAM-III FGD	4,00,00,000.00
	MOUDA-I FGD	2,00,00,000.00
	MOUDA-II FGD	1,00,00,000.00
	SOLAPUR-FGD	1,00,00,000.00
	KUDGI-FGD	2,00,00,000.00
	SINGRAULI-I & II FGD	21,00,00,000.00
	FARAKKA-I, II & III FGD	1,00,00,000.00
	KAHALGAON-I & II FGD	17,00,00,000.00
	TSTPS STAGE-II & I FGD	6,00,00,000.00
Total Allocated Amount		10,00,00,00,000.00

Form 8		
TRANCHE NO		
BP NO 5050001386	T00001	D00003
Unsecured Loan From HDFC Bank Ltd. XI		
Source of Loan :	HDFC Bank Ltd. XI	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	10,00,00,00,000	
Date of drawl :	01.09.2023	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	7.74%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intl. Payment :	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	14.07.2023	
Repayment Period (Inc. Moratorium) :	15 Years	
Repayment Frequency :	12 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	14.11.2027	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	5,02,14,00,000.00
	PAKRI BARWADIH CMB	1,70,00,00,000.00
	NOKH SOLAR PLOT-III (245M	39,00,00,000.00
	SINGRAULI-I & II FGD	36,73,00,000.00
	KERANDARI	25,00,00,000.00
	NOKH SOLAR PLOT-II (245MW	22,00,00,000.00
	RAMAGUNDAM-I & II FGD	20,06,00,000.00
	TALAIPALI COAL MINE	20,00,00,000.00
	TSTPS STAGE-II & I FGD	17,83,00,000.00
	FARAKKA-I, II & III FGD	16,76,00,000.00
	VINDHYACHAL-I &II FGD	15,73,00,000.00
	TTPS III (2X660MW)	10,00,00,000.00
	DULANGA COAL MINE	10,00,00,000.00
	KAHALGAON-I & II FGD	9,88,00,000.00
	NOKH SOLAR PLOT-I (245MW)	9,00,00,000.00
	UNCHAHAR -I, II & III-FGD	8,56,00,000.00
	VINDHYACHAL-III &IV FGD	8,05,00,000.00
	SIMHADRI-II & I FGD	7,48,00,000.00
	RIHAND- II & III FGD	5,39,00,000.00
	KHARGONE FGD	5,36,00,000.00
	KORBA-I, II & III FGD	5,14,00,000.00
	SIPAT-I FGD	5,07,00,000.00
	KUDGI-FGD	4,74,00,000.00
	DARUPALLI FGD	4,50,00,000.00
	LARA FGD	3,92,00,000.00
	MOUDA-II FGD	3,14,00,000.00
	GADARWARA FGD	3,08,00,000.00
	NORTH KARANPURA FGD	2,42,00,000.00
	MOUDA-I FGD	2,30,00,000.00
	BARH-II FGD	2,19,00,000.00
	SOLAPUR-FGD	2,17,00,000.00
	TANDA II FGD	2,05,00,000.00
	RAMAGUNDAM-III FGD	21,00,000.00
Total Allocated Amount		10,00,00,00,000.00

Name of the Company  
Name of the Power Station

NTPC LTD  
Khargone

Particulars		1	3	4	5	6	7	8	9
4.25 % Euro Bonds 2026		2.75% Fixed Rate Notes due 2027	JPY Equ. 350Million A	JPY Equ. 350Million B	4.5% Fixed Rate Notes due 2028	JPY Equ. 300Million A	JPY Equ. 300Million B	3.75% Euro Bonds 2024 II	JPY Equ. 750Million I
Source of Loan									
Drawal									
Currency	USD	EUR	JPY	JPY	USD	JPY	JPY	USD	JPY
Amount of loan sanctioned	50,00,00,000	50,00,00,000	22,52,50,59,128	16,88,99,89,866	40,00,00,000	16,28,48,76,778	16,56,90,93,118	45,00,00,000	24,67,10,52,632
Amount of Gross Loan drawn upto 19.03.2024	50,00,00,000	50,00,00,000	22,52,50,59,128	16,88,99,89,866	40,00,00,000	16,28,48,76,778	16,56,90,93,118	45,00,00,000	24,67,10,52,632
Interest Type	Fixed	Fixed	Floating	Floating	Fixed	Floating	Floating	Fixed	Floating
Fixed Interest Rate, if applicable	4.25% *	2.75% *	-	-	4.5% *	-	-	3.750%	-
Base Rate, if floating interest*	-	-	6 Month JPY Libor /3 Months TONA*	6 Month JPY Libor /3 Months TONA*	-	6 Month JPY Libor /3 Months TONA*	6 Month JPY Libor /3 Months TONA*	-	6 Month JPY Libor /3 Months TONA*
Margin, if floating interest rate	-	-	0.95%	0.95%	-	1.02%	1.02%	-	0.80%/1.02%
Are there any Caps / Floor	No	No	No	No	No	No	No	No	No
If above is Yes, specify Caps / Floor	-	-	-	-	-	-	-	-	-
Moratorium Period	10 Years	10 Years	9 Years	9 Years	10 Years	9 Years	9 Years	5 Years	6 Years
Moratorium effective from	26-Feb-2016	01-Feb-2017	12-Nov-2017	12-Nov-2017	19-Mar-2018	29-Jan-2019	29-Jan-2019	03-Apr-2019	15-May-2020
Repayment period	Bullet payment	Bullet payment	1 year	1 year	Bullet payment	1 year	1 year	Bullet payment	1 year
Repayment effective from	26-Feb-2026	01-Feb-2027	12-Nov-2026	12-Nov-2026	19-Mar-2028	29-Jan-2028	29-Jan-2028	03-Apr-2024	15-May-2026
Repayment frequency	One time	One time	Three Time	Three Time	One time	Three Time	Three Time	One time	Six Time
Repayment installment	50,00,00,000	50,00,00,000	7,50,83,53,043	5,62,99,96,622	40,00,00,000	5,42,82,92,259	5,52,30,31,039	45,00,00,000	6,16,77,63,158
									2,05,59,21,053
Base Exchange Rate -									
Are foreign currency loan hedged	No	No	No	No	No	No	No	No	No
If above is Yes, specify details	-	-	-	-	-	-	-	-	-
Name of the Projects		%	%	%	%	%	%	%	%
Khargone	0.94%	10.48%	13.00%	22.76%	18.27%	21.25%	17.68%	15.16%	16.70%

Name of the Company  
Name of the Power Station

Particulars	10	11	12	13	14	16	17	18	19	20
	JPY Equ. 750Million II	JPY Equ. 750Million III	JPY Equ. 750Million IV	JPY Equ. 750Million V	JPY Equ. 750Million VI	Euro Loan III	JBIC Green Drawl I	JBIC Green Drawl II	JBIC Green Drawl III	JBIC Green Drawl IV
Source of Loan										
Drawal										
Currency	JPY	JPY	JPY	JPY	JPY	EUR	JPY	JPY	JPY	JPY
Amount of loan sanctioned	10,74,22,92,405	10,55,52,03,716	10,55,18,62,404	10,45,69,69,571	12,89,05,84,717	8,45,12,994	10,00,00,00,000	10,00,00,00,000	15,00,00,00,000	15,00,00,00,000
Amount of Gross Loan drawn upto 19.03.2024	10,74,22,92,405	10,55,52,03,716	10,55,18,62,404	10,45,69,69,571	12,89,05,84,717	8,45,12,994	10,00,00,00,000	10,00,00,00,000	15,00,00,00,000	15,00,00,00,000
Interest Type	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating
Fixed Interest Rate, if applicable	-	-	-	-	-	-	-	-	-	-
Base Rate, if floating interest*	6 Month JPY Libor /3 Months TONA*	6 Month JPY Libor /3 Months TONA*	6 Month JPY Libor /3 Months TONA*	6 Month JPY Libor /3 Months TONA	6 Month JPY Libor /3 Months TONA	6 Month Euribor*	6 Month JPY Libor /6 Month Compounded TONA	6 Month JPY Libor /6 Month Compounded TONA	6 Month JPY Libor /6 Month Compounded TONA	6 Month JPY Libor /6 Month Compounded TONA
Margin, if floating interest rate	0.80%/1.02%	0.80%/1.02%	0.80%/1.02%	0.80%/1.02%	0.80%/1.02%	0.95%	0.92%	0.92%	0.92%	0.92%
Are there any Caps / Floor	No	No	No	No	No	No	No	No	No	No
If above is Yes, specify Caps / Floor	-	-	-	-	-	-	-	-	-	-
Moratorium Period	6 Years	6 Years	6 Years	6 Years	6 Years	7	3	3	3	3
Moratorium effective from	15-May-2020	15-May-2020	15-May-2020	15-May-2020	15-May-2020	11-Aug-2021	25-Feb-2021	25-Feb-2021	25-Feb-2021	25-Feb-2021
Repayment period	1 year	1 year	1 year	1 year	1 year	Bullet payment	Half-Yearly	Half-Yearly	Half-Yearly	Half-Yearly
Repayment effective from	15-May-2026	15-May-2026	15-May-2026	15-May-2026	15-May-2026	14-Aug-2028	17-Sep-2023	17-Sep-2023	17-Sep-2023	17-Sep-2023
Repayment frequency	Six Time	Six Time	Six Time	Six Time	Six Time	One Time	Twenty Five	Twenty Five	Twenty Five	Twenty Five
Repayment installment	2,68,55,73,101	2,63,88,00,929	2,63,79,65,601	2,61,42,42,393	3,22,26,46,179	8,45,12,994	40,00,00,000	40,00,00,000	60,00,00,000	60,00,00,000
	89,51,91,034	87,96,00,310	87,93,21,867	87,14,14,131	1,07,42,15,393					
Base Exchange Rate -										
Are foreign currency loan hedged	No	No	No	No	No	No	No	No	No	No
If above is Yes, specify details	-	-	-	-	-	-	-	-	-	-
Name of the Projects	%	%	%	%	%	%	%	%	%	%
Khargone	20.17%	10.75%	5.74%	9.11%	4.93%	11.22%	8.91%	2.09%	5.53%	1.11%

Name of the Company  
Name of the Power Station

Particulars	21	23	24	25	26	27	28
	USD 750 Million Drawl I	USD 750 Million Drawl III	USD 750 Million Drawl IV	USD 750 Million Drawl V	USD 750 Million Drawl VI	JPY Equ. \$400 Million Drawl I	JPY Equ. \$400 Million Drawl II
Source of Loan							
Drawal							
Currency	USD	USD	USD	USD	USD	JPY	JPY
Amount of loan sanctioned	10,00,00,000	25,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	13,51,55,00,000	13,89,20,00,000
Amount of Gross Loan drawn upto 19.03.2024	10,00,00,000	25,00,00,000	10,00,00,000	10,00,00,000	10,00,00,000	13,51,55,00,000	13,89,20,00,000
Interest Type	Floating	Floating	Floating	Floating	Floating	Floating	Floating
Fixed Interest Rate, if applicable	-	-	-	-	-	-	-
Base Rate, if floating interest*	6 Month Term SOFR*	6 Month Term SOFR*	6 Month Term SOFR*	6 Month Term SOFR*	6 Month Term SOFR*	6M Compounded TONA	6M Compounded TONA
Margin, if floating interest rate	1.16933%	1.16933%	1.16933%	1.16933%	1.16933%	1.20000%	1.20000%
Are there any Caps / Floor	No	No	No	No	No	No	No
If above is Yes, specify Caps / Floor	-	-	-	-	-	-	-
Moratorium Period	4	4	4	4	4	4	4
Moratorium effective from	25-Apr-2022	25-Apr-2022	25-Apr-2022	25-Apr-2022	25-Apr-2022	31-Aug-2023	31-Aug-2023
Repayment period	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Repayment effective from	05-Oct-2026	05-Oct-2026	05-Oct-2026	05-Oct-2026	05-Oct-2026	31-Aug-2027	31-Aug-2027
Repayment frequency	Seven times	Seven times	Seven times	Seven times	Seven times	Seven times	Seven times
Repayment installment	1,42,85,714	3,57,14,286	1,42,85,714	1,42,85,714	1,42,85,714	1,93,07,85,714	1,98,45,71,429
						-	-
Base Exchange Rate -							
Are foreign currency loan hedged	No	No	No	No	No	-	-
If above is Yes, specify details	-	-	-	-	-		
<b>Name of the Projects</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>
Khargone	0.92%	0.25%	1.82%	0.48%	4.00%	10.90%	3.06%

<b>FORM-8</b>	<b>Details of Allocation of Corporate Bonds to various projects</b>
<b>Name of the Company</b>	<b>NTPC LIMITED</b>
<b>Name of the Power Station</b>	<b>KHARGONE STPS (2x660 MW)</b>
<b>Commercial Operation Date (COD)</b>	<b>04-Apr-20</b>

(Rs. Lakh)

Particulars	54	57	60	61	62	63	64	66	67
Source of Loan - Bonds Series	INR	INR	INR	INR	INR	INR	INR	INR	INR
Currency	INR	INR	INR	INR	INR	INR	INR	INR	INR
Amount of Loan sanctioned (In Lakh)	10,30,683.05	50,000.00	1,00,000.00	1,07,250.00	80,000.00	67,000.00	70,000.00	3,92,500.00	4,00,000.00
Amount of Gross Loan drawn upto COD (In Lakh)	10,30,683.05	50,000.00	1,00,000.00	1,07,250.00	80,000.00	67,000.00	70,000.00	3,92,500.00	4,00,000.00
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	8.49%	8.19%	8.05%	8.10%	7.58%	7.47%	7.49%	7.37%	8.30%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor	No	No	No	No	No	No	No	No	No
If above is yes, specify caps/floor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moratorium Period (In Years)	8	10	10	5	10	10	15	15	10
Moratorium effective from*	25-03-2015	15-12-2015	05-05-2016	27-05-2016	23-08-2016	16-09-2016	07-11-2016	14-12-2016	15-01-2019
Repayment Period	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment	Bullet Repayment	Installments Due on 27/05/2021, 27/05/2026 & 27/05/2031	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment effective from	25-03-2023	15-12-2025	05-05-2026	27-05-2021	23-08-2026	16-09-2026	07-11-2031	14-12-2031	15-01-2029
Repayment Frequency	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025	Bullet Repayment	Bullet Repayment	Installments Due on 27/05/2021, 27/05/2026 & 27/05/2031	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment Instalment (In Lakh)	Installments 1st - 208,138.61 2nd - 412,273.22 3rd - 412,273.22	50,000.00	1,00,000.00	Installments 1st - 35,750.00 2nd - 35,750.00 3rd - 35,750.00	80,000.00	67,000.00	70,000.00	3,92,500.00	4,00,000.00
Base Exchange Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Door to Door Maturity (In Years)	10	10	10	15	10	10	15	15	10
<b>Name of the Projects</b>	<b>54</b>	<b>57</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>66</b>	<b>67</b>
<b>Khargone</b>	<b>45,000.00</b>	<b>3,000.00</b>	<b>500.00</b>	<b>2,000.00</b>	<b>3,000.00</b>	<b>3,100.00</b>	<b>3,200.00</b>	<b>24,700.00</b>	<b>36,500.00</b>

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

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

(Amount in Rs. Lakh)

Particulars	69	73	74	78
Source of Loan - Bonds Series	69	73	74	78
Currency	INR	INR	INR	INR
Amount of Loan sanctioned (In Lakh)	4,30,000	2,50,000	3,99,600	2,00,000
Amount of Gross Loan drawn upto COD (In L)	4,30,000	2,50,000	3,99,600	2,00,000
Interest Type	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	7.32%	6.43%	6.87%	7.44%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A
Are there any Caps/Floor	No	No	No	No
If above is yes, specify caps/floor	N/A	N/A	N/A	N/A
Moratorium Period (In Years)	10	10	15 Years and 1 day	10
Moratorium effective from*	17-07-2019	27-01-2021	20-04-2021	25-08-2022
Repayment Period	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment effective from	17-07-2029	27-01-2031	21-04-2036	25-08-2032
Repayment Frequency	Bullet Repayment	Bullet Repayment	Bullet Repayment	Bullet Repayment
Repayment Instalment (In Lakh)	4,30,000	2,50,000	3,99,600	2,00,000
Base Exchange Rate	N/A	N/A	N/A	N/A
Door to Door Maturity (In Years)	10	10	15 Years and 1 day	10

Name of the Projects	69	73	74	78
KHARGONE	13,500.00	3,000.00	2,000.00	500.00
<b>TOTAL</b>	<b>4,30,000.00</b>	<b>2,50,000.00</b>	<b>3,99,600.00</b>	<b>2,00,000.00</b>

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

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



Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2024-25

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3+4)	6			
A1	For assets eligible for Normal ROE							
1	Construction of Raw Water Reservoir	8380.32		8380.32		24(1)(b), 25(2)(f) and 102 (Power to Rules)	<p>It is submitted that as per the Investment Approval (IA) accorded for the Instant Khargone Project, 1 nos. of Raw Water Reservoirs with total usable capacity of about 3.4 lakh cubic metre volume of water, sufficient for meeting the full load operation of the Station for about 3 days, were envisaged and accordingly were constructed and put to use before the COD of the Station. It is pertinent to note that for coal based thermal stations, it is a prevalent standard to build raw water reservoir with capacity sufficient for meeting requirement of water for 10 days full load operation of the Station. However, to optimise the capital cost of Khargone STPS, reservoir capacity of only about 3 days was considered in the IA.</p> <p>It is pertinent to note that consequent to sustained operation of the Station after COD, frequent leakages were observed in the underground GRP Pipeline due to uncontrollable factors, as explained in detail in Annexure-A/1. The 2 no. of GRP pipelines from Plant to the Make-up Water Pump House (MUWPH) are of 2x50% capacity, i.e. there is no provision of standby/additional capacity of pipeline. Further, in the case of any leakage in the pipelines, the timeline for repair of pipeline and restoration of flow through pipeline takes around 03 to 12 days depending upon the nature/ severity of leakage, time taken in having access to the leakage location in pipeline going through various farmlands/ hard rock terrains along the 41.3 km stretch, permission from state authority/ farm owner to enter the farm field after assessment of damage to farm/ crops if any and compensation to be paid if any, excavating the soil/ rock strata around pipeline for repair, repairing and strengthening time depending upon season, etc.</p> <p>Therefore, on account of above said reasons, it was evident that Reservoirs with total 03 days of capacity were not sufficient to meet the Plant requirement, and thus in the Revised Cost Estimate (RCE) for the Khargone Project approved by the Competent Authority of the Petitioner's company, approval was granted for construction of 3rd Reservoir with capacity of meeting the water requirement of the Station for about 07 days. Certificate for RCE is enclosed herewith at Annexure-A/2. Also, in the detailed break-up of IA and RCE vis-a-vis actual capital expenditure under original scope upto 31.03.2024 enclosed herewith at Annexure-A/3, the amount for the 3rd reservoir in RCE is reflected under the Sl. No. 4.2 (CW system Civil Works). Therefore, after construction of this Reservoir, the total capacity of the Reservoirs of the Instant station would be sufficient to meet the Plant's requirement of water for 10 days, in line with the prevailing standard for coal based thermal stations. Therefore, as brought out above, the 3rd reservoir would improve the reliability of the Station and enable the Station to meet the necessary requirement of water to ensure Plant operation in case of unavailability of water from the source. It is also relevant to mention that capital cost for this 3rd reservoir, under the original scope of works as per the approved RCE, incurred at a later stage from the COD, have protected the beneficiaries from front loading of tariff.</p> <p>The works of the said 3rd Reservoir are already in progress and expected to be put to use and capitalised in the FY 24-25. Hon'ble Commission may be pleased to allow the same.</p>	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2024-25

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3+4)	6			
2	CIO2	908.69		908.69		24(1)(b), 25(1)(f) and 102 (Power to Relax)	<p>It is submitted that the EPC contract for the Instant Khargone Project was awarded in March 2015 as per which Chlorine dosing was envisaged for water treatment to maintain water quality and to inhibit organic growth in the water retaining structures/ equipment such as clarifiers, storage tanks, cooling towers, condenser tubes, piping etc. Chlorine dosing is done from chlorine stored in cylinders/ tonners. Chlorine gas is very hazardous and may prove fatal in case of leakage/ explosion and therefore, handling and storage of same involves risk to the life of public at large.</p> <p>Further, "The Occupational Safety, Health and Working Conditions Code, 2020" notified by Ministry of Law &amp; Justice, Govt vide Gazette Notification dated 29th September 2020, necessitates the employer to ensure that workplace is free from hazards which cause or are likely to cause injury or occupational disease to the employees and provide and maintain, as far as is reasonably practicable, a working environment that is safe and without risk to the health of the employees.</p> <p>Therefore, considering the hazards involved with chlorine gas dosing and various statutory norms with respect to safety of workman, Chlorine-di-Oxide (CIO2) System was envisaged in the Revised Cost Estimate (RCE) of the Instant Project approved by the Competent Authority of the Petitioner's company. The same is also indicated at item no. 2.3.6 in the Annexure-A/3 attached herewith detailing Investment Approval/ RCE Cost vis-a-vis actual capital expenditure as on 31.03.24.</p> <p>Accordingly, the Petitioner is in the process of replacing chlorine dosing with CIO2 system. The said works have extended beyond cut-off primarily due to the COVID-19 pandemic, which has severely impacted the additional capitalization works of the Instant Station within cut-off. Also, such works not immediately affecting the generation and deferred to a later stage, also protect the beneficiaries from front loading of tariff. Therefore, Hon'ble Commission may be pleased to allow the Instant capitalization.</p>	
3	Balance Civil Works in Plant Area under original scope	387.45		387.45		24(1)(b), 25(1)(f) and 102 (Power to Relax)	<p>It is submitted that the COD of the Instant Station was in April 2020 and accordingly cut-off date to complete the works under original scope was in FY 23-24. It is also pertinent to note that the period immediately after the COD, which is crucial with respect to expediting the progress of additional capitalization works within original scope, was impaired significantly by the unprecedented COVID-19 pandemic. The various ways in which the COVID-19 pandemic affected the said additional capitalization works of the Instant Station and the steps taken by the Petitioner in mitigating the same, along with supporting documents are provided herewith at Annexure-A/4. It is evident from the same that the 03 year period, after April 2020, available as per Tariff Regulations 2019 to complete the works original scope of the Instant Station was infested largely with the COVID-19 pandemic, which was spread with great force in the year 2020 and 2021, thereby significantly affecting the progress of works on account of various restrictions imposed and shortage in deployment of men, material and equipment due to the pandemic.</p> <p>Nevertheless, the Petitioner by taking suitable measures was able to complete most of the works of original scope by FY 23-24. However, certain civil works in Plant area such as cement concrete flooring and paving, fencing, cladding panels, final finishing works, etc. are still under progress. Also, construction of some of the balance quarters in Township is in advanced stage. It is relevant to mention that Township works in thermal power plants usually take more than 03 years after COD since the focus is mainly on completion of balance Plant works. Also, progress of balance civil works in Plant was slow due to various clearances/ work permits/ and additional precautions that were mandatorily required for carrying out execution works in an operational Plant. Moreover, the said works, not immediately affecting the generation and taken up at a later stage, have protected the beneficiaries against front loading of tariff. Pertinently, such works after completion, will be used to service the beneficiaries. Further, the Petitioner has also indicated in the Annexure-A/3 attached herewith detailing Investment Approval/ RCE Cost vis-a-vis actual cost as on 31.03.24. It is also relevant to mention that the Hon'ble Commission considering various controllable factors has allowed capitalization of works under original scope beyond cut-off date in its plethora of Orders such as Order dated 04.03.2023 in 423/GT/2020, Order dated 02.08.2024 in Petition No 246/GT/2021, etc.</p> <p>Considering the aforesaid, Hon'ble Commission may be pleased to allow the Instant projected capitalization for completion of works under original scope by exercising Regulation 102, i.e. Power to Relax.</p>	
4	Balance Works of Township under original scope	1557.50		1557.50		24(1)(b), 25(1)(f) and 102 (Power to Relax)	<p>It is submitted that the COD of the Instant Station was in April 2020 and accordingly cut-off date to complete the works under original scope was in FY 23-24. It is also pertinent to note that the period immediately after the COD, which is crucial with respect to expediting the progress of additional capitalization works within original scope, was impaired significantly by the unprecedented COVID-19 pandemic. The various ways in which the COVID-19 pandemic affected the said additional capitalization works of the Instant Station and the steps taken by the Petitioner in mitigating the same, along with supporting documents are provided herewith at Annexure-A/4. It is evident from the same that the 03 year period, after April 2020, available as per Tariff Regulations 2019 to complete the works original scope of the Instant Station was infested largely with the COVID-19 pandemic, which was spread with great force in the year 2020 and 2021, thereby significantly affecting the progress of works on account of various restrictions imposed and shortage in deployment of men, material and equipment due to the pandemic.</p> <p>Nevertheless, the Petitioner by taking suitable measures was able to complete most of the works of original scope by FY 23-24. However, certain civil works in Plant area such as cement concrete flooring and paving, fencing, cladding panels, final finishing works, etc. are still under progress. Also, construction of some of the balance quarters in Township is in advanced stage. It is relevant to mention that Township works in thermal power plants usually take more than 03 years after COD since the focus is mainly on completion of balance Plant works. Also, progress of balance civil works in Plant was slow due to various clearances/ work permits/ and additional precautions that were mandatorily required for carrying out execution works in an operational Plant. Moreover, the said works, not immediately affecting the generation and taken up at a later stage, have protected the beneficiaries against front loading of tariff. Pertinently, such works after completion, will be used to service the beneficiaries. Further, the Petitioner has also indicated in the Annexure-A/3 attached herewith detailing Investment Approval/ RCE Cost vis-a-vis actual cost as on 31.03.24. It is also relevant to mention that the Hon'ble Commission considering various controllable factors has allowed capitalization of works under original scope beyond cut-off date in its plethora of Orders such as Order dated 04.03.2023 in 423/GT/2020, Order dated 02.08.2024 in Petition No 246/GT/2021, etc.</p> <p>Considering the aforesaid, Hon'ble Commission may be pleased to allow the Instant projected capitalization for completion of works under original scope by exercising Regulation 102, i.e. Power to Relax.</p>	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2024-25

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5 = (3-4)	6			
5	Replacement of GRP pipeline to MS Pipeline in 10 km length	1671.63		1671.63		25(2)(b), 26(1)(i)	It is submitted that as brought in detail in Annexure-A/1 herewith, due to uncontrollable factor of high water table and high variations in the ground water table, the Station has been experiencing frequent leakages in the Make-up Water (MUW) Pipeline, which is mainly of Glass Fibre Reinforced Polymer (GRP) make, installed in a length of about 41.3 Km from the Plant to MUW Pump House. The said leakages in MUW pipeline have put to risk the availability of water necessary to ensure sustained generation from the Station. Further, due to crop damages and law and order problems created owing to leakages in pipeline, the District Authority has directed Petitioner to take necessary action to arrest leakages. As detailed in Annexure-A/1, since the existing 2 no. GRP pipelines of 900 mm diameter from Plant to MUWPH are of 2x50% capacity and there is no buffer margin/ standby capacity in case of any leakage, and further since GRP pipeline may remain susceptible to failures owing to the said uncontrolled factors, the Petitioner is installing 1 no. 1200 dia MS pipeline from Plant to MUWPH, which is expected to be put to use by FY 27-28. However, since the Petitioner has suffered significant generation loss since the COD due to MUW unavailability owing to said leakages in the last 05 years and since the Petitioner is bound to ensure reliable supply of water and stop leakages at the earliest as directed by the District Authority and further since leakages of severe nature are occurring mainly in very high water table areas, the Petitioner is replacing one out of the two existing GRP pipelines in such high failure prone areas, identified in about 10 km length along the 41.3 Km pipeline stretch, with Mild Steel (MS) pipe. Pertinently, with each such replacement in the identified stretches along the 41.3 km length, the reliability of MUW system is improving and petitioner is avoiding pipeline leakages in such replaced stretches. It is also pertinent to note that such replacement will also ensure that the existing GRP pipeline system with 2x50% capacity remains usable, as the same would be essential alongwith the 01 no. 1200 mm dia MS pipeline being installed and envisaged to be put to use by FY 27-28, to ensure reliable and adequate supply of water for sustained generation from the Instant Station. Therefore, Hon'ble Commission may be pleased to allow the instant capitalisation.	
6	Upgradation of Switchyard Substation Automation System (SAS)	88.38		88.38		25(2)(c)	The existing Substation Automation System (SAS) of Switchyard is based on Windows 7 Operating System, which has been declared obsolete by Microsoft Inc. w.e.f. January 2020. Further, in the recent years, various directions on Cyber Security compliance have been issued by Statutory Authorities including CEA vide CEA (Cyber Security in Power Sector) Guidelines 2021 and CERT-In, Ministry of Electronics and IT, Govt vide directions issued under sub-section (6) of section 70B of the Information Technology Act, 2000. Consequently, the OEM of the Switchyard SAS, M/s GE, has recommended for SAS upgradation, along with Implementation of Cyber Security features, at various NTPC Stations including the Instant Station. Copy of Letter from M/s GE is attached herewith at Annexure-A/5. Also, relevant documents with respect to Obsolescence of Windows 7 OS, CEA Guidelines on Cyber Security 2021 and CERT-In directions dated 28.04.2022 are attached as part of Annexure-A/5. Accordingly, the SAS upgradation work is being executed by M/s GE at the Instant Station and is expected to be capitalized in FY 24-25. Hon'ble Commission may be pleased to allow the same.	
	Sub total A1	12993.97	0.00	12993.97	0.00			
A2	For assets eligible for RoE @ MCLR plus 350 basis points							
1	Initial Infrastructure for Biomass Handling System	125.87		125.87		26(1)(b), 26(1)(g)	It is submitted that Ministry of Power (MoP), Govt, vide their circular dated 08.12.2021 issued "Revised Policy for Biomass Utilization for Power Generation through Co-firing in Coal based Power Plants" as per which coal based power plants are mandated to use bio-mass along with coal for firing. Accordingly, CERC Tariff Regulation 2024 also provides for additional capitalisation for works required towards biomass handling system to enable biomass co-firing. A copy of the said Circular dated 08.12.2021 is attached herewith at Annexure-A/6. The instant projected capitalisation is towards Initial Infrastructure in form of Storage Shed, access roads for trucks, etc. envisaged to start streamlining handling of biomass. Accordingly, the Hon'ble Commission may be pleased to allow the same.	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2024-25

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3+4)	6			
2	Ash Bagging Plant & Storage Shed, Weighbridge and related infrastructure for Ash utilization	362.25		362.25		26(1)(b), 19(3)(d)	MOEF&CC Notification dated 31.12.2021 mandates that every coal or lignite based thermal power plant shall be primarily responsible to ensure 100 per cent utilisation of ash and also provides that Statutory obligation of 100 per cent utilisation of ash shall be treated as a change in law. Also, as per the Consent to Operate for the Instant Station, granted by the MP Pollution Control Board, the Petitioner is mandated to comply with the provisions of Fly Ash Notification 2021. A copy of the said Notification dated 31.12.2021 and Consent to Operate are attached herewith at Annexure-A/7. It is submitted that the Petitioner has taken substantive measures and has been able to achieve 100% ash utilization. However, since the ash utilisation avenues such as road projects, cement industries, etc. are dynamic in nature and demand of ash is largely market driven and depends upon road projects coming up, the Petitioner has to be ready by enabling various ash utilisation related infrastructure to sustain the ash utilisation level of 100%. Accordingly, Petitioner is installing Ash Bagging Plant and Storage Shed for ash bags. Ash Bagging Plant enables mechanised packing of ash with integrated facility for electronic weighing, automatic bag removal and dust removal. The ash packed in bags and stored safely in Storage Shed will be handy for loading and transportation through various mediums and thus enhances flexibility of utilization of ash. Further, Weighbridge is being installed for weighing of Bottom Ash, which is currently being provided to NHAI. Weighment is important in order to avoid overloading of transport vehicle. Additionally, Bottom Ash is being provided by auction also, which can only be done after weighing of ash at dyke. Further, the bulkers loaded with fly ash need to be washed with water before being dispatched for transportation, for which proper ash bulker washing area is being developed. The same is also required to control fugitive emissions as mandated under the Consent to Operate. In view of the above, Hon'ble Commission may be pleased to allow the said capital expenditure required to maintain 100% ash utilization mandated as per aforementioned statutory norms.	
3	Cement Concrete Ramp and Road at Ash Dyke for ash utilization	80.73		80.73		26(1)(b), 19(3)(d)	MOEF&CC Notification dated 31.12.2021 mandates that every coal or lignite based thermal power plant shall be primarily responsible to ensure 100 per cent utilisation of ash and also provides that Statutory obligation of 100 per cent utilisation of ash shall be treated as a change in law. Also, as per the Consent to Operate for the Instant Station, granted by the MP Pollution Control Board, the Petitioner is mandated to comply with the provisions of Fly Ash Notification 2021. A copy of the said Notification dated 31.12.2021 and Consent to Operate are attached herewith at Annexure-A/7. It is submitted that the Petitioner has taken substantive measures and has been able to achieve 100% ash utilization. It is pertinent that major ash utilisation in the Instant Station is in road projects. Further, while dry fly ash utilisation is through ash silos as well as dyke, the utilisation of bottom ash generated is only through dyke. To ensure adequate utilisation of bottom ash as well, the Petitioner is constructing cement concrete ramp to provide safe access to ash bulkers inside the bottom ash lagoon. Further, to sustain overall ash utilisation from dyke, cement concrete road in specific stretches is being done to ensure safe, steady and all season movement of heavy duty excavation machinery and ash carrying bulkers. In view of the above, Hon'ble Commission may be pleased to allow the said capital expenditure required to maintain 100% ash utilization mandated as per aforementioned statutory norms by ensuring adequate and safe utilisation from ash dyke.	
4	Replacement of Faston Trolley with Energy Chain in Side Arm Chargers	41.24		41.24		26(1)(i)	It is submitted that for moving equipments like Stacker reclaimers and paddle feeders, energy chain system is required in order to avoid overtension and slackness of cables that pass through a pendulum. With energy chain system, CERD motors and CERD drums could be avoided thus saving energy and control cable damage/opening could be avoided. In upcoming thermal power projects, the equipment are equipped with the said Energy chain system only and the existing plants are increasingly upgrading to this more efficient, reliable and efficient energy chain system. In view of the same, Hon'ble Commission may be pleased to allow the instant projected capitalization.	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2024-25

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3+4)	6			
5	Water Supply Line for Blow down water from Plant to Township	84.83		84.83		26(1)(b)	It is submitted that as per Consent to Operate for the Instant Station (attached herewith at Annexure-A/3), granted by the MP Pollution Control Board, Clause 4 under Conditions pertaining to Water (Prevention & Control of Pollution) Act 1974 provides that the effluent generated in the Plant shall be treated and reused for green belt development/ gardening within the premises. In Plant, clarified water is being used for cooling of steam in condenser and condenser cooling water is then recycled. For maintaining the Cycle of Concentration (COC), blowdown of some part of cooling water is done. This cooling water blowdown is effluent from the Plant and has to be reused. As Township has substantive green belt area and has requirement of water for horticulture purpose, a pipeline is being laid from Plant to the Township of the Instant Station to enable reuse of cooling water blow down for Township horticulture works. The same involves very less capital expenditure and will enable compliance of conditions of Consent to Operate mentioned above. In view of above, Hon'ble Commission may be pleased to allow the Instant projected capitalization.	
	Sub-total A2	694.92	0.00	694.92	0.00			
	Total Add Cap (A1+A2)	13688.89	0.00	13688.89	0.00			

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2025-26

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IOC included in col. 3			
1	2	3	4	5= (3-4)	6			
A1	For assets eligible for Normal ROE							
1	Construction of ROB-25 over NH link for Railway siding under original scope	5785.00		5785.00		24(1)(b), 25(1)(f) and 100 (Power to Relax)	<p>It is submitted that the comprehensive Railway Siding works for Khargone STPS, under the original scope of works for the Khargone Project, were awarded to M/s RITES. The scope of works under M/s RITES also included construction of 11 no. Road Over Bridges (ROBs) for seamless and safe movement of rail rakes as well as vehicles on roads crossing the instant Station's Railway Siding at different locations along the railway siding stretch.</p> <p>While all the other ROBs were completed within the cut-off date of the Station, the works of ROB-25 over Indore-Edilabad road crossing the Railway Siding are still under progress. It is pertinent to note that the said ROB-25 was to be constructed over the Indore-Edilabad road, which was a State Highway road under the control of MP Road Development Corp. Ltd (MPRDC). However, as the works of Railway Siding were under progress, it was informed by MPRDC in the year 2018 that the said Indore-Edilabad road has been transferred to NHAI as the said road section was coming under 4 lane National Highway planned from Balwara to Dhangson under Bharatmala Pariyojna of the GoI. Consequently, as the design/ construction of ROB required compliance with norms of NHAI for National Highways, discussions were held with NHAI for construction of the said ROB-25. Accordingly, as details with respect to the said planned National Highway were finalised by NHAI, NHAI vide letter dated 23.12.2020 (attached herewith at Annexure-A/9), communicated the cost details w.r.t. the said ROB after approval of their competent authority. Accordingly, an Agreement in June 2021 was signed between NTPC and NHAI for construction of the said ROB.</p> <p>Therefore, as detailed above, construction of the said ROB-25 is being done by NHAI and is linked to construction of the said 4 lane National Highway from Balwara to Dhangson, the works for which are under progress by NHAI. As of now, the works of the said ROB-25 are under full swing by NHAI and about 50% of the works have already been completed and the ROB is expected to be completed in totality by FY 25-26. It is pertinent to note that NHAI could take up the said works of ROB only after necessary clearances, land acquisition, etc. related with the said 4 lane NH road and award of contract for the same inclusive of the said ROB.</p> <p>In view of the above, as construction of the said ROB-25 works under original scope of works for the Khargone Project, is being done by NHAI and is linked with construction of 4 lane Balwara-Dhangson NH being done by NHAI, over which the Petitioner has no control, the Hon'ble Commission may be pleased to allow the projected capitalisation against the same in FY 25-26.</p>	
2	Replacement of GRP pipeline to MS Pipeline in 10 km length	1619.97		1619.97		25(2)(b), 26(1)(i)	Pl refer justification provided for this item in Form-9 for FY 24-25.	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2025-26

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IOC included in col. 3			
1	2	3	4	5= (3-4)	6			
3	Upgradation, along with Cyber Security suite, for HMI of DDCMIS	5247.00		5247.00		25(2)(b), 25(2)(c), 26(1)(b)	<p>It is submitted that the DDCMIS installed at the Instant Station is of M/s Emerson (DEM) make and HMI (Human-Machine Interface) application for the same is based on Windows 7 Operating System. However, Microsoft Inc. declared obsolescence and End of Life (EOL) of Windows 7 in Jan 2020. Due to the said obsolescence, it has become necessary to replace HMI application since:</p> <p>i) No security updates are presently available from Microsoft, exposing the system vulnerable to cyber threat.</p> <p>ii) Compatible hardware to run obsolete Windows OS is not available.</p> <p>iii) The HMI application software version available for Win 7 OS is not compatible with latest available Windows 10 Operating system.</p> <p>Also, the CEA Guideline on Cyber Security in Power Sector was issued in Oct 2021 and calls for compliance to following salient points:</p> <p>i) Phasing out of legacy systems</p> <p>ii) Ensuring security hardening with additional controls in consultation with the OEM</p> <p>iii) Maintaining system logs at least for 6 months duration.</p> <p>iv) Periodic cyber security audit</p> <p>v) IEC 62443 standard</p> <p>Further, CERT-In, Ministry of Electronics and IT, Govt issued directions under sub-section (5) of section 70B of the Information Technology Act, 2000 under which apart from various other cyber security measures, it has been mandated to enable logs of all ICT systems and maintain them securely for a rolling period of 180 days.</p> <p>Obsolescence Letter issued by OEM (M/s Emerson) in this regard is attached herewith at Annexure-A/10. Also, relevant documents with respect to obsolescence of Windows 7 OS, CEA Guidelines on Cyber Security 2021 and CERT-In directions dated 28.04.2022 are part of Annexure-A/5 attached herewith.</p> <p>In view of the above, the existing HMI of DDCMIS is being upgraded along with Cyber Security Suite Implementation and accordingly, Hon'ble Commission may be pleased to allow the instant projected capitalization on this behalf.</p>	
	Sub total A1	12651.97	0.00	12651.97	0.00			
A2	For assets eligible for RoE @ MCLR plus 350 basis points							
1	Additional Make-up Water Pipeline (Mild Steel) from Plant to Make-up Water Pump House	18736.04		18736.04		26(1)(b), 26(1)(c), 26(1)(f)	It is submitted that the detailed justification along with supporting documents in this regard, attached herewith at Annexure-A/1, may be referred.	
2	Biomass Handling System	32.45		32.45		26(1)(b), 26(1)(g)	Pl refer justification provided for this item in Form-9 for FY 24-25.	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2025-26

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IOC included in col. 3			
1	2	3	4	5= (3-4)	6			
3	CCTV System in FGD Area	351.17		351.17		26(1)(b), 26(1)(d)	It is submitted that Wet Limestone based FGD system has been operationalized in Unit-1 and Unit-2 of the Instant Station with effect from 25.05.2023 and 08.12.2023 respectively. It is pertinent to note that the remote visual monitoring of the entire FGD area is very much essential for security related aspects and detect/ avoid movement of unauthorized personnel so that timely action can be taken. Recognizing this need, the CISE, MHA, GoI, responsible for ensuring security of the Instant Station, vide letter dated 02.09.2023 intimated that the CISE committee has assessed requirement of CCTV cameras in various locations of the FGD area to ensure better security and surveillance of these areas. A copy of the said letter dated 02.09.2023 is enclosed herewith at Annexure-A/11. Therefore, as the instant capitalization corresponds to works on account of need for higher security and safety of the area as directed by statutory authority, the Hon'ble Commission may be pleased to allow the same under Regulation 26(1)(d) of Tariff Regulations 2024.	
4	Installation of Public Address (PA) System in FGD area	284.47		284.47		26(1)(b), 26(1)(d)	It is submitted that a Public Address (PA) System is an important component for factories, manufacturing plants and other industrial places including thermal power plants. Its main purpose is for public announcements, during emergency security situations and fire incidents, to ensure speedy response of the workmen/ employees deputed in the area and ensure their safety/ security. It is pertinent to note that Wet Limestone based FGD system has been operationalized in Unit-1 and Unit-2 of the Instant Station with effect from 25.05.2023 and 08.12.2023 respectively. Consequently, CISE, MHA, GoI, responsible for security of the Instant Station, vide their letter dated 15.10.2024 has directed the Petitioner to install PA System in the FGD area on urgent basis. A copy of the said letter is attached herewith at Annexure-A/12. Therefore, as the instant capitalization corresponds to works on account of need for higher security and safety of the area as directed by statutory authority, the Hon'ble Commission may be pleased to allow the same under Regulation 26(1)(d) of Tariff Regulations 2024.	
5	Closed Shed in Central Store for Boiler Pressure Parts	103.00		103.00		26(1)(d), 26(1)(i)	It is submitted that Boiler pressure parts are one of the most critical components of Boiler/ Station. Since there is no dedicated space available in the Central Store for storing various Boiler pressure parts such as coils, tubes, panels, etc., the same have to be stored in open space. This poses substantive risk of the critical Boiler pressure parts getting damaged/ corroded. Also, such critical material kept in open space has safety and security concerns. Such a situation may lead to unavailability of critical boiler components jeopardizing availability of the Station in case of Boiler tube leakages/ failure of boiler pressure parts. In view of the above, it is proposed to construct a proper Storage Shed in the Central Store dedicatedly for Boiler pressure parts. Proper storage of boiler pressure parts will enhance their life and also enable their use in critical situations. Hon'ble Commission may be pleased to allow the instant projected capitalization on this behalf.	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2025-26

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IOC included in col. 3			
1	2	3	4	5= (3-4)	6			
6	Permanent RAPH Basket Handling Platform In Boiler Area	450.00		450.00		26(1)(d), 26(1)(i)	<p>A Rotary Air Pre-Heater (RAPH) is a key component of thermal power plants that recovers heat from exhaust gas. It is installed in the rear of the boiler and is one of the largest heat recovery systems in a thermal power plant. It is submitted that during regular maintenance/annual overhaul of RAPH, Baskets are to be taken at ground level from 32.4 meter and 18.7 meter by the Electric Hoist. The present procedure has several disadvantages such as:</p> <ul style="list-style-type: none"> <li>• Highly time-consuming process</li> <li>• Handling such large quantity of Baskets by moving them and lowering to the Unloading area at ground level poses substantive safety risk</li> <li>• Frequent breakdown of Hoists further adds to wastage of time and also adds to safety risk</li> <li>• Due to limited space availability at ground floor at Unloading area, baskets are often required to be further moved to other locations. This whole process is highly time consuming, unsafe and involves a lot of movement at Ground Floor, which in turn affects other ongoing overhauling works.</li> </ul> <p>Therefore, it is proposed to fabricate and erect a permanent structural platform in Boiler area to create additional space for handling baskets of RAPH. Additional space shall enhance safety to the workplace and the workmen deployed thereby avoiding any unwanted eventuality. In addition, it will reduce downtime for peak, off-peak availability by reducing overhauling duration by 3-4 days and reducing the down time during regular maintenance.</p> <p>It is relevant to mention that Hon'ble Commission vide Order dated 08.01.2022 in Petition No 408/GT/2022 has allowed similar expenditure for 'economiser platform in Boilers' on account of safety provisions for workmen/Plant.</p> <p>In view of the above, Hon'ble Commission may be pleased to allow the instant projected capitalization.</p>	
7	Construction of Two number of Storage Sheds In Permanent Store Area	104.85		104.85	0.00	26(1)(b), 26(1)(d), 26(1)(i)	<p>It is submitted that there are 06 nos. of fully closed type sheds in the Permanent Store of the Instant Station. Materials are being received against Material purchase orders, transfer purchase orders, etc. through transport vehicles on daily basis. After receipt &amp; inspection, materials have to be kept in the designated storage area (closed/ semi closed/ open/ Air Conditions) as per the norms and standards.</p> <p>However, It is pertinent to note that at present all the available closed type sheds are almost full by valuable spares, due to which many critical spares items/ materials have to be kept in open area due to non-availability of closed/ semi-closed type shed. Important materials/ spares such as CHP conveyor belts, vacuum pumps, CEP pumps, idlers, pulleys, wagon tippers components, etc., which need to be kept in closed shed to ensure their safety, security and functionality and to prevent them from getting damaged/ deteriorated. Also, pertinently, owing to compliance to MOEF&amp;CC Notification regarding emission norms, FGD system has been operationalized in the Instant Station in FY 23-24, necessitating requirement of proper storage shed for FGD spares as well. Such proper storage facility for important/ critical material/ spares apart from ensuring their safety &amp; security will enhance their longevity and usability in times of need thereby improving the reliability of the Station on the whole.</p> <p>In view of the above, Hon'ble Commission may be pleased to allow the instant projected capitalization.</p>	
	Sub total A2	20061.98	0.00	20061.98	0.00			
	Total Add Cap (A1+A2)	32713.95	0.00	32713.95	0.00			

					PART-I Form-9 (Amount in Rs Lakh)
Year wise Statement of Additional Capitalisation after COD					
Name of the Petitioner : NTPC Ltd Name of the Generating Station : Khargone COD : 04.04.2020 For Financial Year : 2026-27					
Sl. No.	Head of Work / Equipment	ACE (Projected) Accrual basis as per IGAAP	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3			
A1	For assets eligible for Normal ROE				
1					
	Sub total A1	0.00			
A2	For assets eligible for RoE @ MCLR plus 350 basis points				
	Sub-total A2	0.00			
	Total Add Cap (A1+A2)	0.00			

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2027-28

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3-4)	6			
A1	For assets eligible for Normal ROE							
	Sub total A1	0.00	0.00	0.00	0.00			
A2	For assets eligible for RoE @ MCLR plus 350 basis points							
1	Additional Make-up Water Pipeline (Mild Steel) from Plant end to Make-up Water Pump House	15296.98				26(1)(b), 26(1)(c), 26(1)(i)	Pl refer justification provided for this item in Form-9 for FY 25-26.	
	Sub-total A2	15296.98	0.00	0.00	0.00			
	Total Add Cap (A1+A2)	15296.98	0.00	0.00	0.00			

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NTPC Ltd  
Name of the Generating Station : Khargone  
COD : 04.04.2020  
For Financial Year : 2028-29

Sl. No.	Head of Work / Equipment	ACE (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3-4)	6			
A1	For assets eligible for Normal ROE							
	Sub total A1	0.00	0.00	0.00	0.00			
A2	For assets eligible for RoE @ MCLR plus 350 basis points							
	Sub-total A2	0.00	0.00	0.00	0.00			
	Total Add Cap (A1+A2)	0.00	0.00	0.00	0.00			

PART-I FORM- 10					
Name of the Petitioner					NTPC Limited
Name of the Generating Station					Khargone
Date of Commercial Operation					04-04-2020
Amount in Rs Lakh					
Financial Year (Starting from COD)1	Projected				
	2024-25	2025-26	2026-27	2027-28	2028-29
1		3	4	5	6
Amount capitalised in Work/ Equipment					
Financing Details		<p align="center"><b>Add cap is proposed to be financed in Debt:Equity ratio of 70:30</b></p>			
Loan-1					
Loan-2					
Loan-3 and so on					
Total Loan2					
Equity					
Internal Resources					
Others (Pl. specify)					
Total					

Part-I  
**Form-11**

**Calculation of Depreciation**

**Name of the Petitioner : NTPC Ltd**

**Name of the Power Station : Khargone STPS (2x660 MW)**

Sl.No.	Name of the Assets	Depreciation Rates as per CERC's Depreciation Rate Schedule	Gross Block as on 01.04.2024 (Rs Lakh)	Depreciation as on 01.04.2024
1	Freehold Land	0.00%	24020.89	0.00
2	Leasehold Land	3.34%	4072.64	136.03
3	Land - Right of use	3.34%	1478.24	49.37
4	Roads, bridges, culverts & helip	3.34%	10028.32	334.95
5	Main Plant Buildings	3.34%	29118.02	972.54
6	Other Buildings	3.34%	37554.71	1254.33
7	Water supply, drainage & sewe	5.28%	1546.23	81.64
8	Railway siding	5.28%	138433.73	7309.30
9	Earth dam reservoir	5.28%	2225.59	117.51
10	Plant and machinery	5.28%	845780.96	44657.23
11	Furniture and fixtures	6.33%	3132.11	198.26
12	Office equipment	6.33%	2156.54	136.51
13	EDP, WP machines and satcom	15.00%	710.34	106.55
14	Vehicles including speedboats	9.50%	61.71	5.86
15	Construction equipments	5.28%	1513.38	79.91
16	Electrical Installations	5.28%	34036.03	1797.10
17	Communication equipments	6.33%	202.73	12.83
18	Hospital equipments	5.28%	132.52	7.00
19	Laboratory and workshop equi	6.33%	362.32	22.93
20	Software	15.00%	76.66	11.50
	<b>Total</b>		<b>1136643.67</b>	<b>57291.36</b>
	<b>Rate of Depreciation</b>			<b>5.0404%</b>

PART-I FORM- 12							
Statement of Depreciation							
Name of the Company :		NTPC Limited					
Name of the Power Station :		Khargone					
(Amount in Rs Lakh)							
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Opening Capital Cost	11,03,199.04	11,90,167.95	12,03,856.84	12,36,570.79	12,36,570.79	12,51,867.77
2	Closing Capital Cost	11,90,167.95	12,03,856.84	12,36,570.79	12,36,570.79	12,51,867.77	12,51,867.77
3	Average Capital Cost	11,46,683.49	11,97,012.39	12,20,213.81	12,36,570.79	12,44,219.28	12,51,867.77
3a	Opening capital cost of IT/ Software	763.37	787.00	787.00	787.00	787.00	787.00
3b	Addition in capital cost of IT/ Software*	23.63	0.00	0.00	0.00	0.00	0.00
3c	Closing capital cost of IT/ Software	787.00	787.00	787.00	787.00	787.00	787.00
3d	Average Cost of IT Equipments & Software	775.19	787.00	787.00	787.00	787.00	787.00
4	Freehold land	7,435.96	7,729.01	7,729.01	7,729.01	7,729.01	7,729.01
5	Rate of depreciation	5.0049%	5.0404%	5.0404%	5.0404%	5.0404%	5.0404%
6	Aggregate Depreciable value	10,25,400.30	10,70,433.74	10,91,315.02	11,06,036.30	11,12,919.94	11,19,803.58
7	Remaining Aggregate Depreciable Value at the beginning of the period	8,62,853.48	8,50,647.55	8,11,194.64	7,64,412.29	7,08,967.85	6,53,137.89
8	Balance useful life at the beginning of the period	21.92	20.92	19.92	18.92	17.92	16.92
9	Depreciation (for the period)	57,390.67	60,334.18	61,503.63	62,328.08	62,713.60	63,099.11
10	Depreciation (annualised)	57,390.67	60,334.18	61,503.63	62,328.08	62,713.60	63,099.11
11	Cumulative depreciation at the end of the period	2,19,937.49	2,80,120.38	3,41,624.00	4,03,952.09	4,66,665.69	5,29,764.80
12	Add: Cumulative depreciation adjustment of discharges/ reversals corresponding to un-discharged liabilities deducted as on 1.4.2009	-	-	-	-	-	-
13	Less: Cumulative depreciation adjustment on account of de-capitalisation	151.30	-	-	-	-	-
14	Net Cumulative depreciation at the end of the period after adjustments	2,19,786.19	2,80,120.38	3,41,624.00	4,03,952.09	4,66,665.69	5,29,764.80
* Shall be provided at truing-up							
(Petitioner)							

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
1	4.25% Fixed Rate Notes due 2026- Bullet payment 26.02.2026					
	Gross loan - Opening	3604.11	3604.11	3604.11	3604.11	3604.11
	Cumulative repayments of Loans upto previous period	0.00	0.00	3604.11	3604.11	3604.11
	Net loan - Opening	3604.11	3604.11	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3604.11	3604.11	0.00	0.00	0.00
	Repayments of Loans during the period	0.00	3604.11	0.00	0.00	0.00
	Net loan - Closing	3604.11	0.00	0.00	0.00	0.00
	Average Net Loan	3604.11	1802.05	0.00	0.00	0.00
	Rate of Interest on Loan	4.4955%	4.4955%	4.4955%	4.4955%	4.4955%
	Interest on Loan Annualised	162.02	81.01	0.00	0.00	0.00
2	2.75% Fixed Rate Notes due 2027- Bullet payment 01.02.2027					
	Gross loan - Opening	43857.49	43857.49	43857.49	43857.49	43857.49
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	43857.49	43857.49
	Net loan - Opening	43857.49	43857.49	43857.49	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	43857.49	43857.49	43857.49	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	43857.49	0.00	0.00
	Net loan - Closing	43857.49	43857.49	0.00	0.00	0.00
	Average Net Loan	43857.49	43857.49	21928.75	0.00	0.00
	Rate of Interest on Loan	2.9088%	2.9088%	2.9088%	2.9088%	2.9088%
	Interest on Loan Annualised	1275.74	1275.74	637.87	0.00	0.00
3	JPY Equ. 350Million A- Repayment From 12.11.2026					
	Gross loan - Opening	20928.88	20928.88	20928.88	20928.88	20928.88
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	6976.29	13952.59
	Net loan - Opening	20928.88	20928.88	20928.88	13952.59	6976.29
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	20928.88	20928.88	20928.88	13952.59	6976.29
	Repayments of Loans during the period	0.00	0.00	6976.29	6976.29	6976.29
	Net loan - Closing	20928.88	20928.88	13952.59	6976.29	0.00
	Average Net Loan	20928.88	20928.88	17440.73	10464.44	3488.15
	Rate of Interest on Loan	1.0219%	1.0219%	1.0219%	1.0219%	1.0219%
	Interest on Loan Annualised	213.87	213.87	178.23	106.94	35.65
4	JPY Equ. 350Million B- Repayment From 12.11.2026					
	Gross loan - Opening	27475.81	27475.81	27475.81	27475.81	27475.81
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	9158.60	18317.20
	Net loan - Opening	27475.81	27475.81	27475.81	18317.20	9158.60
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	27475.81	27475.81	27475.81	18317.20	9158.60
	Repayments of Loans during the period	0.00	0.00	9158.60	9158.60	9158.60
	Net loan - Closing	27475.81	27475.81	18317.20	9158.60	0.00
	Average Net Loan	27475.81	27475.81	22896.51	13737.90	4579.30
	Rate of Interest on Loan	1.0219%	1.0219%	1.0219%	1.0219%	1.0219%
	Interest on Loan Annualised	280.78	280.78	233.98	140.39	46.80
5	4.5% Fixed Rate Notes due 2028- Bullet payment 19.03.2028					
	Gross loan - Opening	56035.22	56035.22	56035.22	56035.22	56035.22
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	56035.22
	Net loan - Opening	56035.22	56035.22	56035.22	56035.22	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	56035.22	56035.22	56035.22	56035.22	0.00

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Repayments of Loans during the period	0.00	0.00	0.00	56035.22	0.00
	Net loan - Closing	56035.22	56035.22	56035.22	0.00	0.00
	Average Net Loan	56035.22	56035.22	56035.22	28017.61	0.00
	Rate of Interest on Loan	4.7599%	4.7599%	4.7599%	4.7599%	4.7599%
	Interest on Loan Annualised	2667.22	2667.22	2667.22	1333.61	0.00
6 JPY Equ. 300Million A- Repayment From 29.01.2028						
	Gross loan - Opening	24730.21	24730.21	24730.21	24730.21	24730.21
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	8243.40
	Net loan - Opening	24730.21	24730.21	24730.21	24730.21	16486.81
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	24730.21	24730.21	24730.21	24730.21	16486.81
	Repayments of Loans during the period	0.00	0.00	0.00	8243.40	8243.40
	Net loan - Closing	24730.21	24730.21	24730.21	16486.81	8243.40
	Average Net Loan	24730.21	24730.21	24730.21	20608.51	12365.10
	Rate of Interest on Loan	1.0995%	1.0995%	1.0995%	1.0995%	1.0995%
	Interest on Loan Annualised	271.91	271.91	271.91	226.59	135.95
7 JPY Equ. 300Million B- Repayment From 29.01.2028						
	Gross loan - Opening	20944.79	20944.79	20944.79	20944.79	20944.79
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	6981.60
	Net loan - Opening	20944.79	20944.79	20944.79	20944.79	13963.20
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	20944.79	20944.79	20944.79	20944.79	13963.20
	Repayments of Loans during the period	0.00	0.00	0.00	6981.60	6981.60
	Net loan - Closing	20944.79	20944.79	20944.79	13963.20	6981.60
	Average Net Loan	20944.79	20944.79	20944.79	17453.99	10472.40
	Rate of Interest on Loan	1.0995%	1.0995%	1.0995%	1.0995%	1.0995%
	Interest on Loan Annualised	230.29	230.29	230.29	191.91	115.14
8 3.75% Euro Bonds 2024 II- Bullet payment 03.04.2024						
	Gross loan - Opening	52290.08	52290.08	52290.08	52290.08	52290.08
	Cumulative repayments of Loans upto previous period	0.00	52290.08	52290.08	52290.08	52290.08
	Net loan - Opening	52290.08	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	52290.08	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	52290.08	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	26145.04	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	3.9666%	3.9666%	3.9666%	3.9666%	3.9666%
	Interest on Loan Annualised	1037.06	0.00	0.00	0.00	0.00
9 JPY Equ. 750Million I- Repayment From 15.05.2026						
	Gross loan - Opening	28692.69	28692.69	28692.69	28692.69	28692.69
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	7173.17	14346.35
	Net loan - Opening	28692.69	28692.69	28692.69	21519.52	14346.35
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	28692.69	28692.69	28692.69	21519.52	14346.35
	Repayments of Loans during the period	0.00	0.00	7173.17	7173.17	7173.17
	Net loan - Closing	28692.69	28692.69	21519.52	14346.35	7173.17
	Average Net Loan	28692.69	28692.69	25106.10	17932.93	10759.76
	Rate of Interest on Loan	0.9185%	0.9185%	0.9185%	0.9185%	0.9185%
	Interest on Loan Annualised	263.54	263.54	230.60	164.71	98.83

		Part-1 Form-13				
Calculation of Interest on Actual Loans						
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
10	JPY Equ. 750Million II- Repayment From 15.05.2026					
	Gross loan - Opening	15216.74	15216.74	15216.74	15216.74	15216.74
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	3804.18	7608.37
	Net loan - Opening	15216.74	15216.74	15216.74	11412.55	7608.37
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	15216.74	15216.74	15216.74	11412.55	7608.37
	Repayments of Loans during the period	0.00	0.00	3804.18	3804.18	3804.18
	Net loan - Closing	15216.74	15216.74	11412.55	7608.37	3804.18
	Average Net Loan	15216.74	15216.74	13314.65	9510.46	5706.28
	Rate of Interest on Loan	0.9185%	0.9185%	0.9185%	0.9185%	0.9185%
	Interest on Loan Annualised	139.77	139.77	122.30	87.35	52.41
11	JPY Equ. 750Million III- Repayment From 15.05.2026					
	Gross loan - Opening	7995.43	7995.43	7995.43	7995.43	7995.43
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1998.86	3997.72
	Net loan - Opening	7995.43	7995.43	7995.43	5996.57	3997.72
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	7995.43	7995.43	7995.43	5996.57	3997.72
	Repayments of Loans during the period	0.00	0.00	1998.86	1998.86	1998.86
	Net loan - Closing	7995.43	7995.43	5996.57	3997.72	1998.86
	Average Net Loan	7995.43	7995.43	6996.00	4997.14	2998.29
	Rate of Interest on Loan	0.9185%	0.9185%	0.9185%	0.9185%	0.9185%
	Interest on Loan Annualised	73.44	73.44	64.26	45.90	27.54
12	JPY Equ. 750Million IV- Repayment From 15.05.2026					
	Gross loan - Opening	4201.74	4201.74	4201.74	4201.74	4201.74
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1050.44	2100.87
	Net loan - Opening	4201.74	4201.74	4201.74	3151.31	2100.87
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4201.74	4201.74	4201.74	3151.31	2100.87
	Repayments of Loans during the period	0.00	0.00	1050.44	1050.44	1050.44
	Net loan - Closing	4201.74	4201.74	3151.31	2100.87	1050.44
	Average Net Loan	4201.74	4201.74	3676.53	2626.09	1575.65
	Rate of Interest on Loan	0.9185%	0.9185%	0.9185%	0.9185%	0.9185%
	Interest on Loan Annualised	38.59	38.59	33.77	24.12	14.47
13	JPY Equ. 750Million V- Repayment From 15.05.2026					
	Gross loan - Opening	6740.77	6740.77	6740.77	6740.77	6740.77
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1685.19	3370.38
	Net loan - Opening	6740.77	6740.77	6740.77	5055.58	3370.38
	Increase/ Decrease due to FERV					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6740.77	6740.77	6740.77	5055.58	3370.38
	Repayments of Loans during the period	0.00	0.00	1685.19	1685.19	1685.19
	Net loan - Closing	6740.77	6740.77	5055.58	3370.38	1685.19
	Average Net Loan	6740.77	6740.77	5898.17	4212.98	2527.79
	Rate of Interest on Loan	0.8893%	0.8893%	0.8893%	0.8893%	0.8893%
	Interest on Loan Annualised	59.95	59.95	52.45	37.47	22.48
14	JPY Equ. 750Million VI- Repayment From 15.05.2026					
	Gross loan - Opening	4375.50	4375.50	4375.50	4375.50	4375.50
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	1093.88	2187.75
	Net loan - Opening	4375.50	4375.50	4375.50	3281.63	2187.75
	Increase/ Decrease due to FERV					

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4375.50	4375.50	4375.50	3281.63	2187.75
	Repayments of Loans during the period	0.00	0.00	1093.88	1093.88	1093.88
	Net loan - Closing	4375.50	4375.50	3281.63	2187.75	1093.88
	Average Net Loan	4375.50	4375.50	3828.57	2734.69	1640.81
	Rate of Interest on Loan	0.8893%	0.8893%	0.8893%	0.8893%	0.8893%
	Interest on Loan Annualised	38.91	38.91	34.05	24.32	14.59
15	Euro Loan I Drawl III- Repayment from 14.08.2028					
	Gross loan - Opening	8200.00	8200.00	8200.00	8200.00	8200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	8200.00	8200.00	8200.00	8200.00	8200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	8200.00	8200.00	8200.00	8200.00	8200.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	8200.00
	Net loan - Closing	8200.00	8200.00	8200.00	8200.00	0.00
	Average Net Loan	8200.00	8200.00	8200.00	8200.00	4100.00
	Rate of Interest on Loan	5.0634%	5.0634%	5.0634%	5.0634%	5.0634%
	Interest on Loan Annualised	415.20	415.20	415.20	415.20	207.60
16	USD 750M Drawl I Repayment from 05.10.2026					
	Gross loan - Opening	700.00	700.00	700.00	700.00	700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	100.00	200.00
	Net loan - Opening	700.00	700.00	700.00	600.00	500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	700.00	700.00	700.00	600.00	500.00
	Repayments of Loans during the period	0.00	0.00	100.00	100.00	100.00
	Net loan - Closing	700.00	700.00	600.00	500.00	400.00
	Average Net Loan	700.00	700.00	650.00	550.00	450.00
	Rate of Interest on Loan	6.7698%	6.7698%	6.7698%	6.7698%	6.7698%
	Interest on Loan Annualised	47.39	47.39	44.00	37.23	30.46
17	USD 750M Drawl III Repayment from 05.10.2026					
	Gross loan - Opening	500.06	500.06	500.06	500.06	500.06
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	71.44	142.87
	Net loan - Opening	500.06	500.06	500.06	428.62	357.19
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	500.06	500.06	500.06	428.62	357.19
	Repayments of Loans during the period	0.00	0.00	71.44	71.44	71.44
	Net loan - Closing	500.06	500.06	428.62	357.19	285.75
	Average Net Loan	500.06	500.06	464.34	392.91	321.47
	Rate of Interest on Loan	6.7698%	6.7698%	6.7698%	6.7698%	6.7698%
	Interest on Loan Annualised	33.85	33.85	31.44	26.60	21.76
18	USD 750M Drawl IV Repayment from 05.10.2026					
	Gross loan - Opening	1499.98	1499.98	1499.98	1499.98	1499.98
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	214.28	428.57
	Net loan - Opening	1499.98	1499.98	1499.98	1285.70	1071.42
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1499.98	1499.98	1499.98	1285.70	1071.42
	Repayments of Loans during the period	0.00	0.00	214.28	214.28	214.28
	Net loan - Closing	1499.98	1499.98	1285.70	1071.42	857.13
	Average Net Loan	1499.98	1499.98	1392.84	1178.56	964.28
	Rate of Interest on Loan	6.7698%	6.7698%	6.7698%	6.7698%	6.7698%
	Interest on Loan Annualised	101.55	101.55	94.29	79.79	65.28
19	USD 750M Drawl V Repayment from 05.10.2026					
	Gross loan - Opening	400.00	400.00	400.00	400.00	400.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	57.14	114.29
	Net loan - Opening	400.00	400.00	400.00	342.86	285.71

						Part-1 Form-13
Calculation of Interest on Actual Loans						
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	400.00	400.00	400.00	342.86	285.71
	Repayments of Loans during the period	0.00	0.00	57.14	57.14	57.14
	Net loan - Closing	400.00	400.00	342.86	285.71	228.57
	Average Net Loan	400.00	400.00	371.43	314.29	257.14
	Rate of Interest on Loan	6.7698%	6.7698%	6.7698%	6.7698%	6.7698%
	Interest on Loan Annualised	27.08	27.08	25.14	21.28	17.41
20	USD 750M Drawl VI Repayment from 05.10.2026					
	Gross loan - Opening	3300.00	3300.00	3300.00	3300.00	3300.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	471.43	942.86
	Net loan - Opening	3300.00	3300.00	3300.00	2828.57	2357.14
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3300.00	3300.00	3300.00	2828.57	2357.14
	Repayments of Loans during the period	0.00	0.00	471.43	471.43	471.43
	Net loan - Closing	3300.00	3300.00	2828.57	2357.14	1885.71
	Average Net Loan	3300.00	3300.00	3064.29	2592.86	2121.43
	Rate of Interest on Loan	6.7698%	6.7698%	6.7698%	6.7698%	6.7698%
	Interest on Loan Annualised	223.40	223.40	207.45	175.53	143.62
21	JPY Equ. \$400 Million Drawl I Repayment from 31.08.2027					
	Gross loan - Opening	9000.00	9000.00	9000.00	9000.00	9000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	1285.71
	Net loan - Opening	9000.00	9000.00	9000.00	9000.00	7714.29
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	9000.00	9000.00	9000.00	9000.00	7714.29
	Repayments of Loans during the period	0.00	0.00	0.00	1285.71	1285.71
	Net loan - Closing	9000.00	9000.00	9000.00	7714.29	6428.57
	Average Net Loan	9000.00	9000.00	9000.00	8357.14	7071.43
	Rate of Interest on Loan	1.2155%	1.2155%	1.2155%	1.2155%	1.2155%
	Interest on Loan Annualised	109.40	109.40	109.40	101.58	85.95
22	JPY Equ. \$400 Million Drawl II Repayment from 31.08.2027					
	Gross loan - Opening	2500.00	2500.00	2500.00	2500.00	2500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	357.14
	Net loan - Opening	2500.00	2500.00	2500.00	2500.00	2142.86
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2500.00	2500.00	2500.00	2500.00	2142.86
	Repayments of Loans during the period	0.00	0.00	0.00	357.14	357.14
	Net loan - Closing	2500.00	2500.00	2500.00	2142.86	1785.71
	Average Net Loan	2500.00	2500.00	2500.00	2321.43	1964.29
	Rate of Interest on Loan	1.2155%	1.2155%	1.2155%	1.2155%	1.2155%
	Interest on Loan Annualised	30.39	30.39	30.39	28.22	23.88
23	JBIC Green Drawl I Repayment from 17.09.2023					
	Gross loan - Opening	6295.71	6295.71	6295.71	6295.71	6295.71
	Cumulative repayments of Loans upto previous period	0.00	503.66	755.49	1007.31	1259.14
	Net loan - Opening	6295.71	5792.05	5540.23	5288.40	5036.57
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6295.71	5792.05	5540.23	5288.40	5036.57
	Repayments of Loans during the period	503.66	251.83	251.83	251.83	251.83
	Net loan - Closing	5792.05	5540.23	5288.40	5036.57	4784.74
	Average Net Loan	6043.88	5666.14	5414.31	5162.48	4910.65
	Rate of Interest on Loan	1.0901%	1.0901%	1.0901%	1.0901%	1.0901%
	Interest on Loan Annualised	65.88	61.77	59.02	56.28	53.53
24	JBIC Green Drawl II Repayment from 17.09.2023					
	Gross loan - Opening	1477.53	1477.53	1477.53	1477.53	1477.53
	Cumulative repayments of Loans upto previous period	0.00	118.20	177.30	236.40	295.51
	Net loan - Opening	1477.53	1359.33	1300.22	1241.12	1182.02

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1477.53	1359.33	1300.22	1241.12	1182.02
	Repayments of Loans during the period	118.20	59.10	59.10	59.10	59.10
	Net loan - Closing	1359.33	1300.22	1241.12	1182.02	1122.92
	Average Net Loan	1418.43	1329.78	1270.67	1211.57	1152.47
	Rate of Interest on Loan	1.0901%	1.0901%	1.0901%	1.0901%	1.0901%
	Interest on Loan Annualised	15.46	14.50	13.85	13.21	12.56
25	JBIC Green Drawl III Repayment from 17.09.2023					
	Gross loan - Opening	3910.66	3910.66	3910.66	3910.66	3910.66
	Cumulative repayments of Loans upto previous period	0.00	312.85	469.28	625.71	782.13
	Net loan - Opening	3910.66	3597.81	3441.38	3284.96	3128.53
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3910.66	3597.81	3441.38	3284.96	3128.53
	Repayments of Loans during the period	312.85	156.43	156.43	156.43	156.43
	Net loan - Closing	3597.81	3441.38	3284.96	3128.53	2972.10
	Average Net Loan	3754.24	3519.60	3363.17	3206.74	3050.32
	Rate of Interest on Loan	1.0901%	1.0901%	1.0901%	1.0901%	1.0901%
	Interest on Loan Annualised	40.92	38.37	36.66	34.96	33.25
26	JBIC Green Drawl IV Repayment from 17.09.2023					
	Gross loan - Opening	785.79	785.79	785.79	785.79	785.79
	Cumulative repayments of Loans upto previous period	0.00	62.86	94.29	125.73	157.16
	Net loan - Opening	785.79	722.93	691.49	660.06	628.63
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	785.79	722.93	691.49	660.06	628.63
	Repayments of Loans during the period	62.86	31.43	31.43	31.43	31.43
	Net loan - Closing	722.93	691.49	660.06	628.63	597.20
	Average Net Loan	754.36	707.21	675.78	644.35	612.91
	Rate of Interest on Loan	1.0901%	1.0901%	1.0901%	1.0901%	1.0901%
	Interest on Loan Annualised	8.22	7.71	7.37	7.02	6.68
27	HDFC Bank Limited-III- Repayment from 04.12.2021 -9Y					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	1000.00	1333.33	1666.67	2000.00	2333.33
	Net loan - Opening	2000.00	1666.67	1333.33	1000.00	666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	1666.67	1333.33	1000.00	666.67
	Repayments of Loans during the period	333.33	333.33	333.33	333.33	333.33
	Net loan - Closing	1666.67	1333.33	1000.00	666.67	333.33
	Average Net Loan	1833.33	1500.00	1166.67	833.33	500.00
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on Loan Annualised	145.75	119.25	92.75	66.25	39.75
28	HDFC Bank Limited-V- Repayment from 25.09.2024 -9Y					
	Gross loan - Opening	49168.00	49168.00	49168.00	49168.00	49168.00
	Cumulative repayments of Loans upto previous period	0.00	5463.11	10926.22	16389.33	21852.44
	Net loan - Opening	49168.00	43704.89	38241.78	32778.67	27315.56
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	49168.00	43704.89	38241.78	32778.67	27315.56
	Repayments of Loans during the period	5463.11	5463.11	5463.11	5463.11	5463.11
	Net loan - Closing	43704.89	38241.78	32778.67	27315.56	21852.44
	Average Net Loan	46436.44	40973.33	35510.22	30047.11	24584.00
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on Loan Annualised	3691.70	3257.38	2823.06	2388.75	1954.43
29	HDFC Bank Limited-VI- Repayment from 26.09.2025 -9Y					
	Gross loan - Opening	8800.00	8800.00	8800.00	8800.00	8800.00

		Part-1 Form-13				
Calculation of Interest on Actual Loans						
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Cumulative repayments of Loans upto previous period	0.00	0.00	977.78	1955.56	2933.33
	Net loan - Opening	8800.00	8800.00	7822.22	6844.44	5866.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	8800.00	8800.00	7822.22	6844.44	5866.67
	Repayments of Loans during the period	0.00	977.78	977.78	977.78	977.78
	Net loan - Closing	8800.00	7822.22	6844.44	5866.67	4888.89
	Average Net Loan	8800.00	8311.11	7333.33	6355.56	5377.78
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on Loan Annualised	699.60	660.73	583.00	505.27	427.53
30						
HDFC IX (Refinancing of Syndicate IV)						
	Gross loan - Opening	12000.00	12000.00	12000.00	12000.00	12000.00
	Cumulative repayments of Loans upto previous period	0.00	1000.00	2000.00	3000.00	4000.00
	Net loan - Opening	12000.00	11000.00	10000.00	9000.00	8000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	12000.00	11000.00	10000.00	9000.00	8000.00
	Repayments of Loans during the period	1000.00	1000.00	1000.00	1000.00	1000.00
	Net loan - Closing	11000.00	10000.00	9000.00	8000.00	7000.00
	Average Net Loan	11500.00	10500.00	9500.00	8500.00	7500.00
	Rate of Interest on Loan	8.4000%	8.4000%	8.4000%	8.4000%	8.4000%
	Interest on Loan Annualised	966.00	882.00	798.00	714.00	630.00
31						
HDFC IX						
	Gross loan - Opening	20400.00	20400.00	20400.00	20400.00	20400.00
	Cumulative repayments of Loans upto previous period	0.00	1700.00	3400.00	5100.00	6800.00
	Net loan - Opening	20400.00	18700.00	17000.00	15300.00	13600.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	20400.00	18700.00	17000.00	15300.00	13600.00
	Repayments of Loans during the period	1700.00	1700.00	1700.00	1700.00	1700.00
	Net loan - Closing	18700.00	17000.00	15300.00	13600.00	11900.00
	Average Net Loan	19550.00	17850.00	16150.00	14450.00	12750.00
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on Loan Annualised	1554.23	1419.08	1283.93	1148.78	1013.63
32						
HDFC X Total						
	Gross loan - Opening	11000.00	11000.00	11000.00	11000.00	11000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	916.67	1833.33	2750.00
	Net loan - Opening	11000.00	11000.00	10083.33	9166.67	8250.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	11000.00	11000.00	10083.33	9166.67	8250.00
	Repayments of Loans during the period	0.00	916.67	916.67	916.67	916.67
	Net loan - Closing	11000.00	10083.33	9166.67	8250.00	7333.33
	Average Net Loan	11000.00	10541.67	9625.00	8708.33	7791.67
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on Loan Annualised	874.50	838.06	765.19	692.31	619.44
33						
HDFC XI						
	Gross loan - Opening	53600.00	53600.00	53600.00	53600.00	53600.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	4466.67
	Net loan - Opening	53600.00	53600.00	53600.00	53600.00	49133.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	53600.00	53600.00	53600.00	53600.00	49133.33
	Repayments of Loans during the period	0.00	0.00	0.00	4466.67	4466.67
	Net loan - Closing	53600.00	53600.00	53600.00	49133.33	44666.67
	Average Net Loan	53600.00	53600.00	53600.00	51366.67	46900.00
	Rate of Interest on Loan	7.8400%	7.8400%	7.8400%	7.8400%	7.8400%
	Interest on Loan Annualised	4202.24	4202.24	4202.24	4027.15	3676.96
34						
HDFC XII Total						
	Gross loan - Opening	6300.00	6300.00	6300.00	6300.00	6300.00

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	525.00
	Net loan - Opening	6300.00	6300.00	6300.00	6300.00	5775.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6300.00	6300.00	6300.00	6300.00	5775.00
	Repayments of Loans during the period	0.00	0.00	0.00	525.00	525.00
	Net loan - Closing	6300.00	6300.00	6300.00	5775.00	5250.00
	Average Net Loan	6300.00	6300.00	6300.00	6037.50	5512.50
	Rate of Interest on Loan	7.6000%	7.6000%	7.6000%	7.6000%	7.6000%
	Interest on Loan Annualised	478.80	478.80	478.80	458.85	418.95
35	ICICI VII					
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous period	0.00	83.33	166.67	250.00	333.33
	Net loan - Opening	1000.00	916.67	833.33	750.00	666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	916.67	833.33	750.00	666.67
	Repayments of Loans during the period	83.33	83.33	83.33	83.33	83.33
	Net loan - Closing	916.67	833.33	750.00	666.67	583.33
	Average Net Loan	958.33	875.00	791.67	708.33	625.00
	Rate of Interest on Loan	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
	Interest on Loan Annualised	76.67	70.00	63.33	56.67	50.00
36	PNB-III- Repayment from 01.02.2022 -9Y					
	Gross loan - Opening	13500.00	13500.00	13500.00	13500.00	13500.00
	Cumulative repayments of Loans upto previous period	4500.00	6000.00	7500.00	9000.00	10500.00
	Net loan - Opening	9000.00	7500.00	6000.00	4500.00	3000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	9000.00	7500.00	6000.00	4500.00	3000.00
	Repayments of Loans during the period	1500.00	1500.00	1500.00	1500.00	1500.00
	Net loan - Closing	7500.00	6000.00	4500.00	3000.00	1500.00
	Average Net Loan	8250.00	6750.00	5250.00	3750.00	2250.00
	Rate of Interest on Loan	7.9000%	7.9000%	7.9000%	7.9000%	7.9000%
	Interest on Loan Annualised	651.75	533.25	414.75	296.25	177.75
37	PNB-IV- Repayment from 01.02.2022 -9Y					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans upto previous period	1111.11	1666.67	2222.22	2777.78	3333.33
	Net loan - Opening	3888.89	3333.33	2777.78	2222.22	1666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3888.89	3333.33	2777.78	2222.22	1666.67
	Repayments of Loans during the period	555.56	555.56	555.56	555.56	555.56
	Net loan - Closing	3333.33	2777.78	2222.22	1666.67	1111.11
	Average Net Loan	3611.11	3055.56	2500.00	1944.44	1388.89
	Rate of Interest on Loan	7.9000%	7.9000%	7.9000%	7.9000%	7.9000%
	Interest on Loan Annualised	285.28	241.39	197.50	153.61	109.72
38	State Bank of India-VIII- Repayment from 31.01.2022- 9Y					
	Gross loan - Opening	10100.00	10100.00	10100.00	10100.00	10100.00
	Cumulative repayments of Loans upto previous period	3366.67	4488.89	5611.11	6733.33	7855.56
	Net loan - Opening	6733.33	5611.11	4488.89	3366.67	2244.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6733.33	5611.11	4488.89	3366.67	2244.44
	Repayments of Loans during the period	1122.22	1122.22	1122.22	1122.22	1122.22
	Net loan - Closing	5611.11	4488.89	3366.67	2244.44	1122.22
	Average Net Loan	6172.22	5050.00	3927.78	2805.56	1683.33
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	506.12	414.10	322.08	230.06	138.03

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
39	State Bank of India-IX- Repayment from 31.03.2021- 9Y					
	Gross loan - Opening	7500.00	7500.00	7500.00	7500.00	7500.00
	Cumulative repayments of Loans upto previous period	3333.33	4166.67	5000.00	5833.33	6666.67
	Net loan - Opening	4166.67	3333.33	2500.00	1666.67	833.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4166.67	3333.33	2500.00	1666.67	833.33
	Repayments of Loans during the period	833.33	833.33	833.33	833.33	833.33
	Net loan - Closing	3333.33	2500.00	1666.67	833.33	0.00
	Average Net Loan	3750.00	2916.67	2083.33	1250.00	416.67
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	307.50	239.17	170.83	102.50	34.17
40	State Bank of India-X- Repayment from 01.10.2024- 9Y					
	Gross loan - Opening	29000.00	29000.00	29000.00	29000.00	29000.00
	Cumulative repayments of Loans upto previous period	0.00	3222.22	6444.44	9666.67	12888.89
	Net loan - Opening	29000.00	25777.78	22555.56	19333.33	16111.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	29000.00	25777.78	22555.56	19333.33	16111.11
	Repayments of Loans during the period	3222.22	3222.22	3222.22	3222.22	3222.22
	Net loan - Closing	25777.78	22555.56	19333.33	16111.11	12888.89
	Average Net Loan	27388.89	24166.67	20944.44	17722.22	14500.00
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	2245.89	1981.67	1717.44	1453.22	1189.00
41	State Bank of India-XI- Repayment from 01.10.2022- 9Y					
	Gross loan - Opening	49500.00	49500.00	49500.00	49500.00	49500.00
	Cumulative repayments of Loans upto previous period	11000.00	16500.00	22000.00	27500.00	33000.00
	Net loan - Opening	38500.00	33000.00	27500.00	22000.00	16500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	38500.00	33000.00	27500.00	22000.00	16500.00
	Repayments of Loans during the period	5500.00	5500.00	5500.00	5500.00	5500.00
	Net loan - Closing	33000.00	27500.00	22000.00	16500.00	11000.00
	Average Net Loan	35750.00	30250.00	24750.00	19250.00	13750.00
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	2931.50	2480.50	2029.50	1578.50	1127.50
42	State Bank of India-XII- Repayment from 31.03.2026- 9Y					
	Gross loan - Opening	15000.00	15000.00	15000.00	15000.00	15000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	1666.67	3333.33	5000.00
	Net loan - Opening	15000.00	15000.00	13333.33	11666.67	10000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	15000.00	15000.00	13333.33	11666.67	10000.00
	Repayments of Loans during the period	0.00	1666.67	1666.67	1666.67	1666.67
	Net loan - Closing	15000.00	13333.33	11666.67	10000.00	8333.33
	Average Net Loan	15000.00	14166.67	12500.00	10833.33	9166.67
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	1230.00	1161.67	1025.00	888.33	751.67
43	AXIS BANK IV					
	Gross loan - Opening	11500.00	11500.00	11500.00	11500.00	11500.00
	Cumulative repayments of Loans upto previous period	1150.00	2300.00	3450.00	4600.00	5750.00
	Net loan - Opening	10350.00	9200.00	8050.00	6900.00	5750.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	10350.00	9200.00	8050.00	6900.00	5750.00
	Repayments of Loans during the period	1150.00	1150.00	1150.00	1150.00	1150.00
	Net loan - Closing	9200.00	8050.00	6900.00	5750.00	4600.00

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
	Average Net Loan	9775.00	8625.00	7475.00	6325.00	5175.00
	Rate of Interest on Loan	8.0000%	8.0000%	8.0000%	8.0000%	8.0000%
	Interest on Loan Annualised	782.00	690.00	598.00	506.00	414.00
44	UCO BANK V					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	250.00	500.00	750.00
	Net loan - Opening	3000.00	3000.00	2750.00	2500.00	2250.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	2750.00	2500.00	2250.00
	Repayments of Loans during the period	0.00	250.00	250.00	250.00	250.00
	Net loan - Closing	3000.00	2750.00	2500.00	2250.00	2000.00
	Average Net Loan	3000.00	2875.00	2625.00	2375.00	2125.00
	Rate of Interest on Loan	8.1000%	8.1000%	8.1000%	8.1000%	8.1000%
	Interest on Loan Annualised	243.00	232.88	212.63	192.38	172.13
45	Bond - 54 Repayment from 25.03.2023 - 3Y					
	Gross loan - Opening	45000.00	45000.00	45000.00	45000.00	45000.00
	Cumulative repayments of Loans upto previous period	27000.00	45000.00	45000.00	45000.00	45000.00
	Net loan - Opening	18000.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	18000.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	18000.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	9000.00	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
	Interest on Loan Annualised	766.80	0.00	0.00	0.00	0.00
46	Bond - 57 Repayment from 15.12.2025 - Bullet					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	3000.00	3000.00	3000.00
	Net loan - Opening	3000.00	3000.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	0.00	0.00	0.00
	Repayments of Loans during the period	0.00	3000.00	0.00	0.00	0.00
	Net loan - Closing	3000.00	0.00	0.00	0.00	0.00
	Average Net Loan	3000.00	1500.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2200%	8.2200%	8.2200%	8.2200%	8.2200%
	Interest on Loan Annualised	246.60	123.30	0.00	0.00	0.00
47	Bond - 60 Repayment from 05.05.2026 Bullet					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	500.00	500.00
	Net loan - Opening	500.00	500.00	500.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	500.00	500.00	500.00	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	500.00	0.00	0.00
	Net loan - Closing	500.00	500.00	0.00	0.00	0.00
	Average Net Loan	500.00	500.00	250.00	0.00	0.00
	Rate of Interest on Loan	8.0800%	8.0800%	8.0800%	8.0800%	8.0800%
	Interest on Loan Annualised	40.40	40.40	20.20	0.00	0.00
48	Bond -61 Repayment from 27.05.2021 3 5 Yearly Inst					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	666.67	666.67	666.67	1333.33	1333.33
	Net loan - Opening	1333.33	1333.33	1333.33	666.67	666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1333.33	1333.33	1333.33	666.67	666.67

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Repayments of Loans during the period	0.00	0.00	666.67	0.00	0.00
	Net loan - Closing	1333.33	1333.33	666.67	666.67	666.67
	Average Net Loan	1333.33	1333.33	1000.00	666.67	666.67
	Rate of Interest on Loan	8.1300%	8.1300%	8.1300%	8.1300%	8.1300%
	Interest on Loan Annualised	108.40	108.40	81.30	54.20	54.20
49 Bond - 62 Repayment from 23.08.2026 Bullet						
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	3000.00	3000.00
	Net loan - Opening	3000.00	3000.00	3000.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	3000.00	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	3000.00	0.00	0.00
	Net loan - Closing	3000.00	3000.00	0.00	0.00	0.00
	Average Net Loan	3000.00	3000.00	1500.00	0.00	0.00
	Rate of Interest on Loan	7.6100%	7.6100%	7.6100%	7.6100%	7.6100%
	Interest on Loan Annualised	228.30	228.30	114.15	0.00	0.00
50 Bond - 63 Repayment from 16.09.2026 Bullet						
	Gross loan - Opening	3100.00	3100.00	3100.00	3100.00	3100.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	3100.00	3100.00
	Net loan - Opening	3100.00	3100.00	3100.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3100.00	3100.00	3100.00	0.00	0.00
	Repayments of Loans during the period	0.00	0.00	3100.00	0.00	0.00
	Net loan - Closing	3100.00	3100.00	0.00	0.00	0.00
	Average Net Loan	3100.00	3100.00	1550.00	0.00	0.00
	Rate of Interest on Loan	7.5000%	7.5000%	7.5000%	7.5000%	7.5000%
	Interest on Loan Annualised	232.50	232.50	116.25	0.00	0.00
51 Bond - 64 Repayment from 07.11.2031 Bullet						
	Gross loan - Opening	3200.00	3200.00	3200.00	3200.00	3200.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	3200.00	3200.00	3200.00	3200.00	3200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3200.00	3200.00	3200.00	3200.00	3200.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	3200.00	3200.00	3200.00	3200.00	3200.00
	Average Net Loan	3200.00	3200.00	3200.00	3200.00	3200.00
	Rate of Interest on Loan	7.5200%	7.5200%	7.5200%	7.5200%	7.5200%
	Interest on Loan Annualised	240.64	240.64	240.64	240.64	240.64
52 Bond - 66 Repayment from 14.12.2031 Bullet						
	Gross loan - Opening	24700.00	24700.00	24700.00	24700.00	24700.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	24700.00	24700.00	24700.00	24700.00	24700.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	24700.00	24700.00	24700.00	24700.00	24700.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	24700.00	24700.00	24700.00	24700.00	24700.00
	Average Net Loan	24700.00	24700.00	24700.00	24700.00	24700.00
	Rate of Interest on Loan	7.4000%	7.4000%	7.4000%	7.4000%	7.4000%
	Interest on Loan Annualised	1827.80	1827.80	1827.80	1827.80	1827.80
53 Bond - 67 Repayment from 15.01.2029 Bullet						
	Gross loan - Opening	36500.00	36500.00	36500.00	36500.00	36500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	36500.00	36500.00	36500.00	36500.00	36500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	36500.00	36500.00	36500.00	36500.00	36500.00

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	36500.00
	Net loan - Closing	36500.00	36500.00	36500.00	36500.00	0.00
	Average Net Loan	36500.00	36500.00	36500.00	36500.00	18250.00
	Rate of Interest on Loan	8.3300%	8.3300%	8.3300%	8.3300%	8.3300%
	Interest on Loan Annualised	3040.45	3040.45	3040.45	3040.45	1520.23
54	Bond - 69 Repayment from 17.07.2029 Bullet					
	Gross loan - Opening	13500.00	13500.00	13500.00	13500.00	13500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	13500.00	13500.00	13500.00	13500.00	13500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	13500.00	13500.00	13500.00	13500.00	13500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	13500.00	13500.00	13500.00	13500.00	13500.00
	Average Net Loan	13500.00	13500.00	13500.00	13500.00	13500.00
	Rate of Interest on Loan	7.3500%	7.3500%	7.3500%	7.3500%	7.3500%
	Interest on Loan Annualised	992.25	992.25	992.25	992.25	992.25
55	Bond - 73 Repayment from 27.01.2031 Bullet					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	3000.00	3000.00	3000.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	3000.00	3000.00	3000.00	3000.00	3000.00
	Average Net Loan	3000.00	3000.00	3000.00	3000.00	3000.00
	Rate of Interest on Loan	6.4600%	6.4600%	6.4600%	6.4600%	6.4600%
	Interest on Loan Annualised	193.80	193.80	193.80	193.80	193.80
56	Bond - 74 Repayment from 21.04.2036 Bullet					
	Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	2000.00	2000.00	2000.00	2000.00	2000.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	2000.00	2000.00	2000.00	2000.00	2000.00
	Average Net Loan	2000.00	2000.00	2000.00	2000.00	2000.00
	Rate of Interest on Loan	6.9000%	6.9000%	6.9000%	6.9000%	6.9000%
	Interest on Loan Annualised	138.00	138.00	138.00	138.00	138.00
57	Bond - 78 Repayment from 25.08.2032 Bullet					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	500.00	500.00	500.00	500.00	500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	500.00	500.00	500.00	500.00	500.00
	Repayments of Loans during the period	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	500.00	500.00	500.00	500.00	500.00
	Average Net Loan	500.00	500.00	500.00	500.00	500.00
	Rate of Interest on Loan	7.4700%	7.4700%	7.4700%	7.4700%	7.4700%
	Interest on Loan Annualised	37.35	37.35	37.35	37.35	37.35
	TOTAL LOAN					
	Gross loan - Opening	919599.79	919599.79	919599.79	919599.79	919599.79
	Cumulative repayments of Loans upto previous period*	167700.37	261451.14	294828.25	406580.33	545102.99
	Net loan - Opening	751899.41	658148.65	624771.53	513019.46	374496.80
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	751899.41	658148.65	624771.53	513019.46	374496.80

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2						
	Repayments of Loans during the period	93750.77	33377.12	111752.08	138522.66	127187.44
	Net loan - Closing	658148.65	624771.53	513019.46	374496.80	247309.36
	Average Net Loan	705024.03	641460.09	568895.49	443758.13	310903.08
	Rate of Interest on Loan	5.3669%	5.2772%	5.3457%	5.7156%	6.1803%
	Interest on Loan Annualised	37837.63	33850.94	30411.34	25363.54	19214.76
	Note: In case of foreign loans, opening loan balance considered at following exchange rate Exchange rate 30.06.2018 US \$= INR 69.24, Euro = INR 81.01, JPY= INR 0.6297					
	<b>State Bank of India-VIII- D11 Repayment from 31.01.2022- 9Y</b>					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous period	166.67	222.22	277.78	333.33	388.89
	Net loan - Opening	333.33	277.78	222.22	166.67	111.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	333.33	277.78	222.22	166.67	111.11
	Repayments of Loans during the period	55.56	55.56	55.56	55.56	55.56
	Net loan - Closing	277.78	222.22	166.67	111.11	55.56
	Average Net Loan	305.56	250.00	194.44	138.89	83.33
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	25.06	20.50	15.94	11.39	6.83
	<b>State Bank of India-VIII- D14 Repayment from 31.01.2022- 9Y</b>					
	Gross loan - Opening	1700.00	1700.00	1700.00	1700.00	1700.00
	Cumulative repayments of Loans upto previous period	566.67	755.56	944.44	1133.33	1322.22
	Net loan - Opening	1133.33	944.44	755.56	566.67	377.78
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1133.33	944.44	755.56	566.67	377.78
	Repayments of Loans during the period	188.89	188.89	188.89	188.89	188.89
	Net loan - Closing	944.44	755.56	566.67	377.78	188.89
	Average Net Loan	1038.89	850.00	661.11	472.22	283.33
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	85.19	69.70	54.21	38.72	23.23
	<b>State Bank of India-VIII- D19 Repayment from 31.01.2022- 9Y</b>					
	Gross loan - Opening	6100.00	6100.00	6100.00	6100.00	6100.00
	Cumulative repayments of Loans upto previous period	2033.33	2711.11	3388.89	4066.67	4744.44
	Net loan - Opening	4066.67	3388.89	2711.11	2033.33	1355.56
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	4066.67	3388.89	2711.11	2033.33	1355.56
	Repayments of Loans during the period	677.78	677.78	677.78	677.78	677.78
	Net loan - Closing	3388.89	2711.11	2033.33	1355.56	677.78
	Average Net Loan	3727.78	3050.00	2372.22	1694.44	1016.67
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	305.68	250.10	194.52	138.94	83.37
	<b>State Bank of India-VIII- D20 Repayment from 31.01.2022- 9Y</b>					
	Gross loan - Opening	1800.00	1800.00	1800.00	1800.00	1800.00
	Cumulative repayments of Loans upto previous period	600.00	800.00	1000.00	1200.00	1400.00
	Net loan - Opening	1200.00	1000.00	800.00	600.00	400.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1200.00	1000.00	800.00	600.00	400.00
	Repayments of Loans during the period	200.00	200.00	200.00	200.00	200.00
	Net loan - Closing	1000.00	800.00	600.00	400.00	200.00
	Average Net Loan	1100.00	900.00	700.00	500.00	300.00
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	90.20	73.80	57.40	41.00	24.60

Calculation of Interest on Actual Loans						Part-1 Form-13
Name of the Company		NTPC Ltd				
Name of the Power Station		Khargone				
Sl. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2					
<b>State Bank of India-VIII-Total</b>						
	Gross loan - Opening	10100.00	10100.00	10100.00	10100.00	10100.00
	Cumulative repayments of Loans upto previous period	3366.67	4488.89	5611.11	6733.33	7855.56
	Net loan - Opening	6733.33	5611.11	4488.89	3366.67	2244.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	6733.33	5611.11	4488.89	3366.67	2244.44
	Repayments of Loans during the period	1122.22	1122.22	1122.22	1122.22	1122.22
	Net loan - Closing	5611.11	4488.89	3366.67	2244.44	1122.22
	Average Net Loan	6172.22	5050.00	3927.78	2805.56	1683.33
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	506.12	414.10	322.08	230.06	138.03
<b>State Bank of India-X- D2 Repayment from 01.10.2024- 9Y</b>						
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous period	0.00	333.33	666.67	1000.00	1333.33
	Net loan - Opening	3000.00	2666.67	2333.33	2000.00	1666.67
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	2666.67	2333.33	2000.00	1666.67
	Repayments of Loans during the period	333.33	333.33	333.33	333.33	333.33
	Net loan - Closing	2666.67	2333.33	2000.00	1666.67	1333.33
	Average Net Loan	2833.33	2500.00	2166.67	1833.33	1500.00
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8.2000%
	Interest on Loan Annualised	232.33	205.00	177.67	150.33	123.00
<b>State Bank of India-X- D7 Repayment from 01.10.2024- 9Y</b>						
	Gross loan - Opening	18000.00	18000.00	18000.00	18000.00	18000.00
	Cumulative repayments of Loans upto previous period	0.00	2000.00	4000.00	6000.00	8000.00
	Net loan - Opening	18000.00	16000.00	14000.00	12000.00	10000.00

	BANK	RATE OF INTEREST	From	To
1	State Bank of India - VIII	8.20%	14-Feb-24	31-Mar-24
2	State Bank of India - IX	8.20%	14-Feb-24	31-Mar-24
3	State Bank of India - X	8.20%	25-Dec-23	31-Mar-24
4	State Bank of India - XI	8.20%	11-Jan-24	31-Mar-24
5	State Bank of India - XII	8.20%	11-Jan-24	31-Mar-24
6	HDFC Bank Limited-III	7.95%	01-Jun-23	31-Mar-24
7	HDFC Bank Limited-V	7.95%	01-Jun-23	31-Mar-24
8	HDFC Bank Ltd. VI	7.95%	01-Jun-23	31-Mar-24
9	HDFC-IX	7.95%	01-Jun-23	31-Mar-24
10	HDFC-X	7.95%	01-Jun-23	31-Mar-24
11	HDFC Bank Limited-XI	7.84%	11-Mar-24	31-Mar-24
12	HDFC Bank Limited-XII T1 D1	7.60%	13-Mar-24	31-Mar-24
13	Punjab National Bank III	7.90%	01-Apr-23	31-Mar-24
14	PNB-IV	7.90%	01-Apr-23	31-Mar-24
15	Axis Bank-IV	8.00%	01-Apr-23	31-Mar-24
16	ICICI Bank-VII	8.00%	13-Sep-23	31-Mar-24
17	UCO Bank-V	8.10%	10-Mar-24	31-Mar-24

## Interest Rate Flow

From 31-03-2024  
To 31-03-2024

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
JPY Equ. 350Million A	01-04-2019	11-04-2019	0.95933%	5.48000%	100.00000%	Act/360	2019-20	1.014735%	100%	0	0	
JPY Equ. 350Million A	12-04-2019	10-10-2019	0.95700%	5.48000%	100.00000%	Act/360	2019-20	1.012270%	100%	0	0	
JPY Equ. 350Million A	11-10-2019	29-02-2020	0.95000%	5.48000%	100.00000%	Act/360	2019-20	1.004866%	100%	0	0	
JPY Equ. 350Million A	01-03-2020	31-03-2020	0.95000%	5.48000%	100.00000%	Act/360	2019-20	1.004866%	100%	0	0	
JPY Equ. 350Million A	01-04-2020	12-04-2020	0.95000%	5.48000%	100.00000%	Act/360	2020-21	1.004866%	100%	0	0	
JPY Equ. 350Million A	13-04-2020	11-10-2020	0.97417%	5.48000%	100.00000%	Act/360	2020-21	1.030432%	100%	0	0	
JPY Equ. 350Million A	12-10-2020	31-03-2021	0.95000%	5.48000%	100.00000%	Act/360	2020-21	1.004866%	100%	0	0	
JPY Equ. 350Million A	01-04-2021	11-04-2021	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-04-2021	10-10-2021	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million A	11-10-2021	31-03-2022	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million A	01-04-2022	10-04-2022	0.95000%	5.48000%	100.00000%	Act/360	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million A	11-04-2022	11-07-2022	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-07-2022	11-10-2022	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-10-2022	11-01-2023	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-01-2023	31-03-2023	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million A	01-04-2023	11-04-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-04-2023	11-07-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-07-2023	11-10-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-10-2023	11-01-2024	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million A	12-01-2024	31-03-2024	0.96342%	5.48000%	100.00000%	Act/365	2023-24	1.019061%	100%	1	0.0102185	1.02190%
JPY Equ. 350Million A Weighted Average rate												
JPY Equ. 350Million B	01-04-2019	11-04-2019	0.95933%	5.48000%	100.00000%	Act/360	2019-20	1.014735%	100%	0	0	
JPY Equ. 350Million B	12-04-2019	10-10-2019	0.95700%	5.48000%	100.00000%	Act/360	2019-20	1.012270%	100%	0	0	
JPY Equ. 350Million B	11-10-2019	29-02-2020	0.95000%	5.48000%	100.00000%	Act/360	2019-20	1.004866%	100%	0	0	
JPY Equ. 350Million B	01-03-2020	31-03-2020	0.95000%	5.48000%	100.00000%	Act/360	2019-20	1.004866%	100%	0	0	
JPY Equ. 350Million B	01-04-2020	12-04-2020	0.95000%	5.48000%	100.00000%	Act/360	2020-21	1.004866%	100%	0	0	
JPY Equ. 350Million B	13-04-2020	11-10-2020	0.97417%	5.48000%	100.00000%	Act/360	2020-21	1.030432%	100%	0	0	
JPY Equ. 350Million B	12-10-2020	31-03-2021	0.95000%	5.48000%	100.00000%	Act/360	2020-21	1.004866%	100%	0	0	
JPY Equ. 350Million B	01-04-2021	11-04-2021	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-04-2021	10-10-2021	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million B	11-10-2021	31-03-2022	0.95000%	5.48000%	100.00000%	Act/360	2021-22	1.004866%	100%	0	0	
JPY Equ. 350Million B	01-04-2022	10-04-2022	0.95000%	5.48000%	100.00000%	Act/360	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million B	11-04-2022	11-07-2022	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-07-2022	11-10-2022	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-10-2022	11-01-2023	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-01-2023	31-03-2023	0.95000%	5.48000%	100.00000%	Act/365	2022-23	1.004866%	100%	0	0	
JPY Equ. 350Million B	01-04-2023	11-04-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-04-2023	11-07-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-07-2023	11-10-2023	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-10-2023	11-01-2024	0.95000%	5.48000%	100.00000%	Act/365	2023-24	1.004866%	100%	0	0	
JPY Equ. 350Million B	12-01-2024	31-03-2024	0.96342%	5.48000%	100.00000%	Act/365	2023-24	1.019061%	100%	1	0.0102185	1.02190%
JPY Equ. 350Million B Weighted Average rate												
JPY Equ. 300Million A	01-04-2019	09-04-2019	1.02000%	5.48000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million A	10-04-2019	09-07-2019	1.02000%	5.48000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million A	10-07-2019	09-01-2020	1.02000%	5.48000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million A	10-01-2020	29-02-2020	1.03467%	5.48000%	100.00000%	Act/360	2019-20	1.094426%	100%	0	0	

## Interest Rate Flow

From 31-03-2024  
To 31-03-2024

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
JPY Equ. 300Million A	01-03-2020	31-03-2020	1.03467%	5.46000%	100.00000%	Act/360	2019-20	1.094426%	100%	0	0	
JPY Equ. 300Million A	01-04-2020	12-07-2020	1.03467%	5.46000%	100.00000%	Act/360	2020-21	1.094426%	100%	0	0	
JPY Equ. 300Million A	13-07-2020	12-01-2021	1.02000%	5.46000%	100.00000%	Act/360	2020-21	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-01-2021	31-03-2021	1.02000%	5.46000%	100.00000%	Act/360	2020-21	1.078908%	100%	0	0	
JPY Equ. 300Million A	01-04-2021	12-07-2021	1.02000%	5.46000%	100.00000%	Act/360	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-07-2021	12-01-2022	1.02000%	5.46000%	100.00000%	Act/360	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-01-2022	31-03-2022	1.02000%	5.46000%	100.00000%	Act/365	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million A	01-04-2022	12-04-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-04-2022	12-07-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-07-2022	12-10-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-10-2022	12-01-2023	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-01-2023	31-03-2023	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million A	01-04-2023	12-04-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-04-2023	12-07-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-07-2023	12-10-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million A	13-10-2023	14-01-2024	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million A	15-01-2024	31-03-2024	1.03665%	5.46000%	100.00000%	Act/365	2023-24	1.096520%	100%	1	0.0109952	
JPY Equ. 300Million A Weighted Average rate												1.09950%
JPY Equ. 300Million B	01-04-2019	09-04-2019	1.02000%	5.46000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million B	10-04-2019	09-07-2019	1.02000%	5.46000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million B	10-07-2019	09-01-2020	1.02000%	5.46000%	100.00000%	Act/360	2019-20	1.078908%	100%	0	0	
JPY Equ. 300Million B	10-01-2020	29-03-2020	1.03467%	5.46000%	100.00000%	Act/360	2019-20	1.094426%	100%	0	0	
JPY Equ. 300Million B	01-03-2020	31-03-2020	1.03467%	5.46000%	100.00000%	Act/360	2019-20	1.094426%	100%	0	0	
JPY Equ. 300Million B	01-04-2020	12-07-2020	1.03467%	5.46000%	100.00000%	Act/360	2020-21	1.094426%	100%	0	0	
JPY Equ. 300Million B	13-07-2020	12-01-2021	1.02000%	5.46000%	100.00000%	Act/360	2020-21	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-01-2021	31-03-2021	1.02000%	5.46000%	100.00000%	Act/360	2020-21	1.078908%	100%	0	0	
JPY Equ. 300Million B	01-04-2021	12-07-2021	1.02000%	5.46000%	100.00000%	Act/360	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-07-2021	12-01-2022	1.02000%	5.46000%	100.00000%	Act/360	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-01-2022	31-03-2022	1.02000%	5.46000%	100.00000%	Act/365	2021-22	1.078908%	100%	0	0	
JPY Equ. 300Million B	01-04-2022	12-04-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-04-2022	12-07-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-07-2022	12-10-2022	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-10-2022	12-01-2023	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-01-2023	31-03-2023	1.02000%	5.46000%	100.00000%	Act/365	2022-23	1.078908%	100%	0	0	
JPY Equ. 300Million B	01-04-2023	12-04-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-04-2023	12-07-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-07-2023	12-10-2023	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million B	13-10-2023	14-01-2024	1.02000%	5.46000%	100.00000%	Act/365	2023-24	1.078908%	100%	0	0	
JPY Equ. 300Million B	15-01-2024	31-03-2024	1.03665%	5.46000%	100.00000%	Act/365	2023-24	1.096520%	100%	1	0.0109952	
JPY Equ. 300Million B Weighted Average rate												1.09950%
JPY Equ. 750M Drawl (I to IV)	29-01-2020	29-02-2020	0.80000%	5.46000%	58.73020%	Act/360	2019-20	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-03-2020	31-03-2020	0.80000%	5.46000%	58.73020%	Act/360	2019-20	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2020	29-04-2020	0.80000%	5.46000%	58.73020%	Act/360	2020-21	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-04-2020	29-07-2020	0.80000%	5.46000%	58.73020%	Act/360	2020-21	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-07-2020	29-01-2021	0.80000%	5.46000%	58.73020%	Act/360	2020-21	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-01-2021	31-03-2021	0.80000%	5.46000%	58.73020%	Act/360	2020-21	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2021	29-07-2021	0.80000%	5.46000%	58.73020%	Act/360	2021-22	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-07-2021	31-08-2021	0.80000%	5.46000%	58.73020%	Act/360	2021-22	0.827135%	75%	0	0	

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
JPY Equ. 750M Drawl (I to IV)	01-09-2021	30-01-2022	0.80000%	5.46000%	58.73020%	Act/360	2021-22	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-01-2022	31-03-2022	0.80000%	5.46000%	58.73020%	Act/365	2021-22	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2022	27-04-2022	0.80000%	5.46000%	58.73020%	Act/365	2022-23	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-04-2022	27-07-2022	0.80000%	5.46000%	58.73020%	Act/365	2022-23	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-07-2022	27-10-2022	0.80000%	5.46000%	58.73020%	Act/365	2022-23	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-10-2022	29-01-2023	0.80000%	5.46000%	58.73020%	Act/365	2022-23	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-01-2023	31-03-2023	0.80000%	5.46000%	58.73020%	Act/365	2022-23	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2023	27-04-2023	0.80000%	5.46000%	58.73020%	Act/365	2023-24	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-04-2023	30-07-2023	0.80000%	5.46000%	58.73020%	Act/365	2023-24	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-07-2023	29-10-2023	0.80000%	5.46000%	58.73020%	Act/365	2023-24	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-10-2023	30-01-2024	0.80000%	5.46000%	58.73020%	Act/365	2023-24	0.827135%	75%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-01-2024	31-03-2024	0.83190%	5.46000%	58.73020%	Act/365	2023-24	0.860117%	75%	1	0.0064686	
JPY Equ. 750M Drawl (I to IV)	29-01-2020	29-02-2020	1.02000%	5.46000%	52.38100%	Act/360	2019-20	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-03-2020	31-03-2020	1.02000%	5.46000%	52.38100%	Act/360	2019-20	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2020	28-04-2020	1.02000%	5.46000%	52.38100%	Act/360	2020-21	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-04-2020	29-07-2020	1.02000%	5.46000%	52.38100%	Act/360	2020-21	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-07-2020	28-01-2021	1.02000%	5.46000%	52.38100%	Act/360	2020-21	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-01-2021	31-03-2021	1.02000%	5.46000%	52.38100%	Act/360	2020-21	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2021	28-07-2021	1.02000%	5.46000%	52.38100%	Act/360	2021-22	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	29-07-2021	31-08-2021	1.02000%	5.46000%	52.38100%	Act/360	2021-22	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-09-2021	30-01-2022	1.02000%	5.46000%	52.38100%	Act/360	2021-22	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-01-2022	31-03-2022	1.02000%	5.46000%	52.38100%	Act/365	2021-22	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2022	27-04-2022	1.02000%	5.46000%	52.38100%	Act/365	2022-23	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-04-2022	27-07-2022	1.02000%	5.46000%	52.38100%	Act/365	2022-23	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-07-2022	27-10-2022	1.02000%	5.46000%	52.38100%	Act/365	2022-23	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-10-2022	29-01-2023	1.02000%	5.46000%	52.38100%	Act/365	2022-23	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-01-2023	31-03-2023	1.02000%	5.46000%	52.38100%	Act/365	2022-23	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	01-04-2023	27-04-2023	1.02000%	5.46000%	52.38100%	Act/365	2023-24	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	28-04-2023	30-07-2023	1.02000%	5.46000%	52.38100%	Act/365	2023-24	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-07-2023	29-10-2023	1.02000%	5.46000%	52.38100%	Act/365	2023-24	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	30-10-2023	30-01-2024	1.02000%	5.46000%	52.38100%	Act/365	2023-24	1.050857%	25%	0	0	
JPY Equ. 750M Drawl (I to IV)	31-01-2024	31-03-2024	1.05190%	5.46000%	52.38100%	Act/365	2023-24	1.083722%	25%	1	0.0027167	
JPY Equ. 750M Drawl (I to IV) Weighted Average rate												0.91850%
JPY Equ. 750M Drawl (V-VI)	27-11-2020	25-02-2021	0.80000%	5.46000%	0.00000%	Act/360	2020-21	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	26-02-2021	31-03-2021	0.80000%	5.46000%	0.00000%	Act/360	2020-21	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2021	28-07-2021	0.80000%	5.46000%	0.00000%	Act/360	2021-22	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	29-07-2021	31-08-2021	0.80000%	5.46000%	0.00000%	Act/360	2021-22	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-09-2021	30-01-2022	0.80000%	5.46000%	0.00000%	Act/360	2021-22	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-01-2022	31-03-2022	0.80000%	5.46000%	0.00000%	Act/365	2021-22	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2022	27-04-2022	0.80000%	5.46000%	0.00000%	Act/365	2022-23	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-04-2022	27-07-2022	0.80000%	5.46000%	0.00000%	Act/365	2022-23	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-07-2022	27-10-2022	0.80000%	5.46000%	0.00000%	Act/365	2022-23	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-10-2022	29-01-2023	0.80000%	5.46000%	0.00000%	Act/365	2022-23	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	30-01-2023	31-03-2023	0.80000%	5.46000%	0.00000%	Act/365	2022-23	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2023	27-04-2023	0.80000%	5.46000%	0.00000%	Act/365	2023-24	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-04-2023	30-07-2023	0.80000%	5.46000%	0.00000%	Act/365	2023-24	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-07-2023	29-10-2023	0.80000%	5.46000%	0.00000%	Act/365	2023-24	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	30-10-2023	30-01-2024	0.80000%	5.46000%	0.00000%	Act/365	2023-24	0.800000%	75%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-01-2024	31-03-2024	0.83190%	5.46000%	0.00000%	Act/365	2023-24	0.831900%	75%	1	0.0062563	

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
JPY Equ. 750M Drawl (V-VI)	27-11-2020	25-02-2021	1.02000%	5.46000%	0.00000%	Act/360	2020-21	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	26-02-2021	31-03-2021	1.02000%	5.46000%	0.00000%	Act/360	2020-21	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2021	28-07-2021	1.02000%	5.46000%	0.00000%	Act/360	2021-22	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	29-07-2021	31-08-2021	1.02000%	5.46000%	0.00000%	Act/360	2021-22	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-09-2021	30-01-2022	1.02000%	5.46000%	0.00000%	Act/360	2021-22	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-01-2022	31-03-2022	1.02000%	5.46000%	0.00000%	Act/365	2021-22	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2022	27-04-2022	1.02000%	5.46000%	0.00000%	Act/365	2022-23	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-04-2022	27-07-2022	1.02000%	5.46000%	0.00000%	Act/365	2022-23	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-07-2022	27-10-2022	1.02000%	5.46000%	0.00000%	Act/365	2022-23	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-10-2022	29-01-2023	1.02000%	5.46000%	0.00000%	Act/365	2022-23	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	30-01-2023	31-03-2023	1.02000%	5.46000%	0.00000%	Act/365	2022-23	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	01-04-2023	27-04-2023	1.02000%	5.46000%	0.00000%	Act/365	2023-24	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	28-04-2023	30-07-2023	1.02000%	5.46000%	0.00000%	Act/365	2023-24	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-07-2023	29-10-2023	1.02000%	5.46000%	0.00000%	Act/365	2023-24	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	30-10-2023	30-01-2024	1.02000%	5.46000%	0.00000%	Act/365	2023-24	1.020000%	25%	0	0	
JPY Equ. 750M Drawl (V-VI)	31-01-2024	31-03-2024	1.05190%	5.46000%	0.00000%	Act/365	2023-24	1.051900%	25%	1	0.002637	
JPY Equ. 750M Drawl (V-VI) Weighted Average rate												0.88930%
Euro Loan I Drawl I	07-06-2021	05-12-2021	0.95000%	1.77703%		Act/360	2021-22	0.966882%	100%	0	0	
Euro Loan I Drawl I	06-12-2021	31-03-2022	0.95000%	1.77703%		Act/360	2021-22	0.966882%	100%	0	0	
Euro Loan I Drawl I	01-04-2022	05-06-2022	0.95000%	1.77703%		Act/360	2022-23	0.966882%	100%	0	0	
Euro Loan I Drawl I	06-06-2022	05-12-2022	0.95000%	1.77703%		Act/360	2022-23	0.966882%	100%	0	0	
Euro Loan I Drawl I	06-12-2022	31-03-2023	3.35600%	1.77703%		Act/360	2022-23	3.415637%	100%	0	0	
Euro Loan I Drawl I	01-04-2023	05-06-2023	3.35600%	1.77703%		Act/360	2023-24	3.415637%	100%	0	0	
Euro Loan I Drawl I	06-06-2023	05-12-2023	4.67800%	1.77703%		Act/360	2023-24	4.761129%	100%	0	0	
Euro Loan I Drawl I	06-12-2023	31-03-2024	4.89500%	1.77703%		Act/360	2023-24	4.981985%	100%	1	0.0506502	
Euro Loan I Drawl I Weighted Average rate												5.06500%
Euro Loan I Drawl II	11-08-2021	31-08-2021	0.95000%	1.743516%		Act/360	2021-22	0.966563%	100%	0	0	
Euro Loan I Drawl II	01-09-2021	05-12-2021	0.95000%	1.743516%		Act/360	2021-22	0.966563%	100%	0	0	
Euro Loan I Drawl II	06-12-2021	31-03-2022	0.95000%	1.743516%		Act/360	2021-22	0.966563%	100%	0	0	
Euro Loan I Drawl II	01-04-2022	05-06-2022	0.95000%	1.743516%		Act/360	2022-23	0.966563%	100%	0	0	
Euro Loan I Drawl II	06-06-2022	05-12-2022	0.95000%	1.743516%		Act/360	2022-23	0.966563%	100%	0	0	
Euro Loan I Drawl II	06-12-2022	31-03-2023	3.35600%	1.743516%		Act/360	2022-23	3.414512%	100%	0	0	
Euro Loan I Drawl II	01-04-2023	05-06-2023	3.35600%	1.743516%		Act/360	2023-24	3.414512%	100%	0	0	
Euro Loan I Drawl II	06-06-2023	05-12-2023	4.67800%	1.743516%		Act/360	2023-24	4.759562%	100%	0	0	
Euro Loan I Drawl II	06-12-2023	31-03-2024	4.89500%	1.743516%		Act/360	2023-24	4.980345%	100%	1	0.0506335	
Euro Loan I Drawl II Weighted Average rate												5.06340%
Euro Loan I Drawl III	21-09-2021	05-12-2021	0.95000%	1.743516%		Act/360	2021-22	0.966563%	100%	0	0	
Euro Loan I Drawl III	06-12-2021	31-03-2022	0.95000%	1.743516%		Act/360	2021-22	0.966563%	100%	0	0	
Euro Loan I Drawl III	01-04-2022	05-06-2022	0.95000%	1.743516%		Act/360	2022-23	0.966563%	100%	0	0	
Euro Loan I Drawl III	06-06-2022	05-12-2022	0.95000%	1.743516%		Act/360	2022-23	0.966563%	100%	0	0	
Euro Loan I Drawl III	06-12-2022	31-03-2023	3.35600%	1.743516%		Act/360	2022-23	3.414512%	100%	0	0	
Euro Loan I Drawl III	01-04-2023	05-06-2023	3.35600%	1.743516%		Act/360	2023-24	3.414512%	100%	0	0	
Euro Loan I Drawl III	06-06-2023	05-12-2023	4.67800%	1.743516%		Act/360	2023-24	4.759562%	100%	0	0	
Euro Loan I Drawl III	06-12-2023	31-03-2024	4.89500%	1.743516%		Act/360	2023-24	4.980345%	100%	1	0.0506335	
Euro Loan I Drawl III Weighted Average rate												5.06340%

## Interest Rate Flow

From 31-03-2024  
To 31-03-2024

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
USD 750 Million Drawl I	25-04-2022	24-07-2022	2.12913%	0		Act/360	2022-23	2.129130%	87%	0	0	
USD 750 Million Drawl I	25-07-2022	24-10-2022	3.72092%	0		Act/360	2022-23	3.720920%	87%	0	0	
USD 750 Million Drawl I	25-10-2022	31-03-2023	5.87398%	0		Act/360	2022-23	5.873980%	87%	0	0	
USD 750 Million Drawl I	01-04-2023	24-04-2023	5.87398%	0		Act/360	2023-24	5.873980%	87%	0	0	
USD 750 Million Drawl I	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl I	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl I	25-04-2022	24-07-2022	2.04913%	5.46000%	100.00000%	Act/360	2022-23	2.167474%	13%	0	0	
USD 750 Million Drawl I	25-07-2022	24-10-2022	3.64092%	5.46000%	100.00000%	Act/360	2022-23	3.851195%	13%	0	0	
USD 750 Million Drawl I	25-10-2022	31-03-2023	5.59398%	5.46000%	100.00000%	Act/360	2022-23	5.917030%	13%	0	0	
USD 750 Million Drawl I	01-04-2023	24-04-2023	5.59398%	5.46000%	100.00000%	Act/360	2023-24	5.917030%	13%	0	0	
USD 750 Million Drawl I	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl I	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl I Weighted Average rate												6.76980%
USD 750 Million Drawl II	29-07-2022	24-10-2022	3.75674%	0		Act/360	2022-23	3.756740%	87%	0	0	
USD 750 Million Drawl II	25-10-2022	31-03-2023	5.87398%	0		Act/360	2022-23	5.873980%	87%	0	0	
USD 750 Million Drawl II	01-04-2023	24-04-2023	5.87398%	0		Act/360	2023-24	5.873980%	87%	0	0	
USD 750 Million Drawl II	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl II	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl II	29-07-2022	24-10-2022	3.67674%	5.46000%	100.00000%	Act/360	2022-23	3.889084%	13%	0	0	
USD 750 Million Drawl II	25-10-2022	31-03-2023	5.59398%	5.46000%	100.00000%	Act/360	2022-23	5.917030%	13%	0	0	
USD 750 Million Drawl II	01-04-2023	24-04-2023	5.59398%	5.46000%	100.00000%	Act/360	2023-24	5.917030%	13%	0	0	
USD 750 Million Drawl II	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl II	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl II Weighted Average rate												6.76980%
USD 750 Million Drawl III	28-09-2022	24-10-2022	4.41820%	0		Act/360	2022-23	4.418200%	87%	0	0	
USD 750 Million Drawl III	25-10-2022	31-03-2023	5.87398%	0		Act/360	2022-23	5.873980%	87%	0	0	
USD 750 Million Drawl III	01-04-2023	24-04-2023	5.87398%	0		Act/360	2023-24	5.873980%	87%	0	0	
USD 750 Million Drawl III	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl III	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl III	28-09-2022	24-10-2022	4.06820%	5.46000%	100.00000%	Act/360	2022-23	4.303152%	13%	0	0	
USD 750 Million Drawl III	25-10-2022	31-03-2023	5.59398%	5.46000%	100.00000%	Act/360	2022-23	5.917030%	13%	0	0	
USD 750 Million Drawl III	01-04-2023	24-04-2023	5.59398%	5.46000%	100.00000%	Act/360	2023-24	5.917030%	13%	0	0	
USD 750 Million Drawl III	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl III	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl III Weighted Average rate												6.76980%
USD 750 Million Drawl IV	09-11-2022	31-03-2023	5.71764%	0		Act/360	2022-23	5.717640%	87%	0	0	
USD 750 Million Drawl IV	01-04-2023	24-04-2023	5.71764%	0		Act/360	2023-24	5.717640%	87%	0	0	
USD 750 Million Drawl IV	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl IV	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl IV	09-11-2022	31-03-2023	5.63764%	5.46000%	100.00000%	Act/360	2022-23	5.963232%	13%	0	0	
USD 750 Million Drawl IV	01-04-2023	24-04-2023	5.63764%	5.46000%	100.00000%	Act/360	2023-24	5.963232%	13%	0	0	
USD 750 Million Drawl IV	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl IV	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl IV Weighted Average rate												6.76980%
USD 750 Million Drawl V	23-12-2022	31-03-2023	5.71764%	0		Act/360	2022-23	5.717640%	87%	0	0	

## Interest Rate Flow

From 31-03-2024  
To 31-03-2024

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
USD 750 Million Drawl V	01-04-2023	24-04-2023	5.71764%	0		Act/360	2023-24	5.717640%	87%	0	0	
USD 750 Million Drawl V	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl V	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl V	23-12-2022	31-03-2023	5.83764%	5.46000%	100.00000%	Act/360	2022-23	5.963232%	13%	0	0	
USD 750 Million Drawl V	01-04-2023	24-04-2023	5.83764%	5.46000%	100.00000%	Act/360	2023-24	5.963232%	13%	0	0	
USD 750 Million Drawl V	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl V	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl V Weighted Average rate												6.76980%
USD 750 Million Drawl VI	08-02-2023	31-03-2023	5.71764%	0		Act/360	2022-23	5.717640%	87%	0	0	
USD 750 Million Drawl VI	01-04-2023	24-04-2023	5.71764%	0		Act/360	2023-24	5.717640%	87%	0	0	
USD 750 Million Drawl VI	25-04-2023	24-10-2023	6.26834%	0		Act/360	2023-24	6.268340%	87%	0	0	
USD 750 Million Drawl VI	25-10-2023	31-03-2024	6.61909%	0		Act/360	2023-24	6.619090%	87%	1	0.0583216	
USD 750 Million Drawl VI	08-02-2023	31-03-2023	5.83764%	5.46000%	100.00000%	Act/360	2022-23	5.963232%	13%	0	0	
USD 750 Million Drawl VI	01-04-2023	24-04-2023	5.83764%	5.46000%	100.00000%	Act/360	2023-24	5.963232%	13%	0	0	
USD 750 Million Drawl VI	25-04-2023	24-10-2023	6.26834%	5.46000%	100.00000%	Act/360	2023-24	6.630358%	13%	0	0	
USD 750 Million Drawl VI	25-10-2023	31-03-2024	6.53909%	5.46000%	100.00000%	Act/360	2023-24	6.916744%	13%	1	0.0093761	
USD 750 Million Drawl VI Weighted Average rate												6.76980%
JPY Equ. \$400 Million Drawl I	15-05-2023	14-11-2023	1.20000%	0		Act/365	2023-24	1.200000%	100%	0	0	
JPY Equ. \$400 Million Drawl I	15-11-2023	31-03-2024	1.21218%	0		Act/365	2023-24	1.212180%	100%	1	0.012155	
JPY Equ. \$400 Million Drawl I Weighted Average rate												1.21550%
JPY Equ. \$400 Million Drawl II	24-07-2023	14-11-2023	1.20000%	0		Act/365	2023-24	1.200000%	100%	0	0	
JPY Equ. \$400 Million Drawl II	15-11-2023	31-03-2024	1.21218%	0		Act/365	2023-24	1.212180%	100%	1	0.012155	
JPY Equ. \$400 Million Drawl II Weighted Average rate												1.21550%
JPY Equ. \$400 Million Drawl III	25-09-2023	14-11-2023	1.20000%	0		Act/365	2023-24	1.200000%	100%	0	0	
JPY Equ. \$400 Million Drawl III	15-11-2023	31-03-2024	1.21218%	0		Act/365	2023-24	1.212180%	100%	1	0.012155	
JPY Equ. \$400 Million Drawl III Weighted Average rate												1.21550%
JPY Equ. \$400 Million Drawl IV	22-12-2023	31-03-2024	1.21886%	0		Act/365	2023-24	1.218860%	100%	1	0.012222	
JPY Equ. \$400 Million Drawl IV Weighted Average rate												1.22220%
JBIC Green I Drawl I	25-02-2021	16-03-2021	0.92000%	0.00000%		Act/360	2020-21	0.920000%	100%	0	0	
JBIC Green I Drawl I	17-03-2021	31-03-2021	0.92000%	0.00000%		Act/360	2020-21	0.920000%	100%	0	0	
JBIC Green I Drawl I	01-04-2021	16-09-2021	0.92000%	0.00000%		Act/360	2021-22	0.920000%	100%	0	0	
JBIC Green I Drawl I	17-09-2021	16-03-2022	0.92000%	0.00000%		Act/360	2021-22	0.920000%	100%	0	0	
JBIC Green I Drawl I	17-03-2022	31-03-2022	0.96017%	0.00000%		Act/360	2021-22	0.960170%	100%	0	0	
JBIC Green I Drawl I	01-04-2022	19-09-2022	0.96017%	0.00000%		Act/360	2022-23	0.960170%	100%	0	0	
JBIC Green I Drawl I	20-09-2022	16-03-2023	0.93264%	0.00000%		Act/360	2022-23	0.932640%	100%	0	0	
JBIC Green I Drawl I	17-03-2023	31-03-2023	0.93557%	0.00000%		Act/360	2022-23	0.935570%	100%	0	0	
JBIC Green I Drawl I	01-04-2023	16-09-2023	0.93557%	0.00000%		Act/360	2023-24	0.935570%	100%	0	0	
JBIC Green I Drawl I	19-09-2023	17-03-2024	0.95966%	0.00000%		Act/360	2023-24	0.959660%	100%	0	0	
JBIC Green I Drawl I	18-03-2024	31-03-2024	1.07223%	0.00000%		Act/360	2023-24	1.072230%	100%	1	0.010901	
JBIC Green I Drawl I Weighted Average rate												1.09010%
JBIC Green I Drawl II	27-09-2021	16-03-2022	0.92000%	0.00000%		Act/360	2021-22	0.920000%	100%	0	0	
JBIC Green I Drawl II	17-03-2022	31-03-2022	0.96017%	0.00000%		Act/360	2021-22	0.960170%	100%	0	0	
JBIC Green I Drawl II	01-04-2022	19-09-2022	0.96017%	0.00000%		Act/360	2022-23	0.960170%	100%	0	0	

## Interest Rate Flow

From 31-03-2024  
To 31-03-2024

Name of the Loan	From	To	Floating Rate of interest	Withholding Tax (WHT)	Applicability of Withholding Tax	Interest Basis	Financial year	Interest rate (incl WHT)	Loan Proportion	No of days	Product	WAVG rate
J91C Green I Drawl II	20-09-2022	16-03-2023	0.93264%	0.00000%		Act/360	2022-23	0.932640%	100%	0	0	
J91C Green I Drawl II	17-03-2023	31-03-2023	0.93557%	0.00000%		Act/360	2022-23	0.935570%	100%	0	0	
J91C Green I Drawl II	01-04-2023	18-09-2023	0.93557%	0.00000%		Act/360	2023-24	0.935570%	100%	0	0	
J91C Green I Drawl II	19-09-2023	17-03-2024	0.95966%	0.00000%		Act/360	2023-24	0.959660%	100%	0	0	
J91C Green I Drawl II	18-03-2024	31-03-2024	1.07223%	0.00000%		Act/360	2023-24	1.072230%	100%	1	0.010901	
J91C Green I Drawl II Weighted Average rate												1.09010%
J91C Green I Drawl III	11-01-2022	16-03-2022	0.92000%	0.00000%		Act/360	2021-22	0.920000%	100%	0	0	
J91C Green I Drawl III	17-03-2022	31-03-2022	0.96017%	0.00000%		Act/360	2021-22	0.960170%	100%	0	0	
J91C Green I Drawl III	01-04-2022	19-09-2022	0.96017%	0.00000%		Act/360	2022-23	0.960170%	100%	0	0	
J91C Green I Drawl III	20-09-2022	16-03-2023	0.93264%	0.00000%		Act/360	2022-23	0.932640%	100%	0	0	
J91C Green I Drawl III	17-03-2023	31-03-2023	0.93557%	0.00000%		Act/360	2022-23	0.935570%	100%	0	0	
J91C Green I Drawl III	01-04-2023	18-09-2023	0.93557%	0.00000%		Act/360	2023-24	0.935570%	100%	0	0	
J91C Green I Drawl III	19-09-2023	17-03-2024	0.95966%	0.00000%		Act/360	2023-24	0.959660%	100%	0	0	
J91C Green I Drawl III	18-03-2024	31-03-2024	1.07223%	0.00000%		Act/360	2023-24	1.072230%	100%	1	0.010901	
J91C Green I Drawl III Weighted Average rate												1.09010%
J91C Green I Drawl IV	28-04-2022	19-09-2022	0.95702%	0.00000%		Act/360	2022-23	0.957020%	100%	0	0	
J91C Green I Drawl IV	20-09-2022	16-03-2023	0.93264%	0.00000%		Act/360	2022-23	0.932640%	100%	0	0	
J91C Green I Drawl IV	17-03-2023	31-03-2023	0.93557%	0.00000%		Act/360	2022-23	0.935570%	100%	0	0	
J91C Green I Drawl IV	01-04-2023	18-09-2023	0.93557%	0.00000%		Act/360	2023-24	0.935570%	100%	0	0	
J91C Green I Drawl IV	19-09-2023	17-03-2024	0.95966%	0.00000%		Act/360	2023-24	0.959660%	100%	0	0	
J91C Green I Drawl IV	18-03-2024	31-03-2024	1.07223%	0.00000%		Act/360	2023-24	1.072230%	100%	1	0.010901	
J91C Green I Drawl IV Weighted Average rate												1.09010%

# Refinancing of Loans during 2019-24

NTPC LTD  
Khargone

Sr. No.	Bank	ROI on prepayment date	Date of Prepayment	Replaced with Bank	ROI of replaced Loan	Prepayment Amount	Benefit(%)	Benefit(%) retained with NTPC
Prepayment of Loans in 2020-21								
1	Syndicate Bank-III	7.20%	24-Aug-20	HDFC Bank-IX	6.30%	1200000000	0.90%	0.45%

Part-I  
Form-15

Detail of Source wise Fuel for Computation of Energy Charges

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Apr-23					May-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
A)	OPENING QUANTITY											
1	Opening Quantity of Coal/Lignite	(MT)	20862.8816	40591.31283	80765.52908	132699.419	0	17077.76704	9045.50288	77309.5066	123328.1546	0
2	Value of Stock	(Rs.)	104098073.5	209334317.1	407610035.9	1917852975	0	78960172.97	46692290.24	374788391.2	1754333421	0
B)	QUANTITY											
3	Quantity of Coal supplied by Coal Company	(MT)	214195.57	0	47821.56	65122.2	3146.36	243175.86	101888.98	55490.14	0	3257.26
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	0	0	0	0	0	-2042.93	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	214195.57	0	47821.56	65122.2	3146.36	243175.86	99846.05	55490.14	0	3257.26
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1713.56	0.00	382.57	130.24	0.00	1945.41	815.11	443.92	0.00	0.00
7	Net Coal Supplied (3-6)	(MT)	212482.01	0.00	47438.99	64991.96	3146.36	241230.45	99030.94	55046.22	0.00	3257.26
C)	PRICE											
8	Amount charged by the Coal Company	(Rs.)	507530343.3	0	120419246.4	926971059.2	25623333.86	586396894	242667067.9	130156869.3	0	24455521.07
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	-32679584.83	0	0	0	0	0	0
10	Handling, Sampling and such other similar charges	(Rs.)	41814517.03	0	5268654.03	0	0	45050636.51	18875901.13	10280075.4	0	-50282
11	Total amount Charged (8+9+10)	(Rs.)	549544860.3	0	125687900.5	894291474.4	25623333.86	631447530.5	261542969	140436944.9	0	24425239.07
D)	TRANSPORTATION											
12	Transportation charges by rail/ship/road transport	(Rs.)	425965152	0	88341101.24	0	4590062.93	473280396.9	274287506	102633870.2	0	3744063.3
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)	523907.73		116968.27							
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0	0	0	0	0					
16	Total Transportation Charges (12+13+14+15)	(Rs.)	425441244.3	0	88224132.97	0	4590062.93	473280396.9	274287506	102633870.2	0	3744063.3
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	974786104.8	0	213912033.4	894291474.4	28213396.79	1104727927	535830475	243070815	0	28169302.37
E)	TOTAL COST											
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	4,623.56	5,162.05	4,847.80	14,224.92	8,967.00	4,582.46	5,389.92	4,668.17	14,224.92	3,648.16
19	Bleeding Ratio		57.49%	8.39%	13.33%	19.77%	0.84%	59.08%	21.82%	1.42%	16.30%	0.88%
20	Weighted average cost of coal/ Lignite	Rs./MT			6633.19					6415.50		
F)	QUALITY											
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	3914	4751	4845		0	4058	4751	4895		0
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4072	0	4979		3864	3995	4925	5286		3884
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				5189					5108	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4942					0	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)			4431					4395		
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3315	3671	3839		0	3443	3671	3770		0
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3456	0	3654		3864	3450	3455	4081		3884
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5189					5108	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4942					0	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)			3840					3744		

Part-I  
Form-15

Details of Source wise Fuel for Computation of Energy Charge:

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Jun-23					Jul-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
A)	OPENING QUANTITY											
1	Opening Quantity of Coal/Lignite	(MT)	45411.85016	29469.25104	127243.7253	62798.45464	79.46	67867.99568	1969.25104	131621.2068	92907.00704	0
2	Value of Stock	(Rs.)	208098149.1	158837034.3	593995514.3	893303139.6	687182.7138	348236517.7	10614114.17	610950386.9	1325294041	0
B)	QUANTITY											
3	Quantity of Coal supplied by Coal Company	(MT)	131644.31	0	31888.59	65223.8	1758.34	146482.49	0	31242.59	19342.2	202.34
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	0	0	0	0	0	0	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	131644.31	0	31888.59	65223.8	1758.34	146482.49	0	31242.59	19342.2	202.34
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1053.15	0.00	255.11	130.45	0.00	1171.86	0.00	249.94	38.68	0.00
7	Net Coal Supplied (5-6)	(MT)	130591.16	0.00	31633.48	65093.35	1758.34	145310.63	0.00	30992.65	19303.52	202.34
C)	PRICE											
8	Amount charged by the Coal Company	(Rs.)	391385107.5	0	68790585.07	931039880	13201623.74	391442421.5	0	70489121	276421183	1259901.47
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	0	0	0	0	0	-53575000	0
10	Handling, Sampling and such other similar charges	(Rs.)	69769599.3	0	16900496.1	0	0	4145107.1	0	884091.21	0	0
11	Total amount charged (8+9+10)	(Rs.)	461154706.8	0	85691081.17	931039880	13201623.74	395587528.6	0	71373212.21	222846183	1259901.47
D)	TRANSPORTATION											
12	Transportation charges by rail/ship/road transport	(Rs.)	234098633	0	57884398.81	0	1785456.46	294975426.8	0	58549128	0	129634.03
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)	264827.07		105555.9325							
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0	0	0	0	0					
16	Total Transportation Charges (12+13+14+15)	(Rs.)	233833805.9	0	57778842.88	0	1785456.46	294975426.8	0	58549128	0	129634.03
17	Total amount charged for Coal supplied including Transportation (11+16)	(Rs.)	694988512.68	0.00	143469924.05	931039880.00	14987080.20	690562955.4	0	129922340.2	222846183	1389535.5
E)	TOTAL COST											
18	Landed cost of coal/ Lignite (2+17)/(1-7)	Rs./MT	5,131.09	5,389.92	4,641.73	14,264.74	8,528.82	4,872.91	5,389.92	4,556.02	13,796.75	6,867.33
19	Blending Ratio		54.15%	13.77%	13.65%	17.12%	0.92%	63.369%	0.000%	21.641%	14.894%	0.097%
20	Weighted average cost of coal/ Lignite	Rs./MT	6731.20					6135.36				
F)	QUALITY											
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	3999	4910	5058		3884	4259	4910	4994		0
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4350	0	4739		3820	4015	0	4843		3754
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				5108					5027	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4949					5001	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	4578					4419				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3450	3473	3899		3884	3685	3473	3849		3823
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3767	0	3647		3820	3284	0	3870		3754
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5108					5027	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4949					5001	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)	3915					3748				

Part-I  
Form-15

Details of Source wise Fuel for Computation of Energy Charge:

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Aug-23					Sep-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
A)	OPENING QUANTITY											
1	Opening Quantity of Coal/Lignite	(MT)	80783.46576	1969.25104	117399.856	81093.12264	0	6589.5076	2227.37136	57706.1408	10559.72264	600.07
2	Value of Stock	(Rs.)	393650303.5	10614114.17	534876631.2	1118821321	0	32419476.32	13448608.92	264627952.7	145689824.9	5268397.803
B)	QUANTITY											
3	Quantity of Coal supplied by Coal Company	(MT)	190697.27	7684.98	42863.18	0	1514.03	215101.5	113719.66	69413.97	7972.6	1882.98
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	-240.16	0	0	0	0	-3046.59	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	190697.27	7444.8	42863.18	0	1514.03	215101.5	108673.07	69413.97	7972.6	1882.98
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1525.38	61.48	342.91	0.00	0.00	1720.81	909.76	255.31	15.95	0.00
7	Net Coal Supplied (5-6)	(MT)	189171.69	7383.32	42520.27	0.00	1514.03	213380.69	107763.31	68858.66	7956.65	1882.98
C)	PRICE											
8	Amount charged by the Coal Company	(Rs.)	467315836.9	40809574.05	99527567.58	0	11367543.31	611772731.3	285030909.9	135664429.1	95889670.99	14137421.35
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	0	0	0	-12650291.53	0	-24005340.98	0
10	Handling, Sampling and such other similar charges	(Rs.)	78576532.92	3166576.598	17661711.02	0	0	101603304	60728347.75	32781724.37	0	0
11	Total amount Charged (8+9+10)	(Rs.)	545892369.8	43976150.65	117189278.6	0	11367543.31	713376035.4	335108966.1	188452153.4	71884330.01	14137421.35
D)	TRANSPORTATION											
12	Transportation charges by rail/ship/road transport	(Rs.)	388603670.4	1874402	81293422.8	0	1925797.71	391232269.6	299800553	127796477.8	0	1817445.59
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)						903565				
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)										
16	Total Transportation Charges (12+13+14+15)	(Rs.)	388603670.4	1874402	81293422.8	0	1925797.71	390328684.6	299800553	127796477.8	0	1817445.59
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	934496040.2	45850552.65	198482701.4	0	13293141.02	1105704720	632909519.1	316248631.3	71884330.01	15954866.94
E)	TOTAL COST											
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	4,919.33	6,037.34	4,585.78	15,796.75	8,779.97	5,164.90	5,876.47	4,589.56	11,750.36	8,547.34
19	Blending Ratio		59.296%	1.604%	23.013%	15.830%	0.206%	41.039%	26.408%	27.296%	4.528%	0.459%
20	Weighted average cost of coal/ Lignite	Rs./MT			6278.55					5509.47		
F)	QUALITY											
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4093	4910	4966		0	4055	4751	4715		3814
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4122	4936	4907		3807	4281	4751	4596		3793
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				5022					5045	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				0					4900	
25	Weighted average GCV of coal/ Lignite as Billed				4482					4535		
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3412	3473	3853		0	3436	3371	3828		3814
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3407	3345	3870		3807	3578	3587	3624		3793
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5022					5045	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				0					4900	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)			3769					3681		

Part-I  
Form-15

Details of Source wise Fuel for Computation of Energy Charge:

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Oct-23					Nov-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
A) OPENING QUANTITY												
1	Opening Quantity of Coal/Lignite	(MT)	50634.9956	1736.88408	14671.80884	0	650.07	29172.60848	2167.214	35424.20588	13504.6752	30.09
2	Value of Stock	(Rs.)	261524652.5	10206747.15	67337129.1	0	5556367.26	141673437.3	10601360.4	153105096.3	163110384.6	259256.314
B) QUANTITY												
3	Quantity of Coal supplied by Coal Company	(MT)	410114.64	8022.51	51307.87	63612.4	2536.36	449857	0	23573.84	31777.2	1701.43
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	0	0	0	0	0	0	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	410114.64	8022.51	51307.87	63612.4	2536.36	449857	0	23573.84	31777.2	1701.43
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	3280.92	64.18	410.46	127.22	0.00	3598.86	0.00	188.59	63.55	0.00
7	Net Coal Supplied (5-6)	(MT)	406833.72	7958.33	50897.41	63485.18	2536.36	446258.14	0.00	23385.25	31713.65	1701.43
C) PRICE												
8	Amount charged by the Coal Company	(Rs.)	1207727433	16965201.9	117475919.1	785519191.2	19043001.01	1271911019	24461505.1	53508405.27	404521295.3	12774343.24
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	-18540932	0	0	0	0	-33365965.91	0
10	Handling, Sampling and such other similar charges	(Rs.)	48599491.5	950635.18	6080096.02	0	0	82900168.67	0	4344203.63	0	0
11	Total amount Charged (8+9+10)	(Rs.)	1256326924	17915887.08	123556015.1	766778259.2	19043001.01	1354811188	24461505.1	57852408.9	371155329.4	12774343.24
D) TRANSPORTATION												
12	Transportation charges by rail/ship/road transport	(Rs.)	703792945	19303442.66	92496411.69	0	2855005.16	862026117.1	-19303442.66	44800739.68	0	1914599.32
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)										
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)										
16	Total Transportation Charges (12+13+14+15)	(Rs.)	703792945	19303442.66	92496411.69	0	2855005.16	862026117.1	-19303442.66	44800739.68	0	1914599.32
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	1960119869	37219329.74	216052426.8	766778259.2	21898006.17	2216837305	5158062.44	102653348.6	371155329.4	14688942.56
E) TOTAL COST												
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	4,856.39	4,891.70	4,321.99	12,078.07	8,616.03	4,960.79	1,271.74	4,348.90	11,815.25	8,632.99
19	Blending Ratio		82.506%	1.450%	5.807%	9.628%	0.608%	75.566%	0.000%	13.911%	10.323%	0.399%
20	Weighted average cost of coal/ Lignite	Rs./MT			5544.04					5597.93		
F) QUALITY												
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4274	4751	4650		3798	4278	4751	4597		3846
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4278	4751	4583		3859	4086	0	4522		3851
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				4982					4911	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4911					4981	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)			4582					4251		
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3574	3582	3717		3798	3563	3532	3861		3846
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3562	3521	3900		3859	3553	0	3556		3851
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4982					4911	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4911					4981	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)			3712					3728		

Part-I  
Form-15

Detail of Source wise Fuel for Computation of Energy Charges

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Dec-23					Jan-24				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
A)	OPENING QUANTITY											
1	Opening Quantity of Coal/Lignite	(MT)	154285.4325	2167.214	0	1229.8208	30.04	321850.7041	2623.43512	976.68	11265.6436	50.11
2	Value of Stock	(Rs.)	765377182.60	15759422.84	0.00	14530638.82	259335.09	1683580054	15562862.03	4593146.857	144931042.2	259319.5312
B)	QUANTITY											
3	Quantity of Coal supplied by Coal Company	(MT)	509662.3	7642.36	26477.5	52388.6	1763.71	503488.94	4037.34	15438.01	68651	876.52
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	0	0	0	0	0	0	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	509662.3	7642.36	26477.5	52388.6	1763.71	503488.94	4037.34	15438.01	68651	876.52
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	4077.30	61.14	211.82	104.78	0.00	4027.91	52.30	123.50	137.30	0.00
7	Net Coal Supplied (5-6)	(MT)	505585.00	7581.22	26265.68	52283.82	1763.71	499461.03	4005.24	15314.51	68513.70	876.52
C)	PRICE											
8	Amount charged by the Coal Company	(Rs.)	1627407369	33752579	61916830	674010441.4	13256937.72	1824453249	19326287	34286718.36	899805904.3	6580915.65
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	0	0	0	0	0	0	0
10	Handling, Sampling and such other similar charges	(Rs.)	160304027.6	2403750.657	8327965.185	0	0	77480460.19	621325.3805	2373710.813	0	0
11	Total amount Charged (8+9+10)	(Rs.)	1787711397	38156329.66	70244795.19	674010441.4	13256937.72	1901933709	20147612.38	36662469.17	899805904.3	6580915.65
D)	TRANSPORTATION											
12	Transportation charges by rail/ship/road transport	(Rs.)	898651630.2	3914361	47899314.99	0	1949434.46	803759363.4	1477476	30427934.32	0	802105.96
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)	916245									
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)										
16	Total Transportation Charges (12+13+14+15)	(Rs.)	897734405.2	3914361	47899314.99	0	1949434.46	803759363.4	1477476	30427934.32	0	802105.96
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	2685445802	42070690.66	118144110.2	674010441.4	15206392.18	2707693072	21625088.38	67090403.49	899805904.3	7383021.61
E)	TOTAL COST											
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	5,229.55	5,932.25	4,498.04	12,866.65	8,612.41	5,346.66	5,610.16	4,387.87	13,095.58	8,429.39
19	Bleeding Ratio		81.559%	1.719%	6.102%	10.194%	0.426%	83.05%	1.18%	3.13%	12.45%	0.19%
20	Weighted average cost of coal/ Lignite	Rs./MT			5989.91					6290.36		
F)	QUALITY											
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4096	4751	4569		3851	3968	4751	4425		3827
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	3930	4751	4412		3827	4087	4751	4486		3705
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				4961					4990	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4990					4950	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)			4113					4176		
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3554	3532	3747		3851	3295	3709	3637		3827
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3218	3760	3627		3827	3158	3795	3411		3705
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4961					4990	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4990					4950	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)			3499					3443		

Part-I  
Form-15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company : NTPC Ltd  
Name of the Power Station : Khargone STPS

S. No.	Month	Unit	Feb-24					Mar-24				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
<b>A)</b>	<b>OPENING QUANTITY</b>											
1	Opening Quantity of Coal/Lignite	(MT)	415389.5626	369.6748	996.18592	18922.9416	0	394825.6911	369.6748	996.61536	4147.9936	0
2	Value of Stock	(Rs.)	2220946039	4879017.95	4371130.912	247806942.1	0	3144089826	4879017.95	3955162.029	24022085.93	0
<b>B)</b>	<b>QUANTITY</b>											
3	Quantity of Coal supplied by Coal Company	(MT)	497993.93	0	4017.57	60324	1365.85	316084.26	11930.6	3850.47	24104.8	2333.23
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0	0	0	0	0	0	-136.35	0	0	0
5	Coal supplied by Coal Company (3+4)	(MT)	497993.93	0	4017.57	60324	1365.85	316084.26	11794.25	3850.47	24104.8	2333.23
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	3983.93	0.00	32.14	120.65	0.00	2528.67	94.35	30.80	48.21	0.00
7	Net Coal Supplied (5-6)	(MT)	494009.98	0.00	3985.43	60203.35	1365.85	313555.59	11699.90	3819.67	24056.59	2333.23
<b>C)</b>	<b>PRICE</b>											
8	Amount charged by the Coal Company	(Rs.)	1832842296	0	7820802.64	782707529.3	10254807.25	979248362	49622971.45	10867242	306942130.4	17517900.05
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0	0	0	0	0	0	-343286.57	0	0	0
10	Handling, Sampling and such other similar charges	(Rs.)	169259771.6	0	1365504.55	0	0	212046898.6	8003708.381	2583108.897	0	3257725.19
11	Total amount Charged (8+9+10)	(Rs.)	2002102068	0	9186307.17	782707529.3	10254807.25	1191295261	57283395.24	13450350.9	306942130.4	20775625.24
<b>D)</b>	<b>TRANSPORTATION</b>											
12	Transportation charges by rail/ship/road transport	(Rs.)	665987891.2	0	6784068.7	0	1376456.1	466882601.4	12117612	7415981	0	-500445.28
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)										
14	Demurrage Charges, if any	(Rs.)						1155791				
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)										
16	Total Transportation Charges (12+13+14+15)	(Rs.)	665987891.2	0	6784068.7	0	1376456.1	465526810.4	12117612	7415981	0	-500445.28
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	2668089959	0	15970375.87	782707529.3	11631263.35	1656822071	69401005.24	20866331.9	306942130.4	20275179.96
<b>E)</b>	<b>TOTAL COST</b>											
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	5,376.11	5,610.16	4,083.32	13,023.67	8,515.77	5,343.96	5,909.51	5,183.80	12,798.07	8,689.75
19	Blending Ratio		80.16%	0.00%	0.99%	18.52%	0.34%	93.39%	1.96%	0.89%	3.24%	0.52%
20	Weighted average cost of coal/ Lignite	Rs./MT			6789.93					5612.40		
<b>F)</b>	<b>QUALITY</b>											
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4040	4751	4482		0	4092	4751	4457		0
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4156	0	4451		3701	4103	4751	5051		3788
23	GCV of Imported Coal of the opening stock as per bill Coal Company	(kCal/Kg)				4956					5065	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				5100					4970	
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)			4275					4145		
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3212	3761	3425		0	3224	3761	2989		0
27	GCV of Domestic Coal/ Biomass supplied as received at Station	(kCal/Kg)	3235	0	2880		3701	3353	3756	3811		3788
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4956					5065	
29	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5100					4970	
30	Weighted average GCV of coal/ Lignite as Received	(kCal/Kg)			3565					3541		

## Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited												
Name of the Power Station :		Kharagpur STPS												
Sl.No.	Month	Unit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
			LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO
1	Opening quantity of oil	KL	2768.141	2768.141	2538.141	2538.141	1641.141	4801.631	4801.631	4671.631	4671.631	4443.631	4035.631	3779.631
2	Value of opening	Rs	230779427.43	230779427.43	211604367.96	211604367.96	136821636.01	378159321.01	378159321.01	367920984.96	367920984.96	349964518.67	317831894.79	297670248.42
3	Quantity of oil supplied by Oil Company	KL					3160.49							
4	Value of Oil	(Rs)												
5	Adjustment (+/-) in quantity supplied made by Oil Company	KL												
6	Oil supplied by Oil Company	KL					3160.49							
7	Normative transit & Handling losses	KL												
8	Net Oil supplied (4-5)	KL					3160.49							
9	Amount charged by the Oil Company	(Rs)					241337685							
10	Adjustment (+/-) in amount charged by Oil Company	(Rs)												
11	Total Amount charged (7+8)	(Rs)					241337685							
12	Transportation charges by Rail / Ship / Road Transport	(Rs)												
13	Adjustment (+/-) in amount charged by railways / transport company	(Rs)												
14	Demurrage charges, if any	(Rs)												
15	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)												
16	Total transportation charges (10+/- 11 - 12 + 13)	(Rs)												
17	Others- Entry Tax on oil	(Rs)												
18	Total amount charged for Oil supplied including transportation (14 + 15)	(Rs)					241337685							
19	Landed Cost of Oil	Rs/KL	83369.82	83369.82	83369.82	83369.82	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43
20	Weighted average GCV of Oil	(kCal/L)	9516	9516	9516	9516	9493	9493	9493	9493	9493	9493	9493	9493
21	Weighted average rate of Secondary Fuel	Rs/KL	83369.82	83369.82	83369.82	83369.82	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43	78756.43

PETITIONER

**PART-I  
FORM-18A**

**Details of Reagent for  
Computation of Supplementary Energy Charge Rate**

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Kharagone Super Thermal Power Station

S. No.	Description	Unit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
	Opening Quantity													
1	Opening Quantity of Reagent	(Metric Tonne)	8243.70	8304.30	8236.90	8236.90	8360.84	8427.44	8629.83	8629.83	8643.16	8709.95	8480.88	8483.07
2	Value of Stock	(Rs.)	21618773.50	21766331.05	21609507.15	21609507.15	21934663.74	14238888.84	17392634.31	17392634.31	14804830.26	14880053.83	17002538.88	17056579.52
	Quantity													
3	Quantity of Reagent supplied by Limestone or Reagent supply Company	(Metric Tonne)	60.60	0.00	0.00	1499.94	759.60	3910.28	0.00	105.03	4340.89	1750.00	1255.39	
4	Adjustment (+/-) in quantity supplied made by Limestone or Reagent supply Company	(Metric Tonne)	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	Net quantity of Reagent Received (3+4)	(Metric Tonne)	60.60	0.00	0.00	1499.94	759.60	3910.28	0.00	105.03	4340.89	1750.00	1255.39	
6	Amount charged for Reagent supply Company	(Rs.)	34966.20	0.00	0.00	862455.92	437153.38	2250278.23	0.00	60415.31	2498512.19	1007050.15	705965.94	
7	Adjustment (+/-) in amount charged made for Reagent supply by the Company	(Rs.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Total amount Charged (6+7)	(Rs.)	34966.20	0.00	0.00	862455.92	437153.38	2250278.23	0.00	60415.31	2498512.19	1007050.15	705965.94	
9	Transportation charges by rail/ship/road transport	(Rs.)	123951.24	0.00	0.00	3068465.96	1554876.45	8004364.22	0.00	215024.71	88835346.81	3580349.43	2638419.00	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	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	Demurrage Charges, if any	(Rs.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Total Transportation Charges (9+10-11)	(Rs.)	123951.24	0.00	0.00	3068465.96	1554876.45	8004364.22	0.00	215024.71	88835346.81	3580349.43	2638419.00	0.00
13	Total amount Charged for Reagent supplied including Transportation (8+12)	(Rs.)	158917.44	0.00	0.00	3930941.88	1992031.83	10254642.45	0.00	275440.02	11383889.00	4587399.58	3344384.94	0.00
14	Weighted Average Cost of Reagent during the month $[(2+13)/(1+5)]$	(Rs/ tonne)	2622.46	2623.50	2623.50	2623.34	2623.41	2623.07	2623.50	2623.48	2623.05	2623.00	2629.74	2630.94
15	Purity of Reagent received during the month (as CaCO <sub>3</sub> )	(%)	85.85	85.10	85.10	87.02	84.70	85.20	85.20	85.29	85.00	85.29	85.00	85.00
16	Sulphur Content in the Coal	(%)	0.49	0.48	0.48	0.48	0.42	0.42	0.42	0.42	0.44	0.44	0.59	0.70

PART-I FORM- L				
Statement of Capital cost				
Name of the Petitioner		NTPC Limited		
Name of the Generating Station		Khargone		
COD		04-04-2020		
Amount in Rs Lakh				
Sl. No.	Particulars	2024-25		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	11,66,094.12	23,276.65	11,42,817.47
	b) Amount of IDC In A(a) above	1,05,312.89	0.00	1,05,312.89
	c) Amount of FC In A(a) above	0.00	0.00	0.00
	d) Amount of FERV In A(a) above	9,473.37	0.00	9,473.37
	e) Amount of Hedging Cost In A(a) above	0.00	0.00	0.00
	f) Amount of IEDC In A(a) above	47,504.04	0.00	47,504.04
B	a) Addition In Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC In B(a) above			
	c) Amount of FC In B(a) above			
	d) Amount of FERV In B(a) above			
	e) Amount of Hedging Cost In B(a) above			
	f) Amount of IEDC In B(a) above			
C	a) Addition In Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC In C(a) above			
	c) Amount of FC In C(a) above			
	d) Amount of FERV In C(a) above			
	e) Amount of Hedging Cost In C(a) above			
	f) Amount of IEDC In C(a) above			
D	a) Deletion In Gross Block Amount during the period			
	b) Amount of IDC In D(a) above			
	c) Amount of FC In D(a) above			
	d) Amount of FERV In D(a) above			
	e) Amount of Hedging Cost In D(a) above			
	f) Amount of IEDC In D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC In E(a) above			
	c) Amount of FC In E(a) above			
	d) Amount of FERV In E(a) above			
	e) Amount of Hedging Cost In E(a) above			
	f) Amount of IEDC In E(a) above			

Shall be provided at truing-up for 2024-29 for subsequent periods

## Statement of Capital Works in Progress

Name of the Petitioner		NTPC Limited		
Name of the Generating Station		Khargone		
COD		04-04-2020		
(Amount in Rs Lakh)				
Sl. No.	Particulars	2024-25		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	18,281.34	4,148.77	14,132.57
	b) Amount of IDC in A(a) above	112.45		112.45
	c) Amount of FC in A(a) above			-
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			-
	f) Amount of IEDC in A(a) above	1.61		1.61
				-
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			

Shall be provided at truing-up for 2024-29 for subsequent periods

Shall be provided at truing-up for 2024-29 for subsequent periods

**PART-I  
FORM- N**

**Calculation of Interest on Normative Loan**

Name of the Company :	NTPC Limited
Name of the Power Station :	Khargone

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Gross Normative loan – Opening	7,72,239.33	8,33,117.56	8,42,699.78	8,65,599.55	8,65,599.55	8,76,307.44
2	Cumulative repayment of Normative loan up to previous year	1,62,546.82	2,19,786.19	2,80,120.38	3,41,624.00	4,03,952.09	4,66,665.69
3	<b>Net Normative loan – Opening</b>	<b>6,09,692.51</b>	<b>6,13,331.37</b>	<b>5,62,579.41</b>	<b>5,23,975.55</b>	<b>4,61,647.46</b>	<b>4,09,641.75</b>
4	Add: Increase due to addition during the year / period	55196.74	9582.22	22899.77	0.00	10707.89	0.00
5	Less: Decrease due to de-capitalisation during the year / period	726.15	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	6407.64	0.00	0.00	0.00	0.00	0.00
8	Repayment during the year	57390.67	60334.18	61503.63	62328.08	62713.60	63099.11
9	Repayment adj on account of Decap	151.30	0.00	0.00	0.00	0.00	0.00
10	Repayment adj for discharges upto 01.04.09	0.00	0.00	0.00	0.00	0.00	0.00
11	Less: Net repayment of loan	57239.38	60334.18	61503.63	62328.08	62713.60	63099.11
12	<b>Net Normative loan - Closing</b>	<b>6,13,331.37</b>	<b>5,62,579.41</b>	<b>5,23,975.55</b>	<b>4,61,647.46</b>	<b>4,09,641.75</b>	<b>3,46,542.64</b>
13	<b>Average Normative loan</b>	<b>6,11,511.94</b>	<b>5,87,955.39</b>	<b>5,43,277.48</b>	<b>4,92,811.50</b>	<b>4,35,644.61</b>	<b>3,78,092.19</b>
14	Weighted average rate of interest (%)	5.3606	5.3669	5.2772	5.3457	5.7156	6.1803
15	<b>Interest on Loan</b>	<b>32780.53</b>	<b>31554.73</b>	<b>28669.68</b>	<b>26344.13</b>	<b>24899.80</b>	<b>23367.26</b>

(Petitioner)

Name of Petitioner: NTPC Ltd  
Name of Station: Khargone

**Computation of Energy Charges**

Parameter	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Capacity</b>	<b>MW</b>	<b>1320</b>	<b>1320</b>	<b>1320</b>	<b>1320</b>	<b>1320</b>
No of Days in the year	Days	365.00	365.00	365.00	366.00	365.00
Sp. Oil consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50
Auxiliary consumption	%	5.75	5.75	5.75	5.75	5.75
Auxiliary consumption incl. for FGD	%	6.75	6.75	6.75	6.75	6.75
Heat Rate	kCal/kWh	2163.15	2163.15	2163.15	2163.15	2163.15
<b>Coal &amp; Oil Parameters</b>						
Wtd. Avg. Price of Coal	Rs./MT	6127.32	6127.32	6127.32	6127.32	6127.32
Wtd. Avg. GCV of Coal as received	kCal/kg	3665.42	3665.42	3665.42	3665.42	3665.42
Wtd. Avg. GCV of Coal as received after adj of 85 kcal/kg	kCal/kg	3580.42	3580.42	3580.42	3580.42	3580.42
Wtd. Avg. Price of Secondary Fuel	Rs/KL	80294.23	80294.23	80294.23	80294.23	80294.23
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9500.67	9500.67	9500.67	9500.67	9500.67
<b>Computation of Variable Charges</b>						
Heat Contribution from SFO/ Alternate Fuel	kCal/kWh	4.75	4.75	4.75	4.75	4.75
Heat Contribution from coal	kCal/kWh	2,158.40	2,158.40	2,158.40	2,158.40	2,158.40
Specific Primary Fuel Consumption	kg/kWh	0.603	0.603	0.603	0.603	0.603
Variable Charge (Coal)	paise/kWh	391.911	391.911	391.911	391.911	391.911
Variable Charge (Oil)	paise/kWh	4.260	4.260	4.260	4.260	4.260
<b>Total Variable Charges</b>	<b>paise/kWh</b>	<b>396.171</b>	<b>396.171</b>	<b>396.171</b>	<b>396.171</b>	<b>396.171</b>
<b>Computation of Fuel Expenses for Calculation of IOWC:</b>						
ESO in a year	(MUs)	9263.57	9263.57	9263.57	9288.95	9263.57
ESO in a year for receivables	(MUs)	9165.28	9165.28	9165.28	9190.39	9165.28
ESO for 50 days	(MUs)	1268.982	1268.982	1268.982	1268.982	1268.982
ESO for 45 days	(MUs)	1142.084	1142.084	1142.084	1142.084	1142.084
Cost of coal for 50 Days	(Rs. Lakh)	49732.806	49732.806	49732.806	49732.806	49732.806
Cost of oil for 2 months	(Rs. Lakh)	657.66	657.66	657.66	659.46	657.66
Energy Expenses for 45 days	(Rs. Lakh)	44765.95	44765.95	44765.95	44765.95	44765.95

**PETITIONER**

Form-O(ii) Additional Form						
Computation of Supplementary ECR and IOWC corresponding to FGD						
Name of the Petitioner: NTPC Ltd						
Name of the Generating Station: Kharagone STPS						
Particular	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
No. of days	days	365.00	365.00	365.00	366.00	365.00
FGD Capacity ODe achieved	MW	1320	1320	1320	1320	1320
CVPF	kCal/Kg	3580.42	3580.42	3580.42	3580.42	3580.42
CVSF	kCal/Litre	9500.67	9500.67	9500.67	9500.67	9500.67
LPPF	Rs/MT	6127.32	6127.32	6127.32	6127.32	6127.32
LPSF	Rs/KL	80294.23	80294.23	80294.23	80294.23	80294.23
AUX-Norm	%	5.75	5.75	5.75	5.75	5.75
GHR-Norm	kCal/kWh	2,163.15	2163.15	2163.15	2163.15	2163.15
SFC-Norm	Litre/kWh	0.0005	0.00	0.00	0.00	0.00
ECR	Rs/kWh	3.96171	3.96	3.96	3.96	3.96
AUX for DESOX(Norm)	%	1	1.00	1.00	1.00	1.00
NEW AUX-NORM	%	6.75	6.75	6.75	6.75	6.75
NEW GHR-NORM	kCal/kWh	2,163.15	2163.15	2163.15	2163.15	2163.15
NEW-SFC-NORM	Litre/kWh	0.0005	0.00	0.00	0.00	0.00
NEW ECR	Rs/kWh	4.004	4.00	4.00	4.00	4.00
Delta ECR	Rs/kWh	0.042	0.042	0.042	0.042	0.042
			0.00	0.00	0.00	0.00
Design SO2 removal efficiency	%	96.72	96.72	96.72	96.72	96.72
Landed price of reagent	Rs/MT	2624.54	2624.54	2624.54	2624.54	2624.54
K(IFGD Constant)	number	35.464	35.46	35.46	35.46	35.46
SHR Station Heat rate	kCal/kWh	2,163.15	2163.15	2163.15	2163.15	2163.15
S-Sulphur Content	%	0.48	0.48	0.48	0.48	0.48
CVPF	kCal/Kg	3580.42	3580.42	3580.42	3580.42	3580.42
LP-Lime stone purity	%	85.48	85.48	85.48	85.48	85.48
Specific Reagent consumption 'SRC' =(K x SHR x S /CVPF) x (85/LP)	gm/kWh	10.26229936	10.26	10.26	10.26	10.26
ECR (corresponding to reagent consumption)	Rs/kWh	0.029	0.029	0.029	0.029	0.029
			0.00	0.00	0.00	0.00
Supplementary ECR	Rs/kWh	0.071	0.071	0.071	0.071	0.071
			0.00	0.00	0.00	0.00
ESO in the period	MUs	9165.28	9165.28	9165.28	9165.28	9165.28
Cost of limestone in the period	Rs Lakh	2647.25	2647.25	2647.25	2647.25	2647.25
Supplementary Energy Expenses in the period	Rs Lakh	6541.10	6541.10	6541.10	6541.10	6541.10
Cost of limestone for 50 days in FY 23-24	Rs Lakh	362.64	362.64	362.64	362.64	362.64
Supplementary Energy Expenses for 45 days in FY 23-24	Rs Lakh	806.44	806.44	806.44	806.44	806.44
Petitioner						

**Calculation of Interest on Working Capital**

Name of the Company :	NTPC Limited
Name of the Power Station :	Khargone

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite	62,117.71	49732.81	49732.81	49732.81	49732.81	49732.81
1a	Cost of Limestone for ECS (FGD)		362.64	362.64	362.64	362.64	362.64
2	Cost of Main Secondary Fuel Oil	684.72	657.66	657.66	657.66	659.46	657.66
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses (including for ECS, i.e. FGD)	3,069.61	3833.74	3974.33	4115.80	4317.54	4528.08
6	Maintenance Spares (including for ECS, i.e. FGD)	7,367.07	9200.97	9538.39	9877.92	10362.09	10867.39
7	Receivables (including for ECS, i.e. FGD)	82,619.94	72893.11	73044.42	73176.21	73321.99	73624.65
8	Total Working Capital	155859.05	136680.93	137310.25	137923.03	138756.52	139773.21
9	Rate of Interest (%)	12.00	11.90	11.90	11.90	11.90	11.90
10	Interest on Working Capital	18703.09	16265.03	16339.92	16412.84	16512.03	16633.01

Petitioner

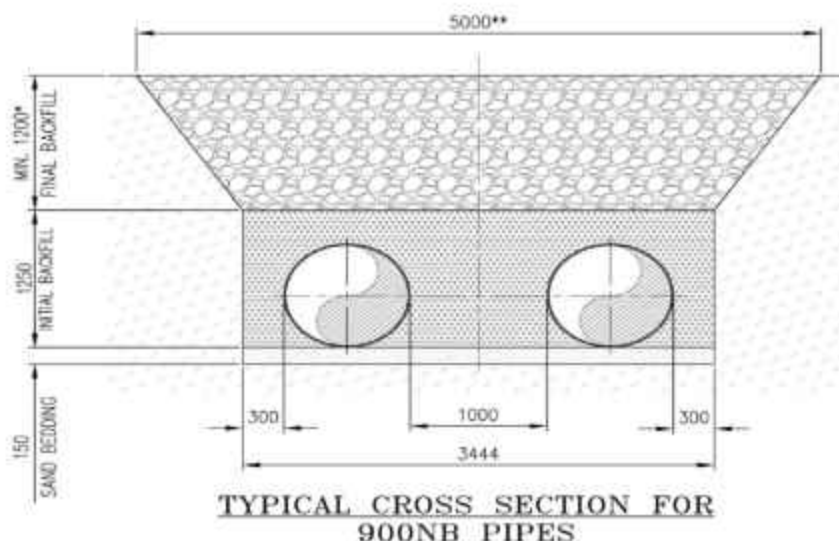
## Summary of issue involved in the petition

Name of the Company :		NTPC Limited	
Name of the Power Station :		Khargone STPS	
1	Petitioner:	NTPC Limited	
2	Subject	APPROVAL OF TARIFF FOR THE PERIOD 2024-29	
3	i) Approve tariff of Khargone STPS 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) Pass any other order as it may deem fit in the circumstances mentioned above.		
4	Respondents: 6		
Name of Respondents			
1. Madhya Pradesh Power Management Company Limited Shakti Bhawan, Vidyut Nagar, Rampur, Jabalpur – 110003		2. Maharashtra State Electricity Distribution Company Limited Prakashgad, Bandra (East), Mumbai – 400051.	
3. Gujarat Urja Vikas Nigam Limited 2nd Floor, Sardar Patel Vidyut Bhawan, Race Course, Vadodara – 390007.		4. Chattisgarh State Power Distribution Co. Ltd., P.O. Sundar Nagar, Danganaya, Raipur – 492013	
5. Electricity Department Government of Goa, 3rd Floor, Vidyut Bhawan, Panaji, Goa – 403001.		6. Dadra and Nagar haveli and Daman and Diu Power Distribution Corporation Limited (DNHDDPDCL) 1st & 2nd floor, Vidyut Bhavan, 66 kV Road Dadra and Nagar haveli and Daman and Diu - 396230	
6	Project Scope	2x660 MW MW Coal based Station	
7	COD	04.04.2020	
8	Claim: Add Cap	(Rs Lakh)	
	2024-25		13,688.89
	2025-26		32,713.95
	2026-27		-
	2027-28		15,296.98
	2028-29		-
9	AFC (2028-29)	2,27,535.02	
10	Capital cost as on 31.03.29	12,51,867.77	
11	NAPAF (Gen)	85%	
12	Any Specific	-	

### Justification for Additional Make-up Water Pipeline (Mild Steel) from Plant to Make-up Water Pump House for Khargone STPS

It is submitted that the source of water for the Khargone Project (2x660 MW) is Omkareshwar Dam. The Make-up Water Pump House (MUWPH) for the Khargone Project is constructed on the shores of Omkareshwar Dam and is at a distance of about 41.3 Km from the Khargone Plant. For supply of water to the Project from the Dam, 2 nos. of 900 mm dia Make-up Water (MUW) Pipelines have been laid underground (except for overground at some crossings) from MUWPH to the Plant. Since the source of water is at a substantial distance from the Plant, to save upon capital cost for MUW pipeline, Glass Fibre Reinforced Polyester (GRP) pipeline was envisaged. It is noteworthy that capital cost for GRP pipe is significantly lower than Mild Steel (MS) pipe. Also, the capacity of each pipeline was envisaged as 50% of the required flow for sustained operation of the Station, i.e. both the pipelines combined catering to 100% of the requirement, with no redundancy/ margin in the pipelines capacity and both the pipelines to be available at all times to meet the Plant's requirement of water (2 nos. of reservoirs cater to 3 days of requirement during period of no supply of water). Accordingly, the work of MUW Pipeline was executed as part of the EPC Contract for the Khargone Project by M/s L&T. It is relevant to mention that that in the 41.3 km stretch from Plant to MUWH, the ground profile is extremely undulating, and the pipeline passes through a number of cultivable lands, hard rock terrain with peaks and valleys, and on the way crosses approx. 4 no. rivers, railway track at 03 locations, 17 no. canals, 2 no. ponds, 21 no. nallahs, 10 no. surfaced roads, 20 no. of cart tracks, etc. Accordingly, based upon the soil strata and underground/ overground crossings, the Pipeline of make GRP in approx. 37 km, Ductile Iron (DI) in approx. 3 km and Mild Steel (MS) in approx. 1.5 km has been laid for the instant Station.

A typical section of the aforementioned underground pipeline for the instant Station is depicted below.



It is pertinent to note that as the sustained operation of the Station started post COD, frequent leakage, often of severe nature with complete rupture, started getting observed in the GRP pipeline. As explained above, since the pipelines capacity was 2x50%, leakage in even one pipeline threatened the availability of water to sustain the Plant Operations. As such, the moment any leakage comes to notice, the Petitioner takes swift action to attend the same. However, the time period for repair of pipeline and restoration of flow through pipeline is around 03 to 12 days depending upon the nature/ severity of leakage, time taken in having access to the leakage location in pipeline going through various agricultural lands/ hard rock terrains along the 41.3 km stretch, permission from state authority/ farm owners to enter the agricultural land after assessment of damage to land/ crops if any and compensation to be paid if any, excavating the soil/ rock strata around pipeline for repair, repairing and strengthening time depending upon season, etc. This period is further elongated during monsoon Season due to approach and mobilization issues as a result of large distances from motorable road, continuously inundated areas due to heavy flow in Nallahs/ Canals/ Rivers, long de-watering time due to continuous underground water flow & high water table, extremely muddy areas due to Black Cotton Soil, dense cultivation in farmlands and difficulty in Excavation due to Hard Rock beneath Pipe.

As the leakages in GRP pipeline continued to occur at frequent intervals, putting at risk the availability of water to ensure sustained generation from the Station, the Petitioner carried out a thorough Root Cause Analysis of the leakages occurring. It was noticed that the leakages were occurring in the areas with high water table and the frequency of leakage increased substantially during monsoons. From the pattern of cracks in the GRP pipeline, it was evident that the cracks were appearing due to Shear Failure of GRP pipe owing to differential settlement caused by ground water penetrating the pipeline zone and high variation in water table causing swelling and shrinkage of black cotton soil up on wetting and drying. The said cause of high ground water table and high variations in ground water table is also corroborated by the water table data of some of the areas through which pipeline is crossing, obtained from the Office of Geohydrologist, District Ground Water Survey unit -16, Khargone (M.P.), **attached underneath**.

It is submitted that the high ground water table and high variations in ground water table causing, GRP pipeline failure, are geographical phenomena over which the Petitioner has no control. Further, as detailed above, carrying out repair for leakage in pipeline and restoring the flow took from about 03-12 days putting at risk the availability of water to ensure sustained generation from the Station. In fact, due to unavailability of make-up water owing to the said leakages, the instant Station has suffered a loss of generation of about 256 Million Units (MUs), 1124 MUs, 311 MUs and 726 MUs in FY 20-21, FY 21-22, FY 22-23 and FY 23-24 respectively.

Further, the Sub-Divisional Officer, Barwaha, District Khargone, Govt of MP, vide its letter dated 02.08.2022 (**copy attached underneath**) raised serious concern about the frequent leakages occurring in pipeline passing through agricultural lands in a number of villages. The

said District Authority highlighted that due to frequent leakages in pipeline, there is recurrent damage to the crops and agricultural land, owing to which farmers create law and order problems and also demand compensation, and accordingly directed to take necessary action to ensure that there is no leakage in the underground pipeline.

In view of the above, the Petitioner is left with no option but to lay additional Mild Steel (MS) make pipeline, since MS pipeline will not be susceptible to failure as it can withstand the high ground water table/ high variations in ground water table without any damage. Accordingly, after detailed technical analysis and optimizing to ensure minimum cost, the Petitioner is laying 01 no. 1200 mm diameter MS pipeline from the Plant to the MUWPH (about 41.3 km length). Accordingly, the projected capitalization for the said works comprises of complete procurement, laying and associated civil and mechanical works for the said MS pipeline including underground/ overground crossings over rivers/ railway tracks/ roads/ canals/ ponds/ nallahs/ etc. It is worthy to note that the said installation of MS Pipeline will highly improve the reliability of MUW pipeline thereby ensuring necessary availability of water for sustained generation from the Station and will also lead to saving of precious resource, i.e., water, that is getting wasted in leakages from GRP pipeline. Also, the existing GRP pipelines with 2x50% capacity are highly optimised and have led to initial reduced capital cost burden on the beneficiaries and the capitalization for the instant additional 01 no. 1200 dia MS Pipeline works projected in the 2024-29 period will thus avoid front loading of tariff on the beneficiaries.

In view of the above, Hon'ble Commission may be pleased to allow the works for 01 no additional MUW Pipeline (Mild Steel) from Plant to MUWPH and projected capitalization on this behalf under Regulation 26(1)(b), 26(1)(c) and 26(1)(i) of Tariff Regulations 2024.

कार्यालय अनुविभागीय अधिकारी (राजस्व) अनुविभाग-बडवाह  
जिला-खरगोन म0प्र0 फोन नम्बर 07280-223456 email-  
sdmbarwah@gmail.com

क्रमांक / 2161 / री-2/22  
प्रति,

बडवाहा दिनांक 02-08-2022

मुख्य महाप्रबंधक,  
एनटीपीसी सेल्दा  
जिला-खरगोन

विषय:- एनटीपीसी की भूमिगत पाईप लाईन के संबंध में ।

—00—

विषयान्तर्गत लेख है कि, ग्राम सेल्दा में स्थित एनटीपीसी के प्लान्ट में विद्युत उत्पादन एवं रहवासी क्षेत्र में पेयजल हेतु आपकी भूमिगत पानी की पाईप लाईन तहसील सनावद के ग्राम -बालाबाद,आरसी, दाभड,लाछोरा, बैडिया, बागादाबुर्जुग, बागदाखुर्द, गोराडिया, मोखनगांव,बिराली, ढकलगांव, रूखडी, बासवा, भोखर, खनगांवखेडी, बावनी, जूनापानी, राजपुरा, अंजरुद से होकर प्लान्ट तक आई है।

उक्त भूमिगत पाईप लाईन में आयेदिन लीकेज एवं पाईप लाईन के फुटने से किसानों की खडी फसल एवं कृषि भूमि को आये दिन क्षति होती है, जिसके कारण संबंधित प्रभावित किसानों द्वारा पुनः पाईप लाईन को चालू नहीं करने देते हैं तथा फसल एवं कृषि भूमि को क्षति बताकर अपनी मर्जी अनुसार राहत राशि की मांग करते हैं, तथा कानून एवं व्यवस्था भी भंग करते हैं, साथ ही अनेक प्रकार की शिकायत व सी.एम.हेल्पलाईन में शिकायत निरन्तर दर्ज कराते रहते हैं। जबकि अधिकांश किसानों की मांग अनुचित होती है तथा प्रशासन का महत्वपूर्ण समय भी खराब होता है।

अतः उक्त परिस्थिति को ध्यान में रखते हुये आपकी भूमिगत पानी की पाईप लाईन बार-बार ना फूटे, इस हेतु समुचित कार्यवाही करना सुनिश्चित करे।

अनुविभागीय अधिकारी  
(राजस्व) बडवाह

बडवाहा दिनांक 02-08-2022


पृ.क्रमांक / 2162 / री-2/22

प्रतिलिपि :-

- 01- कलेक्टर महोदय खरगोन की ओर सादर सूचनार्थ।
- 02- तहसीलदार, सनावद की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

अनुविभागीय अधिकारी  
(राजस्व) बडवाह

[illegible]

  
 Mark Gensy, President  
 The Ground Water Society  
 1001 N. 10th Street  
 St. Paul, MN 55102

Water table data of villages through which Make-up Water Pipeline of Khargone STPS is passing

Office of the Assistant Commissioner  
Dist. Ground Water Survey Unit-16,  
Khargone (M.P.)

S.No.	POW No.	BLOCK	VILLAGE	WATER LEVEL 2013				WATER LEVEL 2014				WATER LEVEL 2015				WATER LEVEL 2016			
				Jan	Feb	Aug	Post	Jan	Feb	Aug	Post	Jan	Feb	Aug 15	Post15	Jan16	Feb16	Aug 16	Post16
1	2	3	4	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
59	SKGN-101-OW	Bareilly	Katwa	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30
60	SKGN-034-OW		Beda	5.30	5.40	5.20	5.00	4.70	4.50	4.20	4.00	3.80	3.60	3.40	3.20	3.00	2.80	2.60	2.40
61	SKGN-122-OW		Baghat	5.70	5.80	5.60	5.40	5.20	5.00	4.80	4.60	4.40	4.20	4.00	3.80	3.60	3.40	3.20	3.00
62	SKGN-155-OW		Jethway	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
63	SKGN-093-OW		Baghat	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
64	SKGN-114-OW		Jethway	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70
65	SKGN-035-OW2016		Dhuleshwar																
66	SKGN-054-OW2016		Kheddi Hat																
67	SKGN-055-OW2016		Umari Chowki																
68	SKGN-056-OW2016		Mukhtiyara																
69	SKGN-057-OW2016		Baz																
	SKGN-115-OW		Jethway	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80
	SKGN-035-OW		Sarawat																
	SKGN-092-OW		Katwa																
	SKGN-036-OW		Bareilly																
	SKGN-037-OW		Bareilly																
6	11	Bareilly	Average	5.54	5.72	5.40	5.29	5.05	4.85	4.65	4.45	4.25	4.05	3.85	3.65	3.45	3.25	3.05	2.85

Asst. Geohydrologist  
Dist. Ground Water Survey  
Unit-16, Khargone

Office of the Assistant Commissioner  
Dist. Ground Water Survey Unit-16,  
Khargone (M.P.)

S.No.	POW No.	BLOCK	VILLAGE	Jan-17	Feb-17	Aug-17	Post-17	Jan-18	Feb-18	Aug-18	Post-18	Jan-19	Feb-19	Aug-19	Post-19	Jan-20	Feb-20	Aug-20	Post-20
				SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL	SWL
1	2	3	4	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
59	SKGN-131-OW	Bareilly	Katwa	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30
60	SKGN-104-OW		Beda	4.75	4.85	4.65	4.45	4.25	4.05	3.85	3.65	3.45	3.25	3.05	2.85	2.65	2.45	2.25	2.05
61	SKGN-122-OW		Baghat	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
62	SKGN-155-OW		Jethway	5.45	5.55	5.65	5.75	5.85	5.95	6.05	6.15	6.25	6.35	6.45	6.55	6.65	6.75	6.85	6.95
63	SKGN-193-OW		Baghat	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	7.00	7.10	7.20	7.30	7.40
64	SKGN-114-OW		Jethway	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80
65	SKGN-035-OW2016		Dhuleshwar	4.90	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40
66	SKGN-054-OW2016		Kheddi Hat	4.40	4.50	4.60	4.70	4.80	4.90	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90
67	SKGN-055-OW2016		Umari Chowki	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
68	SKGN-056-OW2016		Mukhtiyara	5.85	5.95	6.05	6.15	6.25	6.35	6.45	6.55	6.65	6.75	6.85	6.95	7.05	7.15	7.25	7.35
69	SKGN-057-OW2016		Baz	4.85	4.95	5.05	5.15	5.25	5.35	5.45	5.55	5.65	5.75	5.85	5.95	6.05	6.15	6.25	6.35
	SKGN-115-OW		Jethway																
	SKGN-035-OW		Sarawat																
	SKGN-092-OW		Katwa																
	SKGN-036-OW		Bareilly																
	SKGN-037-OW		Bareilly																
6	11	Bareilly	Average	4.41	4.59	4.79	4.99	5.19	5.39	5.59	5.79	5.99	6.19	6.39	6.59	6.79	6.99	7.19	7.39

Asst. Geohydrologist  
Dist. Ground Water Survey  
Unit-16, Khargone

Water table data of villages through which Make-up Water Pipeline of Khargone STPS is passing

Office of the Assistant Engineer  
Dist. Water & Power Supply (D.W.P.S.)  
Khargone (M.P.)

WATER LEVEL IN TDS

S.No.	POW No.	BLOCK	VILLAGE	Jan-21 W/L	May-21 W/L	Aug-21 W/L	Nov-21 W/L	Feb-22 W/L	May-22 W/L	Aug-22 W/L	Nov-22 W/L	Jan-23 W/L	May-23 W/L	Aug-23 W/L	Nov-23 W/L
58	SKGN-101-OW	Bawwa	Kabara	2.72	3.2	2.13	3.1	3.11	4.25	3.33	3.32	3.74	3.34	3.33	3.79
59	SKGN-104-OW		Bada	4.28	3.13	3.29	4.7	3.33	3.2	2.83	3.74	3.74	3.74	3.74	3.74
60	SKGN-122-OW		Dagla	3.13	3.36	3	3.1	3.27	3.15	3.3	3.33	3.33	3.33	3.33	3.33
61	SKGN-155-OW		Jadhwa	2.21	3.43	3.50	2.1	3.4	3.13	3.5	3.4	3.34	3.34	3.34	3.34
62	SKGN-083-OW		Bagat	3.34	3.34	3.4	3.3	3.1	2.3	3.1	3.3	3.34	3.34	3.34	3.34
63	SKGN-114-OW		Jharbar	4.3	3.41	3.41	3.4	3.3	4.2	3.12	3.43	3.34	3.34	3.34	3.34
64	SKGN-035-OW/2010		Chandeshwar	2.31	2.42	3.15	2.9	3.25	3.04	3.33	3.34	3.34	3.34	3.34	3.34
65	SKGN-054-OW/2010		Khed Hat	4.29	3.05	3.25	3.6	4.1	3.1	2.54	3.33	3.34	3.34	3.34	3.34
66	SKGN-055-OW/2010		UnakhaChowki	3.31	4.24	3.3	3	3.27	3.73	3.36	3.33	3.34	3.34	3.34	3.34
67	SKGN-056-OW/2010		Mukhtiyara	3.3	3.39	3.36	3.3	3.3	3.36	3.3	3.34	3.34	3.34	3.34	3.34
68	SKGN-061-OW/2010		Rani	3.37	3.00	3.16	3.0	3.4	3.22	3.33	3.3	3.34	3.34	3.34	3.34
69	SKGN-115-OW		Jadhwa												
70	SKGN-035-OW		Sandwa												
71	SKGN-052-OW		Kabla												
72	SKGN-056-OW		Bawwa												
73	SKGN-037-OW		Bawwa												
8	11	Bawwa	Average	3.22	3.14	3.22	3.36	3.32	3.43	3.13	3.34	3.34	3.34	3.34	3.34

Asst. Engineer  
Dist. Water & Power Supply  
Khargone



### Summary of Revised Cost Estimate (RCE-I) for Khargone STPP (2x660 MW)

The Investment Approval of Khargone STPP (2x660 MW) was accorded in 417<sup>th</sup> meeting of Board of Directors of NTPC Ltd held on 25.02.2015 at an Indicative Estimated Completed Cost of Rs 11148.86 Cr including IDC and FC of Rs 1464.78 Cr and WCM of Rs 272.21 Cr. Further, Investment Approvals for FGD at a total cost of Rs 650.29 Cr and Smart Township at a total cost of Rs 26.83 Cr were also accorded in July 2018 and August 2019 respectively.

Subsequently, Competent Authority of NTPC Ltd. in February 2021 approved the Revised Cost Estimate (RCE-I) of Khargone STPP (2x660 MW) as of 3<sup>rd</sup> Qtr 2020 price level at a cost of Rs 12,644.97 Cr (inclusive of IDC & FC, WCM & ERL). The break-up is as under:

(Amount in Rs Cr)

Sl. No.	Description	Investment Approval Completed Cost	RCE-I Cost (3 <sup>rd</sup> Qtr 2020)
1	Project Cost incl. FGD	10060.23	11037.55
2	IDC & FC	1493.54	1026.52
3	Working Capital Margin (WCM)	272.21	262.21
4	Exchange Rate Liability on Foreign Loans (ERL)	0.00	318.69
	<b>Project Cost incl. IDC, WCM and ERL</b>	<b>11825.98</b>	<b>12644.97</b>

*Shankar Saran*

Shankar Saran

General Manager (Commercial)

शंकर सरन/SHANKAR SARAN  
महाप्रबन्धक (वाणिज्यिक)  
General Manager (Commercial)  
एन टी पी सी लिमिटेड/NTPC LIMITED  
EOC, A-8A, Sector-24, Noida-201 301 (U.P.)

**Khargone STPS**  
**Break-up of Investment Approval Cost and Revised Cost Estimate (RCE) vis-à-vis actual capital expenditure**

(Amount in Rs Lakh)

Sl. No.	Break Down	As per Original Estimates as per Investment Approval	As per Approved RCE	Capital Expenditure up to COD of Unit-2 (04.04.2020) (Cash Basis)	Liabilities / Provisions as on COD of Unit-2	Capital Expenditure (cash basis) as on 31.3.2021	Capital Expenditure (cash basis) as on 31.3.2022	Capital Expenditure (cash basis) as on 31.3.2023	Capital Expenditure (cash basis) as on 31.3.2024
<b>1</b>	<b>Cost of Land &amp; Site Development</b>								
1.1	Land:								
	Freehold Land			5,597.28	4,605.28	6,271.82	6,713.92	7,143.27	7,729.98
	Leasehold Land	36,980.00	30,300.00	4,088.10		4,088.10	4,072.84	4,072.84	4,072.84
	Land - Right of use			1,474.50		1,474.50	1,474.50	1,478.24	1,478.24
1.2	Rehabilitation & Resettlement (R&R)			13,827.97		13,827.97	13,827.97	14,512.97	14,512.97
1.3	Preliminary Investigation & Site Development	204.00	Incl. in above	Incl. in above	Incl. in above	Incl. in above	Incl. in above	Incl. in above	Incl. in above
	<b>Total Land &amp; Site Development</b>	<b>36,984.00</b>	<b>30,300.00</b>	<b>24,977.94</b>	<b>4,605.28</b>	<b>22,861.98</b>	<b>28,088.82</b>	<b>27,207.12</b>	<b>27,793.23</b>
<b>2</b>	<b>Plant &amp; Equipment</b>								
2.1	Steam Generator Island	2,73,964.24	2,91,500.00	2,25,985.85	20,478.25	2,40,420.98	2,43,161.10	2,55,744.95	2,60,007.98
2.2	Turbine Generator Island	1,55,305.04	1,54,100.00	1,17,880.78	9,981.20	1,21,646.98	1,27,761.32	1,33,127.22	1,37,226.09
2.3	BOP Mechanical					-	-	-	-
2.3.1	External water supply system	15,374.00	12,200.00	9,894.45	1,236.95	10,039.95	10,039.01	10,039.01	10,101.42
2.3.2	CW system	7,223.25	3,000.00	5,253.04	1,566.86	5,996.83	6,046.74	6,107.65	6,121.45
2.3.3	DH water Plant	3,651.54	4,200.00	3,011.62	483.07	3,327.44	3,437.33	3,473.75	3,483.03
2.3.4	Clarification plant	178.78	200.00	78.79	47.83	162.25	171.15	171.15	171.15
2.3.5	Chlorination Plant	Included in Item 2.3.3	Included in Item 2.3.3			-	-	-	-
2.3.6	ClO2		850.00						
2.3.7	Fuel Handling & Storage system	1,033.95	1,200.00	794.75	139.03	881.92	908.28	954.60	977.04
2.3.8	Ash Handling System	22,544.28	25,000.00	16,873.45	2,021.59	19,423.72	20,249.87	20,792.06	21,736.13
2.3.9	Coal Handling Plant	47,593.48	52,500.00	39,631.82	3,961.33	41,741.71	42,176.41	44,248.12	45,958.28
2.3.10	Rolling Stock and Locomotives	1,929.04	2,000.00	1,907.78		1,907.78	1,907.78	1,907.78	1,907.78
2.3.11	MOR					-	-	-	-
2.3.12	Air Compressor System	1,184.09	1,400.00	1,058.20	120.93	1,095.07	1,127.95	1,152.22	1,161.64
2.3.13	Air Condition & Ventilation System	2,391.06	2,600.00	1,771.88	287.77	2,011.87	2,095.71	2,149.22	2,191.34
2.3.14	Fire fighting System	2,391.06	2,600.00	1,630.73	209.80	2,023.83	2,112.88	2,127.29	2,162.43
2.3.15	HP/LP Piping	Included in sl. No. 2.1 and 2.2	Included in sl. No. 2.1 and 2.2			-	-	-	-
2.3.16	FGO system, if any	60,416.00	62,200.00			-	-	-	57,938.06
2.3.17	De-salination plant for sea-water intake	Not applicable	Not applicable			-	-	-	-
2.3.18	External coal handling in Jetty, if any	Not applicable	Not applicable			-	-	-	-
	<b>Total BOP Mechanical</b>	<b>1,63,830.43</b>	<b>1,75,000.00</b>	<b>61,708.35</b>	<b>10,188.76</b>	<b>68,475.77</b>	<b>69,370.71</b>	<b>69,120.85</b>	<b>1,53,487.89</b>
<b>2.4</b>	<b>BOP Electrical</b>								
2.4.1	Switch Yard Package	31,859.17	38,000.00	27,390.51	3,568.43	31,034.21	32,142.93	33,271.25	33,489.89
2.4.2	Transformer Package								
2.4.3	Switch gear Package	Included in sl. No. 2.4.1	Included in sl. No. 2.4.1			-	-	-	-
2.4.4	Cables, Cable facilities & grounding	3,117.00	Incl. in above	58.69		58.69	58.69	58.69	58.69
2.4.5	Lighting	Included in sl. No. 2.4.1	Included in sl. No. 2.4.1			-	-	-	-
2.4.6	Emergency D/G. set	Included in sl. No. 2.4.1	Included in sl. No. 2.4.1			-	-	-	-
	<b>Total BOP Electrical</b>	<b>34,976.17</b>	<b>38,000.00</b>	<b>27,449.20</b>	<b>3,568.43</b>	<b>31,092.92</b>	<b>32,201.63</b>	<b>33,329.95</b>	<b>33,538.58</b>
<b>2.5</b>	<b>Control &amp; Instrumentation (C &amp; I) Package</b>	<b>5,806.86</b>	<b>7,500.00</b>	<b>5,202.65</b>	<b>877.42</b>	<b>6,423.94</b>	<b>6,522.96</b>	<b>6,146.86</b>	<b>6,580.75</b>
<b>2.6</b>	<b>Automatic Generation Control</b>					-	-	17.46	17.88
<b>2.7</b>	<b>Contractors' F&amp;RV charged to P&amp;L</b>	Incl. in above packages	Incl. in above packages			748.76	870.96	915.10	988.34
	<b>Total Plant &amp; Equipment excluding taxes &amp; Duties</b>	<b>6,33,882.74</b>	<b>6,66,150.00</b>	<b>4,98,234.83</b>	<b>44,892.18</b>	<b>4,92,808.27</b>	<b>5,00,568.11</b>	<b>5,22,802.24</b>	<b>5,91,824.51</b>
	<b>Taxes &amp; Duties in Plant &amp; Equipment</b>			50,538.74		50,538.74	50,538.74	50,538.74	50,538.74
	<b>Total Plant &amp; Equipment including taxes &amp; Duties</b>	<b>6,33,882.74</b>	<b>6,66,150.00</b>	<b>5,08,773.56</b>	<b>44,892.18</b>	<b>5,43,347.01</b>	<b>5,51,106.84</b>	<b>5,73,340.98</b>	<b>6,42,363.24</b>
<b>3</b>	<b>Initial Spares</b>	<b>24,000.00</b>	<b>28,500.00</b>	<b>7,366.99</b>	<b>5,239.85</b>	<b>14,286.39</b>	<b>16,085.61</b>	<b>20,507.40</b>	<b>25,380.72</b>
<b>4</b>	<b>Civil Works</b>								
4.1	Main plant/Adm. Building	50,308.05	48,500.00	35,970.50	3,577.58	37,499.74	38,229.73	39,308.87	39,750.11
4.2	CW system	1,566.03	10,200.00	1,494.11	177.29	1,501.24	1,529.41	1,582.89	1,582.89
4.3	Cooling Towers	7,497.29	7,700.00	7,008.50	272.61	7,571.78	7,469.35	7,484.38	7,542.46
4.4	DH water Plant	Included in sl. No. 2.3.3	Included in sl. No. 2.3.3			-	-	-	-

**Khargone STPS**  
**Break-up of Investment Approval Cost and Revised Cost Estimate (RCE) vis-à-vis actual capital expenditure**

(Amount in Rs Lakh)

Sl. No.	Break Down	As per Original Estimates as per Investment Approval	As per Approved RCE	Capital Expenditure up to COD of Unit-2 (04.04.2020) (Cash Basis)	Liabilities /Provisions as on COD of Unit-2	Capital Expenditure (cash basis) as on 31.3.2021	Capital Expenditure (cash basis) as on 31.3.2022	Capital Expenditure (cash basis) as on 31.3.2023	Capital Expenditure (cash basis) as on 31.3.2024
4.5	Clarification plant	included in sl. No. 2.3.4	included in sl. No. 2.3.4			-	-	-	-
4.6	Chlorination plant	included in sl. No. 2.3.3 / 2.3.5	included in sl. No. 2.3.3 / 2.3.5			-	-	-	-
4.7	Fuel handling & Storage system	included in sl. No. 2.3.6	included in sl. No. 2.3.6			-	-	-	-
4.8	Coal Handling Plant	included in sl. No. 2.3.8	included in sl. No. 2.3.8			-	-	-	-
4.9	Railway Siding & Marshalling Yard	1,10,590.00	1,77,108.00	1,32,394.17	10,518.50	1,41,298.44	1,50,717.87	1,58,890.08	1,57,774.27
4.10	Ash Handling System	included in sl. No. 2.3.7	included in sl. No. 2.3.7			-	-	-	-
4.11	Ash disposal area development	19,260.00	18,800.00	11,911.19	718.40	13,319.40	15,531.02	15,854.85	15,087.14
4.12	Fire fighting System	800.04	800.00	128.58	103.90	285.87	319.04	338.11	340.36
4.13	Township & Colony	48,387.00	31,800.00	11,835.85	517.79	19,888.98	22,083.48	26,223.39	20,313.17
4.14	Temp. construction & enabling works	10,485.00	incl. in respective heads			-	-	-	-
4.15	Road & Drainage	5,387.88	5,480.00	2,078.55	398.82	2,797.61	3,728.62	4,254.97	4,474.76
	<b>Total Civil works</b>	<b>2,61,338.28</b>	<b>2,96,896.00</b>	<b>2,00,386.25</b>	<b>18,264.89</b>	<b>2,23,769.03</b>	<b>2,38,577.52</b>	<b>2,31,715.52</b>	<b>2,58,764.17</b>
	<b>Taxes &amp; Duties in Civil Works</b>			<b>9,489.35</b>		<b>9,489.35</b>	<b>9,489.35</b>	<b>9,489.35</b>	<b>9,489.35</b>
	<b>Total civil works (incl. taxes &amp; duties)</b>	<b>2,61,338.28</b>	<b>2,96,896.00</b>	<b>2,11,775.60</b>	<b>18,264.89</b>	<b>2,33,258.41</b>	<b>2,48,066.87</b>	<b>2,41,204.87</b>	<b>2,68,253.52</b>
5	<b>Construction &amp; Pre-Commissioning Expenses</b>								
5.1	Erection, Testing and commissioning					-	-	-	-
5.2	Site supervision					-	-	-	-
5.3	Operator's Training					-	-	-	-
5.4	Construction Insurance					-	-	-	-
5.5	Tools & Plant	2,212.00	2,000.00	705.38		830.59	830.59	1,778.58	1,838.13
5.6	Start up fuel	4,480.00	33,335.00	33,275.41	-	33,275.41	33,275.41	33,275.41	33,275.41
	<b>Total Construction &amp; Pre-Commissioning Expenses</b>	<b>6,692.00</b>	<b>35,335.00</b>	<b>33,980.79</b>	<b>-</b>	<b>34,106.01</b>	<b>34,106.01</b>	<b>35,053.99</b>	<b>35,113.54</b>
6	<b>Overheads</b>								
6.1	Establishment	44,548.00	48,814.00	43,931.20		44,809.22	44,354.79	45,369.48	47,504.04
6.2	Integrated Security System					-	-	-	-
6.3	Design & Engineering					-	-	-	-
6.4	Audit & Accounts					-	-	-	-
6.5	MBOA	included in respective heads	included in respective heads	included in respective heads		883.58	1,801.20	2,291.83	3,318.29
	<b>Total Overheads</b>	<b>44,548.00</b>	<b>48,814.00</b>	<b>43,931.20</b>	<b>-</b>	<b>45,692.71</b>	<b>46,155.99</b>	<b>47,661.31</b>	<b>50,822.33</b>
7	Arbitration L&T						1,874.00	1,874.00	1,874.00
8	Arbitration Railway							-	303.80
9	<b>Total Capital cost excluding IDC &amp; FC</b>	<b>10,08,023.00</b>	<b>11,03,755.00</b>	<b>8,31,025.79</b>	<b>71,022.20</b>	<b>8,96,354.51</b>	<b>9,24,804.14</b>	<b>9,67,335.65</b>	<b>10,48,902.38</b>
10	<b>IDC, FC, FERV &amp; Hedging Cost</b>								
10.1	Interest During Construction (IDC)	1,43,918.00	1,02,882.00	98,528.19		99,588.15	99,690.67	99,989.14	1,05,312.89
10.2	Financing Charges (FC)	5,438.00	-			-	-	-	-
10.3	Foreign Exchange Rate Variation (FERV) on Loan		31,889.00	10,852.47		10,852.47	10,852.47	10,852.47	10,852.47
10.4	Loan FERV charged to P&L			20,897.07		20,897.07	20,897.07	20,897.07	20,897.07
10.5	Hedging Cost (incl. in 8.1)								
11	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>	<b>1,49,356.00</b>	<b>1,34,771.00</b>	<b>1,29,425.73</b>	<b>-</b>	<b>1,31,337.69</b>	<b>1,31,440.20</b>	<b>1,31,818.68</b>	<b>1,37,062.42</b>
12	Working Capital Margin	27,221.00	28,221.00						
13	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>	<b>11,82,598.00</b>	<b>12,64,497.00</b>	<b>9,59,301.52</b>	<b>71,022.20</b>	<b>10,27,692.20</b>	<b>10,56,244.34</b>	<b>10,99,154.33</b>	<b>11,86,964.80</b>

**Notes:**

- Railway Siding at Sl. No. 4.9 above includes advance of Rs 487 Crores paid to Railway for gauge conversion.
- Capital expenditure up to COD of Unit-2 against individual heads is exclusive of taxes & duties, while capital expenditure indicated as above for each of closing of FYs is based on additional capital expenditure after U-2 COD, which is inclusive of taxes & duties.
- IDC and FC in capitalisation of P&L of U-1 is part of IDC and FC indicated at Sl. No. 8.1 and 10.1 respectively and have been shown in FY 23-24, though capitalised as per books in FY 22-23, as explained in Form-9 of Appendix I for FY 23-24.
- MBOAs up to Station COD are included in respective heads and figures indicated as on subsequent dates indicate MBOAs capitalised after Station COD during respective periods.

### Impact of COVID-19 on Additional Capitalization works of Khargone STPS

- a. It is submitted that COD of Unit-1 of the instant Station was achieved on 01.02.2020 while that of Unit-2, i.e. Station COD was achieved on 04.04.2020. Accordingly, in terms of Regulation 3(14) of 2019 Tariff Regulations, cut-off date to complete the works under original scope is 30.04.2023, i.e. in FY 23-24.
- b. It is pertinent to note that the Year 2020 witnessed an unprecedented health and humanitarian crisis because of Novel Coronavirus ("Covid-19") around the Globe. The various restrictions being imposed concerning the Covid-19 and the social, economic and health repercussions of the Covid-19 situation resulted into severe adverse impact on the performance of industrial activities including the power plants under construction in India.
- c. Covid-19 started making its presence felt in India since March 2020. To minimize the health impact of Covid-19, Govt. took several protective, preventive and mitigating measures starting with progressive tightening of international travel, issue of advisories for the members of public, setting up quarantine facilities, contact tracing of persons infected by the virus and various social distancing measures. In fact, a nationwide lockdown was announced by the Govt. of India (GoI) w.e.f. 25.03.2020. Evidently, in spite of the grave challenges faced, the Petitioner undertook arduous efforts to declare COD of the Station on 04.04.2020 and subsequently was able to serve the beneficiaries with essential supply of power. However, the construction/ erection/ supply/ installation works involved in the balance works under the original scope, i.e. Additional Capitalization works, were impacted to a huge extent as brought out below.
- d. It is submitted that COVID-19 since its onset in January 2020 in China and subsequent worldwide rapid spread, created a global crisis of unprecedented level. It turned out to be not only a health crisis of immense proportion but one that affected social and economic order in a way rarely witnessed before. The severity of the impact on economy can be gauged from the fact that the Indian economy contracted by about 8% in the FY 20-21, a very rare occurrence for a country witnessing generous positive economic growth for last several years. The fall in industrial activity owing to various restrictions imposed to contain the pandemic was sole reason behind the negative economic growth.
- e. The Petitioner was able to declare COD of the Station on 04.04.2020 against scheduled COD on 31.01.2020, i.e. with a minimal delay of about 02 months, however, the Petitioner's efforts to achieve completion of additional capitalization works within cut-off date were curtailed heavily owing to onset of COVID-19 in India since March 2020.
- f. In fact, even before COVID-19 outbreak started in India, it had already spread in China and GoI, vide OM No. F.18/4/2020-PPD dated 19.02.2020 clarified that disruption of supply chain due to COVID-19 will be covered under Force Majeure Clause (FMC). A True Copy of the said Notification dated 19.02.2020 issued by Government of India, Ministry of Finance, Department of Expenditure is **attached underneath**.
- g. It is submitted that during the nationwide lockdown imposed since March 2020 to mitigate the impact of COVID-19, the construction works in the instant Station for completion of balance works came to a complete standstill in all the areas such as EPC package works for Main Plant and Balance of Plant (BoP), FGD package, Township, Ash Dyke, Railway Siding works, etc. The contracting agencies executing these works such as M/s L&T, M/s JMC, etc. issued Force

Majeure notices to the petitioner citing the complete stoppage of works on account of restrictions imposed by the Gol. A True Copy of Ministry of Home Affairs order dated 24.03.2020, including guidelines to be followed during lockdown is **attached underneath**.

- h. The Nationwide Lockdown imposed initially for a period of 21 days w.e.f. from 25.03.2020 by the Ministry of Home Affairs (MHA), Gol, was extended, further in the following manner:

Phase 1 Lockdown	25.03.2020 to 14.04.2020
Phase 2 Lockdown	15.04.2020 to 03.05.2020
Phase 3 Lockdown	04.05.2020 to 17.05.2020
Phase 4 Lockdown	18.05.2020 to 31.05.2020

- i. It is submitted that the Petitioner readily tried to resume works as relaxation was provided by unlocking of lockdown in a phased manner by Gol since June 2020. However, several restrictions including containment zones continued to be there in the State thereby severely affecting the movement of labour/ material/ machinery and impacting the progress of works at the instant Station. Also, most of the migratory labourers who had left the site were not ready to come back even after gradual unlocking of lockdown due to continuing grave threat of getting infected by the COVID-19 pandemic. Also, different State governments introduced different measures to ensure safe movement of contract labour which restricted the efforts of the Petitioner to improve manpower strength at site.
- j. Further, although subsequently the COVID-19 restrictions were relaxed and manufacturing plants started to resume operations, the equipment/ material manufacturers were faced with huge backlog as manufacturing operations could resume only with limited workforce resulting into continued delay in delivery of equipment/material including cement, steel, sand, construction finishing items, machinery, etc.
- k. Pertinently, recognizing COVID-19 situation as an extraordinary event, beyond human control and taking note of limitations placed on movement of men and material as per Central/State govt guidelines leading to impairment of various contractual obligations by parties, Ministry of Finance, Gol issued Office Memorandum No. F. 18/4/2020-PPD dated 13.05.2020 vide which COVID-19 situation was treated as a Force Majeure event and extension in completion of works from three to six months was allowed without imposition of any cost or penalty. A True Copy of Office Memorandum dated 13.05.2020 issued by Gol, Ministry of Finance is **attached underneath**.
- l. It is further submitted that Ministry of Finance OM dated 13.05.2020 was issued keeping in mind the COVID situation at that point of time. However, the COVID-19 cases in the State of Madhya Pradesh as all over India continued to rise and in fact the peak number of daily cases in the 1<sup>st</sup> wave of COVID-19 were recorded around mid-September. It was only by December 2020 – January 2021 that the COVID-19 cases started to drop.
- m. It is further submitted that even when the impact of 1<sup>st</sup> wave of COVID-19 had not subsided completely, the 2nd wave of COVID-19 struck India with a recurrence and rise in number of COVID-19 cases from February 2021 onwards. In fact, the number of daily new cases peaked

around April'21-May'21, which even surpassed the previous peak witnessed in September 2020 during 1<sup>st</sup> wave.

- n. It is submitted that the cases of infected persons in 2<sup>nd</sup> wave of COVID-19 continued to rise at a rapid pace. Also, the number of deaths reported due to COVID-19 were much higher in the 2<sup>nd</sup> wave compared to the 1<sup>st</sup> wave. To contain the spread of virus and break the chain of transmission, strict lockdown and several restrictions were further imposed by the Govt/ State Govt.
- o. It is pertinent to note that as lockdown was announced during 2<sup>nd</sup> wave, the migratory labours, who had started to come back after receding of 1<sup>st</sup> wave, once again started leaving the State thereby aggravating the existing problem of local manpower shortage being witnessed since 1<sup>st</sup> wave of COVID-19.
- p. It is also noteworthy that due to rising number of cases of COVID leading to high requirement of oxygen and consequentially its shortage in Govt/Private Hospitals in the State, the agencies working at the Station faced acute oxygen availability to execute various works. Further, keeping in view the rapid rise in COVID cases and resultant rapid demand for medical Oxygen, the Govt. of India reviewed the supply of oxygen for industrial use in order to divert the same to meet the rising demand for medical oxygen in the country and save precious lives. Accordingly, Govt. vide Notification No. 40-6/2020-DM-I(A)/Pt(2) prohibited the supply of Oxygen for industrial purposes by manufacturers and suppliers forthwith from 22.01.2021 till further orders. In view of acute shortage of industrial oxygen owing to above reasons, several ongoing works involving fabrication and erection of structural steel in works such as AHP, CHP, Main Plant, FGD package, Township, etc. in the instant Station could not be executed. The said Notification is **attached underneath**.
- q. It is submitted that in spite of taking best preventive measures and initial vaccination, several employees of the Petitioner and contractors' manpower got infected from COVID-19 and some even succumbed to death. Due to such precarious and unprecedented situation, the progress of Add Cap works of the instant Station suffered extensively during March'21 to Aug'21 due to 2<sup>nd</sup> wave of COVID-19 and even afterwards as the situation unfolded and the normalcy began to resume with caution, it took reasonable time to resume the level of progress of works to pre-COVID levels.
- r. A true copy of various letters issued by the contracting agencies of the instant Station citing significant impact on progress of works due to precedent and uncontrollable force majeure event of COVID-19 pandemic, during its 1<sup>st</sup> and 2<sup>nd</sup> wave, as well as various circulars/ notifications issued by the Govt. of Madhya Pradesh imposing restrictions thereby affecting the progress of Add Cap works of the instant Station, are **attached underneath**.
- s. It is humbly submitted that right since the onset of COVID-19 in India, the Petitioner took extensive measures to prevent the occurrence and spread of COVID-19 among its employees and their family members and contractual workforce engaged at its various power stations including the instant Station. Some critical measures that were adopted are as follows:
  - i. Thermal scanning of persons at the entry gate
  - ii. Issuing gate pass to workers only after medical examination.
  - iii. Quarantining workers coming from outside the district.

- iv. Strict adherence to wearing masks and social distancing measures.
  - v. Placing of hand sanitizers and wash basins across multiple locations within the premises including regular sanitization of work places.
  - vi. Organizing regular awareness sessions on COVID-19
  - vii. Ensuring round the clock availability of Ambulance (Basic and Advance life support).
  - viii. Strengthening of medical facilities at its own hospitals including facility for testing of COVID-19.
  - ix. Adhering to guidelines issued by Central/State Government from time to time.
- t. However, in spite of best efforts of the Petitioner to minimize the impact of COVID-19 on work progress as detailed above, the works remained either completely standstill or under severely curtailed progress in the Year 2020 (from Mar'20 onwards) and in 2021 due to impact of COVID-19 as described above in detailed and summarized below:
- i. Nationwide lockdown imposed by Govt and prohibitory orders by State Govt of Madhya Pradesh restricting movement of men, material and equipment
  - ii. Severe impact on supply chain logistics due to various restrictions
  - iii. Severe impact on manufacturing operations leading to delay in supply of construction material such as cement, steel, etc. and Plant machinery/equipment
  - iv. Exodus of migratory manpower and restrictions on entry of manpower from other States
  - v. Local manpower shortage due to high number of COVID-19 infections in the State
  - vi. Loss of manpower workdays due to quarantine
  - vii. Strict social distancing measures at site leading to reduced labour productivity
- u. It is also pertinent to note that the Hon'ble Commission in its plethora of Orders such as Order dated 19.05.2024 in 183/GT/2020 (for Meja STPS), Order dated 02.08.2024 in Petition No 145/GT/2019 (Lara STPS), etc. has considered COVID-19 as a force majeure event and an uncontrollable event. Further, the Hon'ble Commission vide Order dated 02.08.2024 in 246/GT/2021 (Solapur STPS), 04.03.2023 in 423/GT/2020, Order dated 02.08.2024 in Petition No 246/GT/2021, etc. has allowed completion of works under original scope beyond cut-off date on account of various uncontrollable factors including COVID-19.

In view of the above, it is humbly prayed that the Hon'ble Commission may be pleased to allow projected capitalization of works under original scope, as submitted in Form-9 of Appendix-I for FY 24-25, in terms of Regulation 25(1) and exercising its power under Regulation 102 (Power to Relax) and Regulation 103 (power to remove difficulty) of Tariff Regulations, 2024.

No.F.18/4/2020-PPD  
Government of India  
Ministry of Finance  
Department of Expenditure  
Procurement Policy Division  
\*\*\*\*\*

Room No.512, Lok Nayak Bhavan,  
New Delhi dated the 19<sup>th</sup> February, 2020.

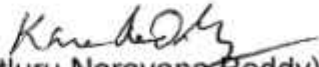
**OFFICE MEMORANDUM**

**Subject: Force Majeure Clause (FMC)**

Attention is invited to para 9.7.7 of the "Manual for Procurement of Goods, 2017" issued by this Department, which is reproduced as under:

*A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like **anatural calamity**) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/ seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party's non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (Ninety) days, either party may at its option terminate the contract without any financial repercussion on either side.*

2. A doubt has arisen if the disruption of the supply chains due to spread of corona virus in China or any other country will be covered in the Force Majeure Clause (FMC). In this regard it is clarified that it should be considered as a case of natural calamity and FMC may be invoked, wherever considered appropriate, following the due procedure as above.

  
(Kotluru Narayana Reddy)  
Deputy Secretary to the Govt. of India  
Tel.No.24621305  
Email: kn.reddy@gov.in

To,

Secretaries of all Central Government Ministries/ Departments

**No. 40-3/2020-DM-I(A)**  
**Government of India**  
**Ministry of Home Affairs**

North Block, New Delhi-110001

Dated 24<sup>th</sup> March, 2020

**ORDER**

Whereas, the National Disaster Management Authority (NDMA), is satisfied that the country is threatened with the spread of COVID-19 epidemic, which has already been declared as a pandemic by the World Health Organisation, and has considered it necessary to take effective measures to prevent its spread across the country and that there is a need for consistency in the application and implementation of various measures across the country while ensuring maintenance of essential services and supplies, including health infrastructure;

Whereas in exercise of the powers under section 6(2)(i) of the Disaster Management Act, 2005, the National Disaster Management Authority (NDMA), has issued an Order no. 1-29/2020-PP (Pt.II) dated 24.03.2020 (Copy enclosed) directing the Ministries/ Departments of Government of India, State/Union Territory Governments and State/ Union Territory Authorities to take effective measures so as to prevent the spread of COVID-19 in the country;

Whereas under directions of the aforesaid Order of NDMA, and in exercise of the powers, conferred under Section 10(2)(I) of the Disaster Management Act, the undersigned, in his capacity as Chairperson, National Executive Committee, hereby issues guidelines, as per the Annexure, to Ministries/ Departments of Government of India, State/Union Territory Governments and State/ Union Territory Authorities with the directions for their strict implementation. This Order shall remain in force, in all parts of the country for a period of 21 days with effect from 25.03.2020.

  
24/3/2020  
Home Secretary

To

1. The Secretaries of Ministries/ Departments of Government of India
2. The Chief Secretaries/Administrators of States/Union Territories  
(As per list attached)

Copy to:

- i. All members of the National Executive Committee.
- ii. Member Secretary, National Disaster Management Authority.

**Guidelines on the measures to be taken by Ministries/ Departments of Government of India, State/Union Territory Governments and State/ Union Territory Authorities for containment of COVID-19 Epidemic in the Country.**

1. Offices of the Government of India, its Autonomous/ Subordinate Offices and Public Corporations shall remain closed.

*Exceptions:*

Defence, central armed police forces, treasury, public utilities (including petroleum, CNG, LPG, PNG), disaster management, power generation and transmission units, post offices, National Informatics Centre, Early Warning Agencies

2. Offices of the State/ Union Territory Governments, their Autonomous Bodies, Corporations, etc. shall remain closed.

*Exceptions:*

- a. Police, home guards, civil defence, fire and emergency services, disaster management, and prisons.
- b. District administration and Treasury
- c. Electricity, water, sanitation
- d. Municipal bodies—Only staff required for essential services like sanitation, personnel related to water supply etc

*The above offices (Sl. No 1 & 2) should work with minimum number of employees. All other offices may continue to work-from-home only.*

3. Hospitals and all related medical establishments, including their manufacturing and distribution units, both in public and private sector, such as dispensaries, chemist and medical equipment shops, laboratories, clinics, nursing homes, ambulance etc. will continue to remain functional. The transportation for all medical personnel, nurses, para-medical staff, other hospital support services be permitted.

4. Commercial and private establishments shall be closed down.

*Exceptions:*

- a. Shops, including ration shops (under PDS), dealing with food, groceries, fruits and vegetables, dairy and milk booths, meat and fish, animal fodder. However, district authorities may encourage and facilitate home delivery to minimize the movement of individuals outside their homes.
- b. Banks, insurance offices, and ATMs.
- c. Print and electronic media
- d. Telecommunications, internet services, broadcasting and cable services. IT and IT enabled Services only (for essential services) and as far as possible to work from home.
- e. Delivery of all essential goods including food, pharmaceuticals, medical equipment through E-commerce

- f. Petrol pumps, LPG, Petroleum and gas retail and storage outlets.
- g. Power generation, transmission and distribution units and services.
- h. Capital and debt market services as notified by the Securities and Exchange Board of India
- i. Cold storage and warehousing services.
- j. Private security services

All other establishments may work-from-home only.

5. Industrial Establishments will remain closed.

Exceptions:

- a. Manufacturing units of essential commodities.
- b. Production units, which require continuous process, after obtaining required permission from the State Government

6. All transport services – air, rail, roadways – will remain suspended.

Exceptions:

- a. Transportation for essential goods only.
- b. Fire, law and order and emergency services.

7. Hospitality Services to remain suspended

Exceptions:

- a. Hotels, homestays, lodges and motels, which are accommodating tourists and persons stranded due to lockdown, medical and emergency staff, air and sea crew.
- b. Establishments used/ earmarked for quarantine facilities.

8. All educational, training, research, coaching institutions etc. shall remain closed.

9. All places of worship shall be closed for public. No religious congregations will be permitted, without any exception.

10. All social/ political/ sports/ entertainment/ academic/ cultural/ religious functions / gatherings shall be barred.

11. In case of funerals, congregation of not more than twenty persons will be permitted.

12. All persons who have arrived into India after 15.02.2020, and all such persons who have been directed by health care personnel to remain under strict home/ institutional quarantine for a period as decided by local Health Authorities, failing which they will be liable to legal action under Sec. 188 of the IPC.

13. Wherever exceptions to above containment measures have been allowed, the organisations/employers must ensure necessary precautions against COVID-19



virus, as well as social distance measures, as advised by the Health Department from time to time.

14. In order to implement these containment measures, the District Magistrate will deploy Executive Magistrates as Incident Commanders in the respective local jurisdictions. The Incident Commander will be responsible for the overall implementation of these measures in their respective jurisdictions. All other line department officials in the specified area will work under the directions of such incident commander. The Incident Commander will issue passes for enabling essential movements as explained.
15. All enforcing authorities to note that these strict restrictions fundamentally relate to movement of people, but not to that of essential goods.
16. The Incident Commanders will in particular ensure that all efforts for mobilisation of resources, workers and material for augmentation and expansion of hospital infrastructure shall continue without any hindrance.
17. Any person violating these containment measures will be liable to be proceeded against as per the provisions of Section 51 to 60 of the Disaster Management Act, 2005, besides legal action under Sec. 188 of the IPC (as per Appendix).
18. The above containment measures will remain in force, in all parts of the country, for a period of 21 days with effect from 25.03.2020.

  
24/3/2020  
Union Home Secretary

**:: संशोधित आदेश ::**

**( दण्ड प्रक्रिया संहिता 1973 की धारा-144 के अन्तर्गत )**

**{ पारित दिनांक 24/03/2020 }**


विश्व स्वास्थ्य संगठन (WHO) द्वारा कोरोना वायरस रोग के फैलने की गंभीर स्थिति को देखते हुए महामारी (Pandemic) घोषित किया गया है। मध्यप्रदेश शासन, लोक स्वास्थ्य एवं परिवार कल्याण विभाग के पत्र क्रमांक एफ 10-02/2020/सत्रह/मेडी-2 दिनांक 07 मार्च 2020 के परिपेक्ष्य में मध्यप्रदेश पब्लिक हेल्थ एक्ट 1949 अन्तर्गत नोवेल कोरोना वायरस बीमारी अधिसूचित की जा चुकी है। मुख्य चिकित्सा एवं स्वास्थ्य अधिकारी खरगोन ने अपने प्रतिवेदन में जिले को लोक हित में लॉक डाउन करने का अनुरोध किया है। मध्यप्रदेश शासन द्वारा जारी निर्देश एवं मध्यप्रदेश पब्लिक हेल्थ एक्ट 1949 के उपबंध के परिपेक्ष्य में नोवेल कोरोना वायरस के संक्रमण से स्वास्थ्य एवं जीवन की सुरक्षा के खतरे की उत्पन्न स्थिति एवं इन परिस्थितियों को दृष्टिगत रखते हुए जन सामान्य के स्वास्थ्य की सुरक्षा एवं लोक शांति बनाए रखने के लिए खरगोन जिले की सम्पूर्ण राजस्व सीमा क्षेत्र में, मैं गोपाल चन्द्र डाड, जिला दण्डाधिकारी, जिला खरगोन म.प्र. दण्ड प्रक्रिया संहिता 1973 की धारा 144 के अंतर्गत निम्नानुसार प्रतिबंधात्मक आदेश जारी करता हूँ :-

1. जिले में तत्काल प्रभाव से दिनांक 31/03/2020 के रात्रि 12 बजे तक टोटल लॉक डाउन घोषित किया जाता है, टोटल लॉक में किसी भी व्यक्ति को अपने घर से बाहर निकलने के अनुमति नहीं होगी।
2. जिले की सभी सीमाएं सील की जाती हैं, किसी भी माध्यम सड़क एवं रेल से जिले की सीमा में बाहरी लोगों का आगमन प्रतिबंधित किया जाता है। खरगोन जिले की सीमा से लगी महाराष्ट्र की सीमा से आने वाले प्रत्येक व्यक्ति की जानकारी समीपस्थ स्वास्थ्य केन्द्र पर देना एवं उनकी स्क्रीनिंग की जाना अनिवार्य होगा।
3. सम्पूर्ण जिले में म.प्र. व अन्य राज्यों के समस्त सार्वजनिक यात्री वाहनों तथा रोडवेज, लोक परिवहन सेवा, संविदा वाहन, प्रक्रम वाहन, टेक्सी, कैब, मेक्सी कैब तथा ऑटो रिक्शा आदि जिले से बाहर जाने एवं अंदर आने तथा जिले के भीतर संचालन को प्रतिबंधित किया जाता है।
4. जिले के निवासी यदि महत्वपूर्ण कार्य से बाहर गये हुए हैं उनके द्वारा प्रमाण प्रस्तुत करने पर स्वयं के वाहन से अपने निवास स्थान आने-जाने की अनुमति रहेगी।
5. जिले के समस्त राज्य शासन एवं केन्द्र शासन के शासकीय, अर्द्धशासकीय, अशासकीय कार्यालय बंद रहेंगे। अत्यावश्यक सेवा वाले विभाग यथा राजस्व, स्वास्थ्य, पुलिस, विद्युत, दूर संचार, नगरपालिका, पंचायत, कार्यालयों के लेखा शाखा (भुगतान, वेतन, मानदेय हेतु) इससे मुक्त रहेंगे।
6. दवा दुकानें, हॉस्पिटल तथा पेट्रोल पम्प को छोड़कर समस्त व्यावसायिक प्रतिष्ठान बंद रहेंगे।
7. समस्त लोक सेवा केन्द्र बंद रहेंगे।
8. एटीएम, एटीएम गार्ड, एटीएम में केश लोडिंग किये जाने वाले कर्मचारीगण इससे मुक्त रहेंगे, परन्तु इन्हें लगातार सेनेटाईज किया जाये।
9. समस्त धार्मिक स्थल में आमजन का प्रवेश प्रतिबंधित रहेगा। सामूहिक आरती, पूजा, तकरीर, लंगर, हवन, प्रवचन, प्रार्थना, सामूहिक भोज, भंडारे प्रतिबंधित रहेंगे। केवल इनके पूजारी, मौलवी, पादरी आदि को पूजा-अर्चना की छूट रहेगी।
10. आमजन के लिए थोक सब्जी मंडी से सब्जी एवं फल क्रय करना प्रतिबंधित रहेगा। थोक सब्जी मंडी से फुटकर सब्जी एवं फल विक्रेता प्रातः 05.00 बजे से 09.00 बजे तक क्रय कर अपने हाथ ठेलों में मोहल्ले में जाकर बेच सकेंगे।
11. समस्त निर्माण कार्यों को प्रतिबंधित किया जाता है।

  
24/3/2020

प्रतिलिपि:-

1. सचिव, मध्यप्रदेश शासन गृह विभाग मंत्रालय, भोपाल ।
2. आयुक्त इंदौर संभाग इंदौर।
3. पुलिस महानिरीक्षक, इंदौर रेंज इंदौर।
4. उप पुलिस महानिरीक्षक निमाड़ रेंज खरगोना
5. पुलिस अधीक्षक, जिला खरगोन की ओर आवश्यक कार्यवाही हेतु प्रेषित ।
6. मुख्य कार्यपालन अधिकारी जिला पंचायत खरगोन की ओर भेजकर लेख है कि आदेश की मुनादी/चस्पादगी जिले की समस्त ग्राम पंचायतों में उचित माध्यम से करावे।
7. मुख्य चिकित्सा एवं स्वास्थ्य अधिकारी खरगोन की ओर आवश्यक कार्यवाही हेतु ।
8. अनुविभागीय दण्डाधिकारी, (समस्त).....जिला खरगोन ।
9. अनुविभागीय अधिकारी, (पुलिस) (समस्त).....जिला खरगोन ।
10. परियोजना अधिकारी, शहरी विकास अभिकरण, खरगोन की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु ।
11. सहायक संचालक, जनसंपर्क खरगोन की ओर भेजकर लेख है कि समस्त स्थानीय न्यूज पेपर में प्रकाशित कराने हेतु प्रेषित।
12. तहसीलदार/थाना प्रभारी (समस्त).....।
13. मुख्य नगरपालिका अधिकारी, (समस्त).....।
14. प्रभारी अधिकारी पुलिस कंट्रोल रूम खरगोना
15. सर्व संबंधित .....

  
24/3/2020  
जिला दंडाधिकारी  
जिला-खरगोन म.प्र.

No. F. 18/4/2020-PPD  
Government of India  
Ministry of Finance  
Department of Expenditure  
Procurement Policy Division

North Block, New Delhi  
New Delhi dated the 13<sup>th</sup> May, 2020

OFFICE MEMORANDUM

**Subject: Force Majeure Clause (FMC)**

Attention is invited to Department of Expenditure's O.M. No. 18/4/2020-PPD dated 19<sup>th</sup> February, 2020 on the invocation of Force Majeure Clause (FMC). Vide the O.M., it was clarified that disruption of supply chains due to spread of Coronavirus will be covered under FMC which could be invoked, wherever considered appropriate, following the due procedure as stated in para 9.7.7. of the Manual on Procurement of Goods.

2. Subsequent to issuance of the above referred O.M., further disruptions have affected transportation, manufacturing and distribution of goods and services in the country. Limitations placed on the movement of men and material as per the guidelines issued by the Ministry of Home Affairs (MHA) under the Disaster Management Act, 2005 (DM Act 2005) and the respective State and UT governments from time to time have severely impaired the fulfilment of contractual obligations for supply of goods, works and consultancy services (including other services), and affected the volume of vehicular traffic.


3. Attention in this regard is invited to para 9.7.7 of the "Manual for Procurement of Goods 2017", Para 6.4.2 of the "Manual for Procurement of Works 2019" and para 8.14.1 of the "Manual for Procurement of Consultancy and other Services 2017" issued by the Department of Expenditure. The above referred three Manuals recognize extraordinary events or circumstances beyond human control leading to delays in or non-fulfilment of contractual obligations. In a situation of such events happening, and after following due procedure, parties to the contract are allowed flexibility to invoke FMC following prescribed due procedure.

4. It is recognised that in view of the restrictions placed on the movement of goods, services and manpower on account of the lockdown situation prevailing overseas and in the country in terms of the guidelines issued by the MHA under the DM Act 2005 and the respective State and UT Governments, it may not be possible for the parties to the contract to fulfil contractual obligations. In respect of Public-private Partnership (PPP) concession contracts, a period of the contract may have become unremunerative. Therefore, after fulfilling due procedure and wherever applicable, parties to the contract may invoke FMC for all construction/works contracts, goods and services contracts and PPP contracts with Government Agencies and in such event, date for completion of contractual obligations which had to be completed on or after 20<sup>th</sup> February 2020 shall stand extended for a period not less than

*Kamlesh*

three months and not more than six months without imposition of any cost or penalty on the contractor/concessionaire. Concession period in PPP contracts ending on or after 20<sup>th</sup> February 2020 shall be extended by not less than three and not more than six months. The period of extension (between three and six months) may be decided based on the specific circumstances of the case and the period for which performance was affected by the *force majeure* events.

5. It is clarified that invocation of FMC would be held valid only in a situation where the parties to the contract were not in default of the contractual obligations as on 19<sup>th</sup> February, 2020. It is further clarified that invocation of FMC does not absolve all non-performances of a party to the contract, but only in respect of such non-performance as is attributable to a lockdown situation or restrictions imposed under any Act or executive order of the Government/s on account of COVID-19 global pandemic. It may be noted that, subject to above stated, all contractual obligations shall revive on completion of the period.

  
(Kotluru Narayana Reddy)  
Deputy Secretary to the Govt. of India  
Tel.No. : 24621305  
Email: kn.reddy@gov.in

To,  
Secretaries of all Central Government Ministries/Departments

अजय भल्ला, भा.प्र.से.  
AJAY BHALLA, IAS



गृह सचिव  
Home Secretary  
भारत सरकार  
Government of India  
नॉर्थ ब्लॉक/North Block  
नई दिल्ली/New Delhi

No. 40-6/2020-DM-I(A)/ Pt (2)

18<sup>th</sup> April, 2021

Dear Chief Secretaries,

Please refer to my DO letter of even no. dated 16<sup>th</sup> April 2021, whereby a supply plan of medical oxygen, prepared by the Empowered Group (EG)-II, which is mandated for coordinating medical logistics including oxygen, and required to be followed by all States/ UTs and concerned agencies, was shared.

2. Keeping in view the rapid rise in COVID cases and resultant rapid demand for medical Oxygen, particularly in high-burden States of Maharashtra, Madhya Pradesh, Gujarat, Delhi, Uttar Pradesh, Chhattisgarh, Karnataka, Kerala, Tamil Nadu, Haryana, Punjab, Rajasthan, etc., EG-II has reviewed the supply of oxygen for industrial use in order to divert the same to meet the rising demand for medical oxygen in the country and save precious lives. Accordingly, EG II has recommended to prohibit the supply of Oxygen for industrial purposes by manufacturers and suppliers forthwith from 22.04.2021 till further orders, with the exception of nine specified industries. The recommendation of the EG-II has been accepted by the Government and the said decision, alongwith the list of nine exempted industries, have been conveyed by Secretary, Ministry of Health & Family Welfare, vide his DO letter dated 18<sup>th</sup> April 2021 (copy enclosed).

3. I, therefore, urge you to issue necessary instructions to all the authorities concerned in your State to ensure compliance to the decision of EG-II and take necessary measures to prohibit supply of Oxygen for industrial purposes, except those exempted nine industries. It will help in augmenting supply for medical oxygen in the country and in saving precious lives.

With regards,

Encl: As above

Yours sincerely,

  
(Ajay Bhalla) 18/04/21

Chief Secretaries of All States



राजेश भूषण, आईएएस  
सचिव

**RAJESH BHUSHAN, IAS**  
SECRETARY

भारत सरकार  
स्वास्थ्य एवं परिवार कल्याण विभाग  
स्वास्थ्य एवं परिवार कल्याण मंत्रालय

Government of India  
Department of Health and Family Welfare  
Ministry of Health and Family Welfare

D.O. No.17/S(HFW)/MO/2021  
18<sup>th</sup> April 2021

The Empowered Group-II (EG-II) headed by Secretary, Department for Promotion of Industry & Internal Trade (DPIIT) is mandated by Govt. of India to manage requisite supplies of medical equipments, drugs including medical oxygen across the country in the wake of resurgence of COVID-19 cases. Medical oxygen is one life saving drug, whose supplies are being regularly monitored and managed by this Group.

2. There has been a significant surge in the demand for medical oxygen. Department for Promotion of Industry and Internal Trade (DPIIT) has conveyed that this has already reached about 60 percent of the total daily Oxygen production, and is expected to rise further.

3. While every effort is being made to meet the rising demand for medical oxygen, including augmenting daily production and stocks and States/UTs are taking appropriate steps for optimum and rationalized utilisation of available stock of oxygen, the present trend necessitates additional measures. The matter has been deliberated by the DPIIT with all the stakeholders and after due deliberations, it has been considered prudent to restrict industrial usage of oxygen to meet the rising demand for medical oxygen.

4. Accordingly, the EG-II has recommended that the supply of Oxygen for industrial purposes by manufacturers and suppliers be prohibited forthwith from 22.04.2021 till further orders. This recommendation has been accepted & the said prohibition on supply would come into effect from 22/04/2021.

5. The aforesaid prohibition, however, shall not apply to the supply of oxygen for the industries listed hereunder:

- i) Ampoules & Vials
- ii) Pharmaceutical
- iii) Petroleum refineries
- iv) Steel plants
- v) Nuclear energy facilities
- vi) Oxygen cylinder manufacturers
- vii) Waste water treatment plants
- viii) Food & water purification
- ix) Process industries which require uninterrupted operation of furnaces, processes, etc. as approved by respective State governments

6. The industrial units (other than those listed above) which would not be in a position to obtain oxygen are advised to consider alternate measures such as import of Oxygen or setting up their own Air Separator Units (ASU) for generation of Oxygen for their captive requirements.

.....contd/-

: 2 :


7. All Chief Secretaries are advised to ensure effective implementation & compliance of this Order.

Yours sincerely


  
(Rajesh Bhushan)

**Chief Secretary /Administrator  
All States/UTs**


Copy to : **Principal Secretary to PM** for information

  
(Rajesh Bhushan)

Copy to : **Cabinet Secretary** for information

  
(Rajesh Bhushan)

✓ Copy to : **Home Secretary** with the request to issue appropriate directions to States / UTs to facilitate effective implementation of the above Order.

  
(Rajesh Bhushan)

क्रमांक/ 5523 /सा.ले./2021

कार्यालय जिला दंडाधिकारी, जिला खरगोन (म.प्र.)

खरगोन, दिनांक 10/03/2021  
01-04-2021



(अंतर्गत धारा 144 दण्ड प्रक्रिया संहिता 1973)

अपर मुख्य सचिव, म.प्र.शासन गृह विभाग मंत्रालय, वल्लभ भवन भोपाल के पत्र क्रमांक एफ/35-09/2020/दो/सी-2 दिनांक 22.03.2021 एवं पत्र क्रमांक एफ/35-09/2020/दो/सी-2 दिनांक 24.03.2021 से जारी निर्देश एवं जिला आपदा प्रबंधन समिति की बैठक दिनांक 31.03.2021 को लिये गये निर्णय अनुसार कार्यालयीन जारी आदेश क्रमांक 5484-85/सा.ले./2021, दिनांक 31.03.2021 से जारी आदेश में आंशिक संशोधन करते हुए मैं एम.एल.कनेल, अपर जिला दण्डाधिकारी, खरगोन एतद द्वारा दण्ड प्रक्रिया संहिता 1973 की धारा 144 में प्रदत्त शक्तियों को प्रयोग में लाते हुए आगामी आदेश तक निम्नानुसार आदेश जारी करता हूँ :-

1. शहरी क्षेत्र खरगोन, बिस्टान, कसरावद, महेश्वर, मण्डलेश्वर, करही, सनावद बड़वाह एवं भीकनगांव में दिनांक 02.04.2021 शुक्रवार को रात्रि 8.00 बजे से दिनांक 05.04.2021 सोमवार प्रातः 6.00 बजे तक संपूर्ण लॉकडाउन रहेगा।

2. शासकीय/ अर्द्धशासकीय, बैंक, दूरसंचार कार्यालय चालु रहेंगे।

उक्त कार्यालयीन आदेश क्रमांक 5484-85/सा.ले./2021, दिनांक 31.03.2021 से जारी आदेश की शेष शर्तें यथावत लागू रहेगी।

यह आदेश आम जनता को संबोधित है। चूंकि वर्तमान मेरे समक्ष ऐसी परिस्थितियाँ नहीं हैं और न ही संभव है कि इस आदेश की पूर्व सूचना प्रत्येक व्यक्ति को दी जावे। अतः आदेश एक पक्षीय पारित किया जाता है। आदेश से व्यथित व्यक्ति दण्ड प्रक्रिया संहिता 1973 की धारा 144 (5) के अंतर्गत अधोहस्ताक्षरकर्ता के न्यायालय में आवेदन प्रस्तुत कर सकेगा। अत्यंत विशेष परिस्थितियों में अधोहस्ताक्षरकर्ता संतुष्ट होने पर आवेदक को किसी भी लागू शर्तों से छुट दे सकेगा। इस आदेश का उल्लंघन करने वाले व्यक्ति के विरुद्ध भारतीय दण्ड संहिता की धारा 188 के अंतर्गत कार्यवाही की जावेगी।

यह आदेश आज दिनांक 01/04/2021 को मेरे हस्ताक्षर एवं पदमुद्रा से जारी किया गया।  
उक्त आदेश आगामी आदेश तक प्रभावशील रहेगा।

(एम.एल.कनेल)  
अपर जिला दंडाधिकारी,  
जिला-खरगोन (म.प्र.)  
जिला-खरगोन (म.प्र.)


क्रमांक/ 5524 /सा.ले./2021

खरगोन, दिनांक 10/03/2021

01-04-2021

प्रतिलिपि:-

1. सचिव, मध्यप्रदेश शासन गृह (पुलिस) विभाग मंत्रालय, भोपाल ।
2. आयुक्त, इंदौर संभाग इंदौर ।
3. पुलिस महानिरीक्षक, इंदौर रेंज इंदौर ।
4. उप पुलिस महानिरीक्षक निमाइ रेंज खरगोन ।
5. पुलिस अधीक्षक, जिला खरगोन ।
6. मुख्य कार्यपालन अधिकारी जिला पंचायत खरगोन की ओर भेजकर लेख है कि आदेश की मुनादी /चस्पदगी जिले की समस्त ग्राम पंचायतों में उचित माध्यम से करावे ।
7. अपर जिला दंडाधिकारी, जिला खरगोन ।
8. अति.पुलिस अधीक्षक, जिला खरगोन ।
9. मुख्य चिकित्सा एवं स्वास्थ्य अधिकारी, खरगोन ।
10. अति.क्षेत्रीय परिवहन अधि.खरगोन की ओर उक्त आदेश का कढ़ाई से पालन कराया जाना सुनिश्चित करें ।
11. अनुविभागीय दंडाधिकारी (समस्त).....की ओर जारी आदेश का कढ़ाई से पालन कराया जाना सुनिश्चित करें ।
12. अनुविभागीय अधिकारी पुलिस( समस्त).....जिला खरगोन ।
13. तहसीलदार.....थाना प्रभारी (समस्त).....की ओर जारी आदेश का कढ़ाई से पालन कराया जाना सुनिश्चित करें ।
14. मुख्य नगरपालिका अधिकारी (समस्त).....।
15. सहायक संचालक, जनसंपर्क खरगोन की ओर समस्त स्थानीय न्यूज पेपर में प्रकाशित कराने हेतु प्रेषित।
16. स्टेनो टू कलेक्टर, खरगोन ।

  
 अपर जिला दंडाधिकारी,  
 जिला खरगोन (म.प्र.)

सर्वोच्च प्राथमिकता

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 07 अप्रैल, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा निर्देश ।

संदर्भ :- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09/2020  
/सी-2/दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021, 19 मार्च,  
2021, 22 मार्च, 2021, 24 मार्च, 2021, 26 मार्च, 2021 एवं 31  
मार्च, 2021

—00—

राज्य शासन द्वारा कोविड-19 महामारी के रोकथाम एवं बचाव के  
संबंध में दिनांक 30 अप्रैल 2021 तक के लिये निम्न अतिरिक्त दिशा-निर्देश  
जारी किये जाते हैं :-

- 1/ प्रदेश के समस्त नगरीय क्षेत्रों में प्रतिदिन रात्रि 10.00 बजे से सुबह  
06.00 बजे का रात्रिकालीन लॉकडाउन रहेगा ।
- 2/ प्रदेश के समस्त नगरीय क्षेत्रों में (दमोह को छोड़कर) शुक्रवार सांय  
06.00 बजे से सोमवार प्रातः 06.00 बजे तक लॉकडाउन प्रभावी  
रहेगा । दमोह नगर के सम्बन्ध में जिला निर्वाचन अधिकारी, दमोह  
द्वारा निर्णय लिया जावेगा ।
- 3/ छिन्दवाड़ा जिले में दिनांक 08.04.2021 की रात्रि 08.00 बजे से दिनांक  
16.04.2021 की प्रातः 06.00 बजे तक जिले के समस्त नगरीय एवं

93  
7/4

ग्रामीण क्षेत्रों में लॉकडाउन जिला कलेक्टर, छिन्दवाड़ा आदेशित कर सकेंगे ।

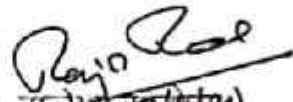
- 4/ बैतूल, रतलाम, खरगौन एवं कटनी जिलों में दिनांक 09.04.2021 को सांय 06.00 बजे से दिनांक 17.04.2021 को प्रातः 06.00 बजे तक जिले के समस्त नगरीय एवं ग्रामीण क्षेत्रों में लॉकडाउन जिला कलेक्टर जारी कर सकेंगे ।
- 5/ शाजापुर नगरीय क्षेत्र में दिनांक 07.04.2021 की रात्रि 08.00 बजे से दिनांक 10.04.2021 को प्रातः 06.00 बजे तक लॉकडाउन जिला कलेक्टर, शाजापुर आदेशित कर सकेंगे ।
- 6/ लॉकडाउन अवधि में जिन गतिविधियों को लॉकडाउन के बंधनों से मुक्त रखा जावेगा वे परिशिष्ट में संलग्न है ।
- 7/ सम्पूर्ण प्रदेश के समस्त शासकीय कार्यालयों के कार्यदिवस सप्ताह में 05 दिवस (सोमवार से शुक्रवार) निर्धारित किये जाते हैं । शनिवार एवं रविवार को समस्त शासकीय कार्यालय बंद रहेंगे । पाँच कार्यदिवसों में कार्यालयीन समय प्रातः 10.00 बजे से सांय 06.00 बजे तक नियत होगा। उक्त आदेश दिनांक 31.07.2021 तक प्रभावशील रहेंगे। सामान्य प्रशासन विभाग, म.प्र.शासन द्वारा पृथक से आदेश जारी किये जा रहे हैं ।
- 8/ लोक स्वास्थ्य एवं परिवार कल्याण विभाग द्वारा जारी गाईड लाईन्स अनुसार हॉटस्पॉट क्षेत्र/कन्टेनमेंट जोन में 07 से 10 दिवस का लॉकडाउन जिला कलेक्टर लागू कर सकेंगे । इन हॉटस्पॉट क्षेत्र/कन्टेनमेंट जोन में आवाजाही पर वे समस्त प्रतिबंध लागू होंगे

28  
7/4/21

जो लोक स्वास्थ्य एवं परिवार कल्याण विभाग की गाईडलाइन्स में उल्लेखित हैं।

उक्त दिशा-निर्देशों का समयावधि में तथा कड़ाई से पालन सुनिश्चित करें।


संलग्न- उपरोक्तानुसार।

  
(डॉ. राजेंद्र सिंह)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

ब्रम्मांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 07 अप्रैल, 2021  
प्रतिलिपि :-

1. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  2. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  3. उप सचिव, मुख्य सचिव कार्यालय।
  4. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें।
  5. पुलिस महानिदेशक, म.प्र.।
  6. रामस्त आयुक्त, म.प्र.।
  7. रामस्त जॉनल अति. पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
  8. रामस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

कार्यालय कलेक्टर, जिला-खरगोन, म.प्र.

क्रमांक/5694/स्थापना/2021,

खरगोन, दिनांक 09.04.2021

:: आदेश ::

मध्यप्रदेश शासन गृह विभाग मंत्रालय, मोपाल के झाप क्रमांक एफ 37-09/2020/दो/सी-2, दिनांक 07, अप्रैल, 2021 के द्वारा कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक दिशा-निर्देश जारी किया जाकर कण्डिका-4 अनुसार जिला खरगोन में दिनांक 09.04.2021 को सांय 06.00 बजे से दिनांक 17.04.2021 को प्रातः 06.00 बजे तक जिले के समस्त नगरीय एवं ग्रामीण क्षेत्रों में लॉकडाउन जिला कलेक्टर को जारी करने के निर्देश दिये गये है।

कोरोना वायरस के संक्रमण के कारण जिला खरगोन में कोरोना पीड़ित मरीजों की संख्या बढ़ती ही जा रही है। कोरोना वायरस के संक्रमण के रोकथाम व बचाव हेतु जिलाधिकारियों की पदीय मुख्यालय पर उपस्थिति नितान्त आवश्यक है।

अतः कोरोना वायरस के संक्रमण को दृष्टिगत रखते हुए आगामी अन्य आदेश होने तक जिला स्थित समस्त जिलाधिकारियों के अवकाश पर प्रतिबंध लगाया गया जाता है तथा आदेशित किया जाता है कि जिला कलेक्टर की बगैर अनुमति के कोई भी अधिकारी मुख्यालय छोड़कर कर अन्यत्र नहीं जाएंगे। मुख्यालय से अनुपस्थिति परिलक्षित होने पर संबंधित अधिकारी के विरुद्ध सख्त अनुशासनात्मक कार्यवाही की जावेगी।

उक्त आदेश का कड़ाई से पालन करना सुनिश्चित करें। उक्त आदेश तत्काल प्रभावशील होगा।

:: कलेक्टर महोदय के आदेश से ::

अपर कलेक्टर

TO

जिला-खरगोन, म.प्र.

खरगोन, दिनांक 09.04.2021

पृ.क्रमांक/ 5695 /स्थापना/2021,

प्रतिलिपि :-

1. आयुक्त, इन्दौर संभाग, इन्दौर की ओर सूचनार्थ प्रेषित।
2. समस्त जिलाधिकारी .....।
3. सहायक संचालक, सूचना एवं प्रकाशन खरगोन की ओर समाचार-पत्रों में प्रकाशन हेतु प्रेषित।
4. श्री .....अपर कलेक्टर/संयुक्त कलेक्टर/डिप्टी कलेक्टर खरगोन की ओर पालनार्थ।
5. अनुविभागीय अधिकारी (राजस्व) समस्त.....।
6. स्टैनो-टू-कलेक्टर खरगोन।

अपर कलेक्टर

TO

जिला-खरगोन, म.प्र.

**:: आदेश ::**

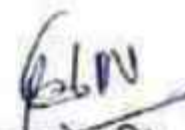
(दण्ड प्रक्रिया संहिता 1973 की धारा-144 के अंतर्गत)  
(पारित दिनांक 02/05/2021)

कार्यालयीन आदेश क्रमांक/5957-5958/सा.ले./2021 खरगोन दिनांक 25/04/2021 के तहत दण्ड प्रक्रिया संहिता 1973 की धारा 144 में प्रदत्त शक्तियों को प्रयोग में लाते हुए प्रतिबंधित प्रतिबंधों के साथ दिनांक 03 मई 2021 को प्रातः 06.00 बजे तक संपूर्ण जिले में कोरोना कर्फ्यू प्रभावशील किया गया था। उक्त आदेश में वर्णित सभी प्रतिबंध दिनांक 10.05.2021 प्रातः 06.00 बजे तक प्रभावशील रहेंगे। शेष आदेश एवं उसमें दी गई छूट एवं प्रतिबंध पूर्ववत् लागू रहेगी।

अतः जनसामान्य के स्वास्थ्य की सुरक्षा एवं लोक शांति बनाये रखने के लिए खरगोन जिले में राजस्व सीमा क्षेत्र में, मैं बी.एस.सोलंकी, अपर जिला दण्डाधिकारी, जिला खरगोन, दण्ड प्रक्रिया संहिता 1973 की धारा-144 अंतर्गत प्रतिबंधात्मक आदेश जारी करता हूँ। कोविड-19 के जारी कोरोना कर्फ्यू के समस्त निर्देशों का कड़ाई से पालन किया जावे।

यह आदेश आम जनता को संबोधित है। चूंकि वर्तमान में मेरे समक्ष ऐसी परिस्थितियां नहीं हैं, और न ही यह संभव है कि उक्त आदेश की सूचना प्रत्येक व्यक्ति को दी जावे। अतः आदेश एक पक्षीय पारित किया जाता है। आदेश से व्यथित व्यक्ति दण्ड प्रक्रिया संहिता 1973 की धारा 144 -(2) के अंतर्गत अधोहस्ताक्षरकर्ता के न्यायालय में आवेदन प्रस्तुत कर सकेगा। अत्यन्त विशेष परिस्थितियों में अधोहस्ताक्षरकर्ता संतुष्ट होने पर आवेदक को किसी भी लागू शर्तों से छूट दे सकेगा। इस आदेश का दिघिबत प्रकाशन एवं प्रसारण किया जावे। आदेश का उल्लंघन करने वाले व्यक्ति के विरुद्ध म.प्र.पब्लिक हेल्थ एक्ट 1949 तथा भारतीय दण्ड संहिता की धारा 188 के अंतर्गत दण्डात्मक कार्यवाही की जावेगी। यह एक पक्षीय आदेश संपूर्ण खरगोन जिले की राजस्व सीमा हेतु पारित किया जाता है।

यह आदेश आज दिनांक 02/05/2021 को मेरे हस्ताक्षर एवं पदमुद्रा से जारी किया गया।  
(जिला दण्डाधिकारी द्वारा अनुमोदित)

  
(बी.एस.सोलंकी)  
अपर जिला दण्डाधिकारी,  
जिला-खरगोन (म.प्र.)  
जिला खरगोन म.प्र.



(2)

पृ.क्रमांक/ 6094 /सा.ले./2021

खरगोन, दिनांक 02/05/2021

प्रतिलिपि:—

1. सचिव, मध्यप्रदेश शासन गृह (सी-अनुभाग) मंत्रालय यल्लभ भवन भोपाल।
2. आयुक्त, इंदौर सभाग, इंदौर।
3. पुलिस महानिरीक्षक, इंदौर रेंज, इंदौर।
4. उप पुलिस महानिरीक्षक निमाड रेंज खरगोन।
5. पुलिस अधीक्षक जिला खरगोन।
6. मुख्य कार्यपालन अधिकारी, जिला पंचायत, खरगोन की ओर भेजकर लेख है कि आदेश की मुनादि / चस्पादगी जिले की समस्त ग्राम पंचायतों में उचित माध्यम से करावें।
7. अपर जिला दण्डाधिकारी
8. अति.पुलिस अधीक्षक शहरी / ग्रामीण जिला खरगोन
9. मुख्य चिकित्सा एवं स्वास्थ्य अधिकारी खरगोन
10. अति.क्षेत्रीय परिवहन अधिकारी खरगोन
11. अनुविभागीय दण्डाधिकारी, (समस्त)..... जिला खरगोन।
12. अनुविभागीय अधिकारी, (समस्त).....जिला खरगोन।
13. तहसीलदार (समस्त).....जिला खरगोन।
14. परियोजना अधिकारी, जिला शहरी विकास अभिकरण, खरगोन की ओर की ओर भेजकर लेख है कि आदेश की मुनादि / चस्पादगी जिले की समस्त नगर पालिका / नगर पंचायतों में उचित माध्यम से करावें।
15. मुख्य नगरपालिका अधिकारी (समस्त).....की ओर भेजकर लेख है कि आदेश की मुनादी/चस्पादगी तत्काल कराई जावे।
16. सहायक संचालक, जनसंपर्क, खरगोन की ओर समस्त स्थानीय न्यूज पेपर में प्रकाशित कराने हेतु प्रेषित।

  
अपर जिला दण्डाधिकारी,  
जिला-खरगोन (म.प्र.)  
जिला खरगोन म.प्र.

**मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन**

क्रमांक एफ 35-09/2020/दो/सी-2,  
प्रति,

भोपाल, दिनांक 13 मार्च, 2021

समस्त कलेक्टर एवं जिला दंडाधिकारी, म.प्र.


विषय— कोरोना वायरस संक्रमण के रोकथाम एवं बचाव के संबंध में दिशा-निर्देश।

राज्य शासन द्वारा प्रदेश में कोविड की संख्या में विगत दिनों में हो रही बढ़ोत्तरी को दृष्टिगत रखते हुए निम्न नवीन दिशा निर्देश जारी किये जाते हैं :-

1. भोपाल, इन्दौर, जबलपुर, ग्वालियर, बालाघाट, सिवनी, बैतूल, छिंदवाडा, खण्डवा, खरगौन, बड़वानी, बुरहानपुर, रतलाम, एवं उज्जैन में पुलिस तथा नगर निगम के वाहनों से सोशल डिस्टेंसिंग, मास्क, रोक-टोक सम्बन्धी जनजागरण की सूचनाएँ सतत रूप से प्रसारित की जावें।
2. भोपाल और इन्दौर जिलों तथा महाराष्ट्र राज्य के सीमावर्ती जिलों बालाघाट, सिवनी, बैतूल, छिंदवाडा, खण्डवा, खरगौन, बड़वानी, बुरहानपुर में बंद हॉल में आयोजित समस्त प्रकार के कार्यक्रमों में 50 प्रतिशत हॉल की क्षमता (अधिकतम 200 व्यक्ति) के ही आयोजन हो सकेंगे।
3. महाराष्ट्र राज्य के सीमावर्ती जिलों छिंदवाडा, बालाघाट, सिवनी, खण्डवा, बड़वानी, खरगौन, बुरहानपुर, बैतूल में महाराष्ट्र से आने जाने वाले मालवाहक ट्रकों/वाहनों के आवागमन को निर्बाध रखते हुए आवागमन सीमा पर यात्रियों की चेकिंग (थर्मल स्क्रीनिंग) आवश्यक रूप से की जावे।
4. महाराष्ट्र राज्य के सीमावर्ती जिलों में महाराष्ट्र राज्य से आए समस्त यात्रियों की पहचान कर इन्हें 07 दिवस क्वारेंटाइन (Quarantine) आवश्यक रूप से किए जाने की सलाह दी जावे। इसका व्यापक प्रचार-प्रसार नगरीय निकायों एवं ग्राम पंचायतों द्वारा किया जावे तथा इसे सुनिश्चित किया जावे।
5. प्रदेश के समस्त जिलों में दुकानों एवं व्यवसायिक प्रतिष्ठानों में रस्सी के माध्यम से अथवा चूने के गोले बनाकर सोशल डिस्टेंसिंग सुनिश्चित कराई जावे। साथ ही दुकानों/प्रतिष्ठानों में आने वालों के लिए मास्क का इस्तेमाल प्रतिष्ठान द्वारा सुनिश्चित कराया जावे। इनका पालन नहीं करने वाले प्रतिष्ठानों पर जिला प्रशासन वैधानिक कार्यवाही सुनिश्चित करें।
6. समस्त जिले काईसिस मैनेजमेंट कमेटी की बैठकें आमन्त्रित कर कोविड-19 महामारी की स्थितियों एवं रोकथाम के उपायों की आवश्यक रूप से समीक्षा करें। प्रदेश के अन्य जिले भी जिला काईसिस मैनेजमेंट कमेटी के निर्णय उपरान्त उपरोक्त निर्देशों की कण्डिका 1, 2 एवं 4 अनुसार निर्णय ले सकेंगे।

*AS*  
13/3/21

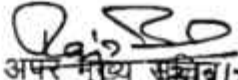
उपरोक्त दिशा निर्देश तत्काल प्रभाव से आगामी आदेश तक लागू रहेंगे ।  
इनका कड़ाई से पालन सुनिश्चित किया जावें ।

  
(डॉ. राजेंद्र सिंह)  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग  
भोपाल, दिनांक 13 मार्च, 2021

क्रमांक एफ 35-09/2020/दो/सी-2,  
प्रतिलिपि-

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यस्थ अधिकारी, माननीय गृहमंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिवकार्यालय ।
  - 4 अपर मुख्य सचिव/प्रमुख सचिव/सचिव-कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 समस्त संभागायुक्त, म.प्र. ।
  - 7 समस्त जौनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  - 8 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2,  
प्रति,

भोपाल, दिनांक 16 मार्च, 2021

समस्त कलेक्टर एवं जिला दण्डाधिकारी,  
म.प्र.

विषय- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव के संबंध में दिशा-निर्देश।

संदर्भ- गृह विभाग का समसंख्यक परिपत्र दिनांक 13 मार्च, 2021

उपरोक्त संदर्भित निर्देश दिनांक 13 मार्च, 2021 को यथावत प्रभावशील रखते हुए राज्य शासन द्वारा प्रदेश में कोविड की संख्या में विगत दिनों में हो रही बढ़ोत्तरी को दृष्टिगत रखते हुए निम्न अतिरिक्त दिशा निर्देश जारी किये जाते हैं :-

1. भोपाल और इन्दौर शहरों में रात्रि 10 बजे से प्रातः 6 बजे तक समस्त दुकानें एवं अन्य व्यवसायिक प्रतिष्ठान बन्द रहेंगे। केमिस्ट, राशन एवं खानपान की दुकानों पर यह प्रतिबंध लागू नहीं होगा। समस्त गैर-आवश्यक आवागमन बंद रहेंगे। केवल आवश्यक सेवाएं, अस्पताल, एयरपोर्ट, रेलवे स्टेशन, बस स्टैंड आने-जाने के लिए ही आवागमन की अनुमति होगी। रात्रि 10 बजे से प्रातः 6 बजे तक अकारण आवागमन न हो, इसके लिए नियमित रूप से पेट्रोलिंग व्यवस्था सुनिश्चित की जावे।
2. जबलपुर और ग्वालियर शहरों में रात्रि 10 बजे से प्रातः 6 बजे तक समस्त दुकानें एवं अन्य व्यवसायिक प्रतिष्ठान बन्द रहेंगे। केमिस्ट, राशन एवं खानपान की दुकानों पर यह प्रतिबंध लागू नहीं होगा।
3. (1) प्रदेश के दस जिलों यथा भोपाल, इन्दौर, ग्वालियर, जबलपुर, उज्जैन, रतलाम, छिंदवाड़ा, बुरहानपुर, बैतूल, खरगौन जिलों में होली के जुलूस/गैर/मेले आदि के आयोजन प्रतिबंधित रहेंगे। उपरोक्त जिलों में खुले मैदान/स्थान में आयोजित होने वाले समस्त सामाजिक/शैक्षणिक/राजनैतिक/धार्मिक/खेल/मनोरंजन/सांस्कृतिक कार्यक्रम, जिनमें 100 से अधिक व्यक्ति शामिल होंगे, की पूर्वानुमति जिला प्रशासन से प्राप्त करना बंधनकारी होगा।  
(2) दुकानों एवं अन्य व्यवसायिक प्रतिष्ठानों पर मास्क, सोशल डिस्टेंसिंग तथा कण्डिका-1 का पालन नहीं करने वाले दुकानदारों के विरुद्ध भी प्रभावी कार्यवाही की जावे। एवम्  
(3) मास्क का उपयोग नहीं करने वाले व्यक्तियों पर जुर्माना अधिरोपित करने की प्रभावी कार्यवाही की जावे।

22  
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4. नगर निगम एवं पुलिस के वाहनों के माध्यम से कोविड-19 से बचाव हेतु मास्क, सोशल डिस्टेंसिंग, रोको-टोको सम्बन्धी संदेश आवश्यक रूप से प्रसारित किये जावें ।
5. दिनांक 13 मार्च, 2021 को जारी निर्देशों की कण्डिका-4 में क्वारेंटाइन (Quarantine) को होम क्वारेंटाइन (Home Quarantine) पढ़ा जावे । उक्त कण्डिका के निर्देश के पालन हेतु पृथक से क्वारेंटाइन सेन्टर्स (Quarantine centres) नहीं खोले जावे ।

उपरोक्त निर्देश दिनांक 17 मार्च, 2021 से आगामी आदेश तक प्रभावशील रहेंगे ।  
उक्त निर्देशों का कड़ाई से पालन सुनिश्चित किया जावे ।


  
(डॉ राजेश सैनी)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

कमांक एफ 35-09/2020/दो/सी-2,  
प्रतिलिपि-

भोपाल, दिनांक 16 मार्च, 2021

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिव कार्यालय ।
  - 4 अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 समस्त संभागायुक्त, म.प्र. ।
  - 7 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  - 8 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2,  
प्रति,

भोपाल, दिनांक 19 मार्च, 2021

समस्त कलेक्टर एवं जिला दण्डाधिकारी,  
म.प्र.

विषय— कोरोना वायरस संक्रमण के रोकथाम एवं बचाव के संबंध में  
दिशा-निर्देश।  
संदर्भ— गृह विभाग का समसंख्यक परिपत्र दिनांक 13 मार्च, 2021 एवं  
16 मार्च, 2021

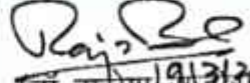
उपरोक्त संदर्भित निर्देश दिनांक 13 मार्च, 2021 एवं 16 मार्च, 2021 को यथावत प्रभावशील रखते हुए राज्य शासन द्वारा प्रदेश में कोविड की संख्या में विगत दिनों में हो रही बढोत्तरी को दृष्टिगत रखते हुए निम्न अतिरिक्त दिशा निर्देश जारी किये जाते हैं :-

- 1 भोपाल, इन्दौर और जबलपुर शहर में आगामी आदेश तक प्रत्येक रविवार को लॉकडाउन होगा। इन तीनों शहरों में शनिवार रात 10 बजे से सोमवार सुबह 6 बजे तक उक्त लॉकडाउन प्रभावी रहेगा। लॉकडाउन की अवधि में आवश्यक वस्तुओं के परिवहन, औद्योगिक इकाइयों के श्रमिकों/कर्मियों, औद्योगिक कच्चे माल तथा उत्पाद के परिवहन, बीमार व्यक्तियों के परिवहन एवं एयरपोर्ट/रेलवे स्टेशन आने एवं जाने तथा परीक्षा/प्रतियोगी परीक्षाओं में शामिल होने के लिए छूट रहेगी।
- 2 भोपाल, इन्दौर और जबलपुर शहर में दिनांक 31 मार्च, 2021 तक समस्त स्कूल एवं कॉलेज में शिक्षण बंद रहेगा। समस्त प्रकार की परीक्षाएँ जिनमें प्रतियोगी परीक्षाएँ भी सम्मिलित हैं, पूर्व से निर्धारित कार्यक्रम के अनुसार ही आयोजित होंगी। परीक्षार्थियों तथा परीक्षा के कार्य में संलग्न अधिकारियों/कर्मियों को आने जाने में कोई अवरोध नहीं रहेगा।

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19/3/21

- 3 भोपाल, इन्दौर, जबलपुर एवं ग्वालियर शहरों के साथ ही उज्जैन, रतलाम, छिंदवाडा, बुरहानपुर, बैतूल, खरगौन शहरों में भी रात्रि 10.00 बजे से प्रातः 6.00 बजे तक समस्त दुकानें एवं अन्य व्यवसायिक प्रतिष्ठान बंद रहेंगे । केमिस्ट, राशन एवं खानपान की दुकानों पर यह प्रतिबंध लागू नहीं होगा ।

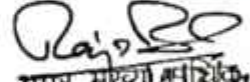
उपरोक्त निर्देश तत्काल प्रभाव से लागू होंगे । उक्त निर्देशों का कड़ाई से पालन सुनिश्चित किया जावे ।

  
(डा० राजेश सिंह)  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2,  
प्रतिलिपि-

भोपाल, दिनांक 19 मार्च, 2021

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिव कार्यालय ।
  - 4 अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 समस्त संभागायुक्त, म.प्र. ।
  - 7 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.
  - 8 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 22 मार्च, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दंडाधिकारी,  
म.प्र.

विषय- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

संदर्भ- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09/2020  
/सी-2 /दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021 एवं 19  
मार्च, 2021

उपरोक्त संदर्भित निर्देश दिनांक 13 मार्च, 2021, 16 मार्च, 2021  
एवं 19 मार्च, 2021 को यथावत् प्रभावशील रखते हुए राज्य शासन द्वारा  
प्रदेश में कोविड की संख्या में विगत दिनों में हो रही बढ़ोत्तरी को दृष्टिगत  
रखते हुए निम्न अतिरिक्त दिशा निर्देश जारी किये जाते हैं :-

1. आमजन को कोरोना के संकट के प्रति संवेदनशील बनाने के क्रम में  
आगामी एक सप्ताह प्रतिदिन सुबह 11.00 बजे तथा सायं 7.00 बजे  
शहरी क्षेत्रों के सभी सायरन (चाहे भवनों पर स्थापित हों या पुलिस  
वाहन पर हों) को 02 मिनट के लिए बजाए जाएंगे। ये आमजन  
को स्मरण कराने के लिए है कि मास्क, सोशल डिस्टेंसिंग,  
हेण्डवाश/सेनेटाईजिंग कोविड महामारी से लड़ने के लिए आवश्यक  
है। सायरन बजने का समय मोबाईल के नेटवर्क टाईम से  
Synchronise किया जावे ताकि सभी एक साथ बजें।

दिनांक 23 मार्च को 11.00 बजे सायरन बजने के बाद जिला प्रशासन,  
जनप्रतिनिधियों, स्वयं सेवी संगठनों आदि के सहयोग से शहरों में  
पूर्व से चलाए जा रहे रोक-टोक अभियान अन्तर्गत गतिविधियों को  
संचालित करेंगे।

2 ऐसे जिले जहाँ पर कोविड के साप्ताहिक पॉजिटिव केसेस का प्रतिदिन औसत 20 से ज्यादा हैं, उन जिलों में :-

- सभी त्यौहारों के कार्यक्रमों में भाग लेने वाले लोगों की संख्या को सीमित रखा जावे ।
- सामाजिक कार्यक्रमों यथा विवाह, अंतिम संस्कार आदि में भाग लेने वालों की संख्या सीमित करने की कार्यवाही की जावे ।
- सभी सामाजिक तथा धार्मिक त्यौहारों में जुलूस/गैर/मेले आदि आयोजित नहीं किये जावेंगे ।
- जिला कलेक्टर, जहां उपयुक्त समझे, जनसुनवाई के कार्यक्रम दिनांक 30 अप्रैल 2021 तक स्थगित कर सकते हैं ।

3 जिन जिलों में कोविड के प्रतिदिन औसत पॉजिटिव केसेज 20 से कम है, उन जिलों की काईसिस मैनेजमेंट कमेटी उपरोक्त कण्डिका-2 में उल्लेखित प्रतिबंध का अपने स्तर से लगाने पर निर्णय ले सकेंगे । ✖

4 करीला माता मेला (अशोकनगर) कोविड संक्रमण फैलने की दृष्टि से इस वर्ष आयोजित नहीं किया जावेगा ।


*Page*  
22/3/21

5 महाराष्ट्र राज्य के सीमा पर वस्तुओं तथा सेवाओं के परिवहन को छोड़कर यात्रियों के आवागमन का नियमन आवश्यक रूप से किया जावे । महाराष्ट्र राज्य आने व जाने वाली बसों का परिवहन बंद करने के आदेशों का प्रभावी पालन कराया जावे ।

6 औद्योगिक विकास निगम द्वारा "जीवन शक्ति" योजना अन्तर्गत तैयार किये गये फेस मास्क का वितरण उन नागरिकों को निशुल्क किया जावे जिन पर मास्क न लगाने के कारण जुर्माना लगाया गया है ।


7 कोविड-19 महामारी रोकथाम हेतु रोको-टोको कार्यक्रमों में जनप्रतिनिधियों, अधिकारी-कर्मचारियों, धार्मिक गुरुओं, मीडिया, NCC, NSS, स्वयं सेवी संगठनों, स्व-सहायता समूहों को जोड़ा जावे ।

उपरोक्त निर्देश तत्काल प्रभाव से लागू होंगे। उक्त निर्देशों का कड़ाई से पालन सुनिश्चित किया जावे।

  
(~~डॉ राजेश राजवारी~~ 22/3/21)  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 22 मार्च, 2021  
प्रतिलिपि—

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिव कार्यालय ।
  - 4 अपर मुख्य सचिव/प्रमुख सचिव/सचिव— कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 समस्त संभागायुक्त, म.प्र. ।
  - 7 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  - 8 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 24 मार्च, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दंडाधिकारी,  
म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

संदर्भ :- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09/2020  
/सी-2/दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021,  
19 मार्च, 2021 एवं 22 मार्च, 2021

भारत सरकार, स्वास्थ्य एवं परिवार कल्याण मंत्रालय, नई दिल्ली  
ने पत्र क्रमांक Do.No. AS(H)/Misc/2021 दिनांक 24 मार्च, 2021 के  
द्वारा होली, शब-ए-बारात, ईस्टर एवं ईद-उल-फितर आदि त्यौहारों के  
दृष्टिगत अतिरिक्त स्थानीय प्रतिबंध (Local Restrictions) लागू किये  
जाने की सलाह दी है। इस क्रम में प्रदेश में कोविड की संख्या में विगत  
दिनों में हो रही बढ़ोत्तरी को दृष्टिगत रखते हुए निम्न अतिरिक्त दिशा  
निर्देश जारी किये जाते हैं :-

24/3/21

- (i) दिनांक 19 मार्च, 2021 को जारी परिपत्र में उल्लेखित तीन शहरों  
भोपाल, इंदौर और जबलपुर के साथ ही बैतूल, छिंदवाडा, खरगौन  
एवं रतलाम शहरों में आगामी आदेश तक प्रत्येक रविवार को  
लॉकडाउन होगा। इन सातों शहरों में शनिवार रात 10 बजे से  
सोमवार सुबह 6 बजे तक लॉकडाउन प्रभावी रहेगा। लॉकडाउन

की अवधि में वस्तुओं, औद्योगिक इकाईयों के श्रमिकों/कर्मियों, औद्योगिक कच्चे माल तथा उत्पाद, बीमार व्यक्तियों के परिवहन एवं एयरपोर्ट/रेलवे स्टेशन आने एवं जाने तथा परीक्षा/प्रतियोगी परीक्षाओं में शामिल होने के लिए छूट रहेगी ।

(ii) उक्त सातों शहरों में दिनांक 31 मार्च, 2021 तक समस्त स्कूल एवं कॉलेज में शिक्षण बंद रहेगा । समस्त प्रकार की परीक्षाएँ, जिनमें प्रतियोगी परीक्षा भी सम्मिलित हैं, पूर्व से निर्धारित कार्यक्रम के अनुसार ही आयोजित होंगी । परीक्षार्थी तथा परीक्षा के कार्य में संलग्न अधिकारियों/कर्मियों को आने जाने में कोई अवरोध नहीं रहेगा ।

(iii) उक्त सात शहरों में दिनांक 28.03.2021 को लॉकडाउन होने के कारण होली दहन तथा शब-ए-बरात को सांकेतिक रूप से मनाये जाने की अनुमति दी जा सकेगी ।

2/ (i) ऐसे जिले, जहाँ पर कोविड के साप्ताहिक पॉजिटिव केसेस का प्रतिदिन औसत 20 से ज्यादा है, उन जिलों में दिनांक 22 मार्च 2021 की कंडिका-2 में उल्लेखित बिन्दुओं के साथ ही निम्न अतिरिक्त प्रतिबंध लागू किए जाते हैं :-

29  
24/3/21

- शादी समारोह में 50 तथा शवयात्रा में 20 से अधिक व्यक्ति सम्मिलित नहीं होंगे ।
- जिम, स्वीमिंग पूल, सिनेमाघर बंद रहेंगे ।
- उठावना, मृत्युभोज कार्यक्रम में 50 से अधिक व्यक्ति सम्मिलित नहीं होंगे ।
- रेस्टोरेंट में बैठकर खाने पर प्रतिबंध रहेगा परन्तु वह take away भोजन प्रदाय कर सकेंगे ।
- बंद हॉल के कार्यक्रम में 50 प्रतिशत हॉल की क्षमता (अधिकतम 100 व्यक्ति) सम्मिलित हो सकेंगे ।

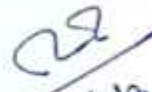
(ii) इन जिलों की क्राइसिस मैनेजमेंट कमेटी निम्न बिन्दुओं पर निर्णय ले सकती हैं :-

- धार्मिक स्थलों में लोगों को एकत्रित होने से प्रतिबंधित करना ।
- रात 10 बजे से सुबह 6 बजे तक लॉकडाउन की अवधि के स्थान पर रात्रि 8 बजे से सुबह 6 बजे तक लॉकडाउन प्रभावी करना । (केमिस्ट, राशन एवं खान-पान की दुकानों पर यह प्रतिबंध लागू नहीं होंगे ।)

3/ सभी जिलों में लॉकडाउन के दौरान दिनांक 28.03.2021 को शासकीय कोषालय एवं उप-कोषालय तथा पंजीयन एवं उप-पंजीयक कार्यालय खुले रहेंगे तथा इनमें कार्य करने वाले कर्मचारियों एवं सेवा प्राप्त करने वाले नागरिकों के आवागमन को प्रतिबंधित नहीं किया जावेगा ।

4/ सभी जिलों में समस्त सामाजिक एवं धार्मिक त्यौहारों में निकलने वाले जुलूस/गैर/मेले सर्वजनिक रूप से लोगों का एकत्रित होना प्रतिबंधित रहेगा ।

5/ सभी जिलों में होली का त्यौहार परिवारजनों के साथ ही मनाये जाने की अपील सभी नागरिकों से की जाये ताकि वह संक्रमण से बच सकें ।

  
आ/४७

जिन जिलों में कोविड के साप्ताहिक पॉजीटिव केसेस की औसत प्रतिदिन संख्या 20 से कम है, वहां क्राइसिस मैनेजमेन्ट कमेटी निम्न बिन्दुओं पर निर्णय ले सकेगी :-

- (i) जनसुनवाई के कार्यक्रम को स्थगित रखना ।
- (ii) विवाह, अंतिम संस्कार जैसे सामाजिक कार्यक्रमों में भाग लेने वाले लोगों की संख्या का निर्धारण ।

7/ कोरोना वायरस संक्रमण की रोकथाम एवं बचाव के संबंध में गृह विभाग द्वारा पूर्व में जारी परिपत्र क्रमांक-एफ-35-09/2020/दो, सी-2, दिनांक 13, 16, 19 एवं 22 मार्च 2021 को जारी किए गये थे। इन परिपत्रों में दिए गये निर्देश को उस सीमा तक संशोधित माने जाएं, जैसा की उपरोक्त निर्देशों में उल्लेखित किया गया है।

यह निर्देश तत्काल प्रभाव से लागू होंगे एवं आगामी आदेश तक प्रभावशील रहेंगे।

  
(डॉ. राजेंद्र राजवारा)  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 24 मार्च, 2021  
प्रतिलिपि :-

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यरथ अधिकारी, माननीय गृह मंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिव कार्यालय ।
  - 4 अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 समस्त संभागायुक्त, म.प्र. ।
  - 7 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  - 8 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 26 मार्च, 2021  
प्रति,

कलेक्टर,

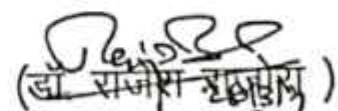
जिला ग्वालियर, उज्जैन, विदिशा, नरसिंहपुर एवं छिंदवाडा  
म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

संदर्भ :- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09/2020  
/सी-2/दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021,  
19 मार्च, 2021, 22 मार्च, 2021 एवं 24 मार्च, 2021

गृह विभाग द्वारा दिनांक 24 मार्च, 2021 को जारी परिपत्र की  
कंडिका-1 में उल्लेखित भोपाल, इंदौर, जबलपुर, बैतूल, छिंदवाडा, खरगौन  
एवं रतलाम शहरों में आगामी आदेश तक प्रत्येक रविवार को लॉकडाउन  
किये जाने तथा इन शहरों में शनिवार रात 10 बजे से सोमवार सुबह 6  
बजे तक लॉकडाउन प्रभावी रहने संबंधी आदेश जारी किए गए हैं। इसी  
अनुक्रम में कोविड-19 के पॉजिटिव केसेज की बढ़ती संख्या को दृष्टिगत  
रखते हुए ग्वालियर, उज्जैन, विदिशा, नरसिंहपुर एवं सौंसर (जिला  
छिंदवाडा) शहरों में भी आगामी आदेश तक प्रत्येक रविवार को लॉकडाउन  
रहेगा तथा शनिवार रात 10 बजे से सोमवार सुबह 6 बजे तक लॉकडाउन  
प्रभावी रहेगा। उक्त परिपत्र की समस्त शेष कंडिकायें यथावत लागू  
रहेंगी।


यह निर्देश तत्काल प्रभाव से लागू होंगे एवं आगामी आदेश तक  
प्रभावशील रहेंगे।

  
(~~डा. राजेश शर्मा~~)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09 / 2020 / दो / सी-2, भोपाल, दिनांक 26 मार्च, 2021  
प्रतिलिपि :-

- 1 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 2 विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  - 3 उप सचिव, मुख्य सचिव कार्यालय ।
  - 4 अपर मुख्य सचिव / प्रमुख सचिव / सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 5 पुलिस महानिदेशक, म.प्र. ।
  - 6 आयुक्त, ग्वालियर / उज्जैन / भोपाल / जबलपुर । ।
  - 7 जोनल अतिरिक्त पुलिस महानिदेशक / पुलिस महानिरीक्षक ग्वालियर / उज्जैन / भोपाल एवं जबलपुर जोन म.प्र. ।
  - 8 पुलिस अधीक्षक, ग्वालियर / उज्जैन / विदिशा / नरसिंहपुर / छिंदवाड़ा म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 31 मार्च, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।


संदर्भ :- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09/2020  
/सी-2/दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021, 19 मार्च,  
2021, 22 मार्च, 2021, 24 मार्च, 2021 एवं 26 मार्च, 2021

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उपरोक्त संदर्भित निर्देश दिनांक 13 मार्च, 16 मार्च, 19 मार्च,  
22 मार्च, 24 मार्च एवं 26 मार्च 2021 को यथावत् प्रभावशील रखते हुए  
राज्य शासन द्वारा प्रदेश में कोविड की संख्या में विगत दिनों में हो रही  
बढ़ोत्तरी को दृष्टिगत रखते हुए निम्न अतिरिक्त दिशा-निर्देश जारी किये  
जाते हैं :-

1. भोपाल, इन्दौर, जबलपुर, बैतूल, छिन्दवाड़ा, खरगौन एवं रतलाम  
शहरों में दिनांक 15 अप्रैल, 2021 तक समस्त स्कूल/कॉलेज में  
शिक्षण बंद रहेगा ।
2. महाराष्ट्र से आने वाली बसें तथा मध्यप्रदेश से महाराष्ट्र जाने वाली  
बसों का आवागमन दिनांक 15 अप्रैल, 2021 तक प्रतिबन्धित रखा  
जावे।

यह निर्देश तत्काल प्रभाव से लागू होंगे एवं आगामी आदेश तक  
प्रभावशील रहेंगे।

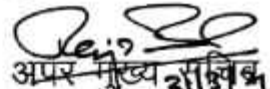
  
(डॉ. राजेश राजगोपाल)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 31 मार्च, 2021  
प्रतिलिपि :-

1. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
2. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
3. उप सचिव, मुख्य सचिव कार्यालय।
4. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें।
5. पुलिस महानिदेशक, म.प्र.।
6. समस्त आयुक्त, म.प्र.।
7. समस्त जोनल अति. पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
8. समस्त पुलिस अधीक्षक, म.प्र.।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09 / 2020 / दो / सी-2, भोपाल, दिनांक 07 अप्रैल, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा निर्देश ।

संदर्भ :- विभागीय समसंख्यक परिपत्र क्रमांक एफ 35-09 / 2020  
/ सी-2 / दो, दिनांक 13 मार्च, 2021, 16 मार्च, 2021, 19 मार्च,  
2021, 22 मार्च, 2021, 24 मार्च, 2021, 26 मार्च, 2021 एवं 31  
मार्च, 2021

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राज्य शासन द्वारा कोविड-19 महामारी के रोकथाम एवं बचाव के  
संबंध में दिनांक 30 अप्रैल 2021 तक के लिये निम्न अतिरिक्त दिशा-निर्देश  
जारी किये जाते हैं :-

- 1/ प्रदेश के समस्त नगरीय क्षेत्रों में प्रतिदिन रात्रि 10.00 बजे से सुबह  
06.00 बजे का रात्रिकालीन लॉकडाउन रहेगा ।
- 2/ प्रदेश के समस्त नगरीय क्षेत्रों में (दमोह को छोड़कर) शुक्रवार सांय  
06.00 बजे से सोमवार प्रातः 06.00 बजे तक लॉकडाउन प्रभावी  
रहेगा । दमोह नगर के सम्बन्ध में जिला निर्वाचन अधिकारी, दमोह  
द्वारा निर्णय लिया जावेगा ।
- 3/ छिन्दवाड़ा जिले में दिनांक 08.04.2021 की रात्रि 08.00 बजे से दिनांक  
16.04.2021 की प्रातः 06.00 बजे तक जिले के समस्त नगरीय एवं

  
ग/प्र

ग्रामीण क्षेत्रों में लॉकडाउन जिला कलेक्टर, छिन्दवाड़ा आदेशित कर सकेंगे ।

- 4/ बैतूल, रतलाम, खरगौन एवं कटनी जिलों में दिनांक 09.04.2021 को सांय 06.00 बजे से दिनांक 17.04.2021 को प्रातः 06.00 बजे तक जिले के समस्त नगरीय एवं ग्रामीण क्षेत्रों में लॉकडाउन जिला कलेक्टर जारी कर सकेंगे ।
- 5/ शाजापुर नगरीय क्षेत्र में दिनांक 07.04.2021 की रात्रि 08.00 बजे से दिनांक 10.04.2021 को प्रातः 06.00 बजे तक लॉकडाउन जिला कलेक्टर, शाजापुर आदेशित कर सकेंगे ।
- 6/ लॉकडाउन अवधि में जिन गतिविधियों को लॉकडाउन के बंधनों से मुक्त रखा जावेगा वे परिशिष्ट में संलग्न है ।
- 7/ सम्पूर्ण प्रदेश के समस्त शासकीय कार्यालयों के कार्यदिवस सप्ताह में 05 दिवस (सोमवार से शुक्रवार) निर्धारित किये जाते हैं । शनिवार एवं रविवार को समस्त शासकीय कार्यालय बंद रहेंगे । पाँच कार्यदिवसों में कार्यालयीन समय प्रातः 10.00 बजे से सांय 06.00 बजे तक नियत होगा । उक्त आदेश दिनांक 31.07.2021 तक प्रभावशील रहेंगे । सामान्य प्रशासन विभाग, म.प्र.शासन द्वारा पृथक से आदेश जारी किये जा रहे हैं ।
- 8/ लोक स्वास्थ्य एवं परिवार कल्याण विभाग द्वारा जारी गाईड लाईन्स अनुसार हॉटस्पॉट क्षेत्र/कन्टेनमेंट जोन में 07 से 10 दिवस का लॉकडाउन जिला कलेक्टर लागू कर सकेंगे । इन हॉटस्पॉट क्षेत्र/कन्टेनमेंट जोन में आवाजाही पर वे समस्त प्रतिबंध लागू होंगे

028  
7/11/21

जो लोक स्वास्थ्य एवं परिवार कल्याण विभाग की गाईडलाईन्स में उल्लेखित हैं ।

उक्त दिशा-निर्देशों का समयावधि में तथा कड़ाई से पालन सुनिश्चित करें ।

संलग्न— उपरोक्तानुसार ।


  
(डॉ. राजेंद्र सिंह)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 07 अप्रैल, 2021

प्रतिलिपि :-

1. प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  2. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  3. उप सचिव, मुख्य सचिव कार्यालय ।
  4. अपर मुख्य सचिव/प्रमुख सचिव/सचिव— कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  5. पुलिस महानिदेशक, म.प्र. ।
  6. समस्त आयुक्त, म.प्र. ।
  7. समस्त जोनल अति. पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  8. समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

## गतिविधियाँ जिन्हें लॉकडाउन में प्रतिबंध से छूट रहेगी

- (i) अन्य राज्यों से माल, सेवाओं का आवागमन ।
- (ii) केमिस्ट, राशन दुकानें, अस्पताल, पेट्रोल पम्प, बैंक एवं ATM, दूध एवं सब्जी की दुकानें ।
- (iii) औद्योगिक मजदूरों, उद्योगों हेतु कच्चा/तैयार माल, उद्योगों के अधिकारियों/कर्मचारियों का आवागमन ।
- (iv) केन्द्र सरकार, राज्य सरकार एवं स्थानीय निकाय के अधिकारी/कर्मचारी का आवागमन ।
- (v) परीक्षा केन्द्र आने एवं जाने वाले प्रशिक्षार्थी तथा परीक्षा केन्द्र एवं परीक्षा आयोजन से जुड़े कर्मी, अधिकारीगण ।
- (vi) एम्बुलेंस एवं फायर बिग्रेड सेवायें ।
- (vii) टीकाकरण हेतु आवागमन कर रहे नागरिक/कर्मी ।
- (viii) बस स्टैण्ड, रेलवे स्टेशन, एयरपोर्ट से आने-जाने वाले नागरिक
- (ix) अन्य गतिविधियाँ जिन्हें जिला कलेक्टर लॉकडाउन से मुक्त रखने हेतु उचित समझें ।

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 12 अप्रैल, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय :- कोरोना कर्फ्यू के संबंध में दिशा- निर्देश ।

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कोविड-19 महामारी को रोकथाम के क्रम में विभिन्न जिलों द्वारा समय-समय पर प्रतिबंधात्मक कार्यवाही की जाती है। उक्त कार्यवाहियों में एकरूपता तथा पारदर्शिता लाने की दृष्टि से "कोरोना कर्फ्यू" लगाये जाने के लिए निम्न प्रक्रिया निर्धारित की जाती है :-

1. कोरोना कर्फ्यू से तात्पर्य ऐसे प्रतिबंधात्मक आदेश से है जिसका मूल ध्येय कोविड-19 के संक्रमण को रोकना है। कोरोना कर्फ्यू से तात्पर्य लॉकडाउन नहीं है तथा कोरोना कर्फ्यू जिन क्षेत्रों में लागू होगा वहां परिशिष्ट में अंकित गतिविधियों पर कोई प्रतिबंध नहीं होगा तथा इन गतिविधियों से जुड़े व्यक्तियों/वाहनों को किसी पास/ई-पास की आवश्यकता नहीं होगी।
2. कोरोना कर्फ्यू लगाने के पूर्व जिला कलेक्टर द्वारा व्यापक जन परामर्श किया जाना आवश्यक होगा। जनप्रतिनिधिगण, स्वयंसेवी संगठनों, व्यापारिक एवं सामाजिक संगठनों, रेसीडेन्ट वेल्फेयर कमेटियों, स्थानीय निकायों आदि से विभिन्न स्तर पर विचार-विमर्श एवं परामर्श किया जावेगा। आम जन सहमति बनने के उपरान्त जिले के किन क्षेत्रों में तथा कितनी अवधि के लिए कोरोना कर्फ्यू लगाया जावेगा के संबंध में जिला आपदा प्रबन्धन समिति निर्णय लेगी।


127  
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निरंतर .....2

3. जिला आपदा प्रबन्धन समिति के निर्णय पर जिला कलेक्टर राज्य सरकार को पूर्व सूचना देने के उपरांत कोरोना कर्फ्यू संबंधी आदेश जारी कर सकेंगे।
4. कोरोना कर्फ्यू केवल रात्रिकाल के लिए अथवा रविवार के लिए अथवा वीक-एण्ड (शनिवार-रविवार) के लिए अथवा उससे अधिक अवधि के लिए लागू किया जा सकेगा।
5. इस प्रक्रिया का मूल उद्देश्य यह सुनिश्चित करना है कि, कोरोना कर्फ्यू जनता की मांग तथा आम सहमति से ही लिया जावे। कोरोना कर्फ्यू में गतिविधियाँ, जिन पर प्रतिबंध से छूट रहेगी, परिशिष्ट पर संलग्न हैं।
6. कतिपय कारणों से अगर इस परिशिष्ट में उल्लेखित किसी गतिविधि को प्रतिबंधित करना आवश्यक हो तो जिला कलेक्टर राज्य सरकार की पूर्व अनुमति से ऐसी गतिविधि को भी प्रतिबंधित कर सकेंगे।

उक्त दिशा-निर्देश तत्काल प्रभाव से लागू होंगे।


संलग्न- उपरोक्तानुसार।

  
(डॉ. राजेश राजवारी)

अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 12 अप्रैल, 2021  
प्रतिलिपि :-

1. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  2. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  3. उप सचिव, मुख्य सचिव कार्यालय।
  4. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें।
  5. पुलिस महानिदेशक, म.प्र.।
  6. समस्त आयुक्त, म.प्र.।
  7. समस्त जोनल अति. पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
  8. समस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

सर्वोच्च प्राथमिकता

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 20 अप्रैल, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी

म.प्र.

विषय :- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव के सम्बन्ध में दिशा निर्देश ।

संदर्भ- विभागीय पत्र क्रमांक एफ 35-09/2020/दो/सी-2, दिनांक 12 अप्रैल, 2021

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कृपया उपरोक्त संदर्भित निर्देश दिनांक 12 अप्रैल, 2021 का अवलोकन करें। राज्य शासन द्वारा प्रदेश में कोविड की संख्या में विगत दिनों हो रही बढ़ोत्तरी को दृष्टिगत रखते हुए निम्न अतिरिक्त दिशा-निर्देश जारी किये जाते हैं :-

1. केन्द्र सरकार के ऐसे कार्यालय, जो अत्यावश्यक सेवाएं प्रदान नहीं करते हैं, को यह सलाह दी जाए कि वह 10 प्रतिशत कर्मचारियों के साथ कार्यालय चलायें ।
2. अत्यावश्यक सेवाएं देने का कार्य करने वाले कार्यालयों को छोड़कर शेष कार्यालय 10 प्रतिशत कर्मचारियों के साथ संचालित किये जाएं। अत्यावश्यक सेवाओं में जिला कलेक्टर, पुलिस, आपदा प्रबन्धन, फायर, स्वास्थ्य एवं चिकित्सा शिक्षा, जेल, राजस्व, पेयजल आपूर्ति, नगरीय प्रशासन, ग्रामीण विकास, विद्युत प्रदाय, सार्वजनिक परिवहन, कोषालय आदि सम्मिलित हैं ।
3. IT कम्पनियों, BPO/मोबाईल कम्पनियों का सपोर्ट स्टॉफ एवं यूनिट्स को छोड़कर शेष निजी कार्यालय भी 10 प्रतिशत कर्मचारियों के साथ ही अपना कार्य सम्पादित करेंगे ।
4. उपरोक्त बिन्दु क्रमांक 2 एवं 3 में 10 प्रतिशत के बंधन के कारण जो कर्मचारी कार्यालय नहीं आते हैं वे Work From Home करेंगे ।
5. ऑटो, ई-रिक्शा में दो सवारी, टैक्सी तथा निजी चार पहिया वाहनों में ड्राइवर तथा दो पैसंजरो को (मास्क के साथ) यात्रा करने की अनुमति होगी ।

6. सामाजिक/राजनैतिक/खेलकूद/मनोरंजन/शैक्षणिक/सांस्कृतिक/सार्वजनिक तथा धार्मिक कार्यक्रमों के आयोजनों के लिए लोगों का एकत्रित होना पूर्णतः वर्जित रहेगा।
7. बड़ी सब्जी मण्डियों को छोटे-छोटे स्वरूप में शहरों के विभिन्न भागों में बांटे जाने की कार्यवाही की जा सकती है।
8. यह सुनिश्चित किया जाये कि किराना के थोक व्यापारियों द्वारा फुटकर किराना दुकानों में सामग्री का प्रदाय सतत एवं निर्बाध रूप से बना रहे।
- 2/ उपरोक्त निर्देशों का मूल आशय यह है कि कम से कम लोग अपने घरों से निकलें ताकि संक्रमण की चेन को तोड़ा जा सके।
- 3/ राज्य शासन द्वारा जारी आदेश क्रमांक एफ 35-09/2020/दो/सी-2, दिनांक 12 अप्रैल, 2021 उपरोक्त सीमा तक संशोधित माना जाये।

उक्त निर्देशों का कड़ाई से पालन सुनिश्चित करें।


  
(डॉ. सज्जेश राजेश)

अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 20 अप्रैल, 2021  
प्रतिलिपि :-

1. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  2. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  3. उप सचिव, मुख्य सचिव कार्यालय।
  4. अपर मुख्य सचिव/प्रमुख सचिव/सचिव मध्यप्रदेश शासन, - कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें।
  5. पुलिस महानिदेशक, म.प्र.।
  6. समस्त आयुक्त, म.प्र.।
  7. समस्त जोनल अति. पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
  8. समस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन

गृह विभाग,

मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 29 मई, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय:- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

माह मार्च-अप्रैल, 2021 में कोविड-19 के संक्रमण के मामलों की संख्या में वृद्धि होने पर राज्य शासन द्वारा संक्रमण की रोकथाम हेतु दिशा निर्देश जारी किए गये थे। राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कमी को दृष्टिगत कोरोना कर्फ्यू के प्रतिबंधों के सम्बन्ध में जारी पूर्व आदेशों को अधिक्रमित करते हुए नवीन दिशा-निर्देश निम्नानुसार जारी किए जाते हैं, जो दिनांक 01 जून 2021 से प्रभावशील होंगे।

2/ राज्य के समस्त शहरी एवं ग्रामीण क्षेत्रों में प्रतिबंधित गतिविधियां परिशिष्ट-1 पर संलग्न हैं। ये प्रतिबंध प्रदेश के समस्त नगरीय एवं ग्रामीण क्षेत्रों पर लागू होंगे।

3/ प्रदेश के समस्त शहरी एवं ग्रामीण क्षेत्रों में प्रतिबंध से मुक्त/अनुमत्य गतिविधियां परिशिष्ट-2 पर संलग्न हैं। ये गतिविधियां प्रदेश के समस्त नगरीय एवं ग्रामीण क्षेत्रों में संचालित होंगी।

4/ प्रदेश में जिन गतिविधियों के लिए नगरीय क्षेत्र में पॉजिटिविटी दर का साप्ताहिक औसत 05% से अधिक अथवा कम है, वहां संचालित हो सकने वाली गतिविधियां परिशिष्ट-3 पर संलग्न हैं।

5/ कोविड प्रोटोकॉल तथा कोविड उपयुक्त व्यवहार परिशिष्ट-4 पर संलग्न हैं।

6/ प्रदेश के ग्रामों को तीन जोन में चिन्हांकित किया गया है। जहाँ कोविड-19 के शून्य active cases हैं, उन ग्रामों को ग्रीन ग्राम तथा जहाँ कोविड-19 के चार या चार से कम active cases हैं, उन ग्रामों को येलो ग्राम के रूप में चिन्हांकित किया गया है। ग्रीन एवं येलो ग्रामों में परिशिष्ट-1 में उल्लेखित प्रतिबंधित गतिविधियों के अलावा अन्य समस्त गतिविधियां संचालित हो सकेंगी।

(डॉ. राजेश राजोरा)  
अपर मुख्य सचिव  
मध्यप्रदेश शासन  
गृह, एवं जेल विभाग

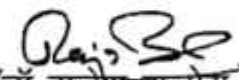
7/ जिन ग्रामों में कोविड-19 के active cases पांच या पांच से अधिक हैं, उन्हें रेड ग्राम के रूप में चिह्नांकित किया गया है। रेड ग्रामों में तथा नगरीय क्षेत्रों के Micro containment zone/Containment zone में कोविड-19 संक्रमण के संबंध में केन्द्रीय स्वास्थ्य मंत्रालय द्वारा जारी दिशा-निर्देशों (guidelines) के अनुसार ही गतिविधियां हो सकेंगी।

8/ जिन नगरीय क्षेत्रों में पॉजिटिविटी दर का साप्ताहिक औसत 05% से अधिक है किन्तु 15 जून के पूर्व साप्ताहिक औसत 5% से कम हो जाता है तो वह प्रतिबंध परिशिष्ट-3 के अनुसार relax कर सकेंगे। जिन नगरीय क्षेत्रों में पॉजिटिविटी दर का साप्ताहिक औसत 5% से कम है किन्तु 15 जून के पूर्व साप्ताहिक औसत 5% से अधिक हो जाता है तो वह प्रतिबंध परिशिष्ट-3 के अनुसार बढ़ा सकेंगे। परंतु प्रतिबंध बढ़ाने से पूर्व गृह विभाग, मध्यप्रदेश शासन से सलाह करना आवश्यक होगा।

9/ जिला कलेक्टर यह निर्देश समस्त ग्राम/वार्ड/ब्लॉक क्राइसिस मैनेजमेन्ट ग्रुप्स को प्रेषित कर उनकी सहमति एवं सुझाव दिनांक 30.05.2021 तक प्राप्त करें। दिनांक 30.05.2021 को ही जिला आपदा प्रबंधन समिति की बैठक में विचार कर निर्णय लिया जावे। दिनांक 31.05.2021 को प्रतिबंधात्मक आदेश का व्यापक प्रचार प्रसार करें। यदि इस परिपत्र के दिशा-निर्देशों से भिन्न कोई निर्णय लेना आवश्यक हो तो गृह विभाग, मध्यप्रदेश शासन से सहमति प्राप्त करने के उपरांत ही आदेश जारी किए जावेंगे। यह समस्त कार्यवाही दिनांक 31.05.2021 तक पूरी की जावे।


10/ उक्त दिशा-निर्देश दिनांक 15.06.2021 तक प्रभावशील रहेंगे। जिला प्रशासन कोविड-19 प्रोटोकॉल का जिला में पालन सुनिश्चित करावे तथा इनका उल्लंघन करने वालों पर वैधानिक कार्यवाही सुनिश्चित की जावे। कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

संलग्न : उपरोक्तानुसार।

  
(डॉ. संजय कुमार)  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2 भोपाल, दिनांक 29 मई, 2021  
प्रतिलिपि-

- 1 सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली
  - 2 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 3 विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
  - 4 उप सचिव, मुख्य सचिव कार्यालय ।
  - 5 अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 6 पुलिस महानिदेशक, म.प्र. ।
  - 7 समस्त संभागायुक्त, म.प्र. ।
  - 8 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक
  - 9 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर-मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 15 जून, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय:- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।


राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कमी को दृष्टिगत रखते हुए कोरोना कर्फ्यू के प्रतिबंधों के समन्वय में जारी पूर्व आदेशों को अधिक्रमित करते हुए नवीन दिशा-निर्देश निम्नानुसार जारी किए जाते हैं, जो तत्काल प्रभाव से प्रभावशील होंगे।

- 1/ सभी सामाजिक/ राजनैतिक/ खेल/ मनोरंजन/ सांस्कृतिक/ धार्मिक आयोजन/ मेले आदि जिनमें जनसमूह एकत्र होता है, प्रतिबंधित रहेंगे।
- 2/ स्कूल, कॉलेज, शैक्षणिक/प्रशिक्षण/कोचिंग संस्थान बंद रहेंगे। ऑनलाईन क्लासेस चल सकेंगी।
- 3/ सभी धार्मिक/पूजा स्थल खुल सकेंगे किन्तु एक समय में 06 से अधिक व्यक्ति उपस्थित नहीं रह सकेंगे तथा उपस्थित जनों को कोविड प्रोटोकॉल का पालन करना बंधनकारी होगा।
- 4/ समस्त शासकीय, अर्द्धशासकीय, निगम, मण्डल के कार्यालय 100% अधिकारियों एवं 100% कर्मचारियों की उपस्थिति में खुलेंगे।
- 5/ समस्त प्रकार की दुकानें, व्यावसायिक प्रतिष्ठान तथा निजी कार्यालय प्रातः 09.00 बजे से रात्रि 08.00 बजे तक खुल सकेंगे। शॉपिंग मॉल, जिम भी उक्त समय में खुल सकेंगे। तथापि सभी सिनेमा घर, थिएटर, स्वीमिंग पूल बंद रहेंगे।
- 6/ समस्त वृहद, मध्यम, लघु एवं सूक्ष्म उद्योग अपनी पूर्ण क्षमता पर कार्य कर सकेंगे तथा निर्माण गतिविधियां सतत चल सकेंगी।
- 7/ जिम एवं फिटनेस सेंटर्स रात 08.00 बजे तक 50% कैपेसिटी पर कोविड प्रोटोकॉल की शर्त का पालन करते हुए खुल सकेंगे।
- 8/ समस्त खेलकूद के स्टेडियम खुल सकेंगे किन्तु खेल आयोजनों में दर्शक शामिल नहीं हो सकेंगे।

12/6/21

- 9/ समस्त रेस्टोरेंट एवं क्लब 50% कैपेसिटी से रात्रि 10.00 बजे तक खुल सकेंगे। समस्त होटल एवं लॉज पूर्ण क्षमता अनुसार खुल सकेंगे।
- 10/ विवाह आयोजनों में दोनों पक्षों के मिलाकर अधिकतम 50 लोगों की उपस्थिति की ही अनुमति दी जा सकेगी। इस प्रयोजन के लिए आयोजक को जिला प्रशासन को अतिथियों के नाम की सूची आयोजन से पूर्व प्रदाय करना आवश्यक होगा।
- 11/ अधिकतम 10 लोगों के साथ ही अंतिम संस्कार की अनुमति दी जा सकेगी।
- 12/ रूल ऑफ़ सिक्स :- अनुमत्य गतिविधियों के अलावा किसी भी स्थान पर 6 से अधिक व्यक्तियों के एकत्र होने पर प्रतिबंध रहेगा।
- 13/ अन्तराज्यीय (inter state) तथा राज्यांतरिक (intra state) माल (goods) एवं सर्विसेज का आवागमन निर्बाध रहेगा।
- 14/ जिन ग्रामों में कोविड-19 के active cases पांच या पांच से अधिक हैं, उन्हें रेड ग्राम के रूप में चिन्हांकित किया गया है। रेड ग्रामों में तथा नगरीय क्षेत्रों के Micro containment zone/Containment zone में कोविड-19 संक्रमण के संबंध में केन्द्रीय स्वास्थ्य मंत्रालय द्वारा जारी दिशा-निर्देशों (guidelines) के अनुसार ही गतिविधियां संचालित हो सकेंगीं।
- 15/ पूरे प्रदेश के समस्त नगरीय क्षेत्रों में प्रत्येक रविवार जनता कर्फ्यू रहेगा, जो शनिवार रात्रि 10:00 बजे से सोमवार प्रातः 06:00 बजे तक प्रभावी रहेगा।
- 16/ पूरे प्रदेश के समस्त नगरीय क्षेत्रों में रात्रि 10:00 बजे से प्रातः 06:00 बजे तक नाईट कर्फ्यू रहेगा।
- 17/ परिशिष्ट-1 में संलग्न कोविड उपयुक्त व्यवहार (Covid Appropriate Behaviour) का पालन समस्त जन करें, इसके लिए व्यापक जन जागरूकता अभियान सतत् चलाया जावे।
- 18/ जिला प्रशासन कोविड-19 प्रोटोकॉल का जिला में पालन सुनिश्चित करावे तथा इनका उल्लंघन करने वालों पर वैधानिक कार्यवाही सुनिश्चित की जावे।
- 19/ उक्त दिशा-निर्देश दिनांक 30.06.2021 तक प्रभावशील रहेंगे। उपरोक्त दिशा निर्देशों को जिला आपदा प्रबंधन समिति से परामर्श कर यथोचित आदेश जारी करें। कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

संलग्न:-परिशिष्ट-1

  
(डॉ राजेश राजारा)  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2

भोपाल, दिनांक 15 जून, 2021

प्रतिलिपि-

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली
2. प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
3. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी ।
4. उप सचिव, मुख्य सचिव कार्यालय ।
5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
6. पुलिस महानिदेशक, म.प्र. ।
7. समस्त संभागायुक्त, म.प्र. ।
8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक
9. समस्त पुलिस अधीक्षक, म.प्र. ।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

कोविड-19 प्रोटोकॉल एवं कोविड उपयुक्त व्यवहार/अनुशासन

1. मध्यप्रदेश के व्यक्तियों और वस्तुओं के अंतर राज्य (Inter State) एवं राज्यांतरिक (Intra State) आवागमन निर्बाध रूप से संचालित होगा। अंतर राज्य (Inter State) मार्गों पर राज्य की सीमा पर प्रदेश में प्रवेश कर रहे नागरिकों की थर्मल स्क्रीनिंग की व्यवस्था की जाये।
2. दुकानों में गोले बनाकर ग्राहकों के मध्य पर्याप्त दूरी सुनिश्चित कर सोशल डिस्टेंसिंग का पालन किया जावे। "नो मास्क नो सर्विस" अर्थात् जिस ग्राहक ने फेस मास्क नहीं पहन रखा होगा तो उसको दुकानदार द्वारा कोई सामान विक्रय नहीं किया जायेगा। दुकानदार स्वयं भी अनिवार्य रूप से मास्क का उपयोग करेंगे। यदि कोई दुकानदार "नो मास्क नो सर्विस" प्रोटोकॉल का उल्लंघन करता पाया जाता है, तो दुकान को नियमानुसार सील करने की कार्यवाही की जाये।
3. अनुमत्य सामाजिक कार्यक्रमों (जैसे 10 व्यक्तियों की उपस्थिति में शवयात्रा अथवा 20 व्यक्तियों की उपस्थिति में विवाह आयोजन) में सामाजिक दूरी का पालन हो, हैण्डवॉश/सैनिटाइजेशन की व्यवस्था हो तथा सभी शामिल व्यक्ति फेस मास्क लगावें, इसे आयोजक द्वारा सुनिश्चित किया जाना आवश्यक होगा।
4. कोविड उपयुक्त व्यवहार :-

4.1 फेस मास्क (Face Mask) : फेस मास्क पहनना एक आवश्यक निवारक उपाय है। फेस मास्क पहनने में निम्न का पालन किया जाना चाहिए-

*रा  
प्राप्त*

- अपना मास्क लगाने से पहले, साथ ही इसे उतारने से पहले और बाद में, और किसी भी समय इसे छूने के बाद अपने हाथों को साफ करें।
- सुनिश्चित करें कि यह आपकी नाक, मुंह और ठुड़ी को पूरी तरह से कवर करे।
- जब आप किसी मास्क को उतारते हैं, तो उसे साफ प्लास्टिक बैग में स्टोर करें। कपड़े का मास्क है, तो उसे प्रतिदिन धो लें और मेडिकल मास्क को कूड़ेदान में फेंक दें।

सभी सार्वजनिक व कार्य स्थलों एवं परिवहन के दौरान फेस मास्क पहनना अनिवार्य होगा। "नो मास्क नो मूवमेंट" का सख्ती से पालन सुनिश्चित कराया जावे।

#### 4.2 सामाजिक दूरी (Social distancing) :

सामाजिक दूरी बनाये रखने के लिए जहां तक संभव हो प्रत्येक परिवार घर के अंदर ही रहें (Stay at home) एवं अन्य बाहरी व्यक्तियों से मेल-जोल कम रखें (Social distancing) जिससे कोविड संक्रमण को प्रभावी रूप से रोका जा सके।

सार्वजनिक स्थानों में प्रत्येक व्यक्ति 6 फिट यानी ("2 गज की दूरी") बनाये रखेगा। भीड़-भाड़ वाली जगहों, विशेषकर बाजारों, साप्ताहिक बाजारों और सार्वजनिक परिवहन में सामाजिक दूरी बनाये रखना संक्रमण के प्रसार को रोकने के लिए भी महत्वपूर्ण है। कार्यस्थलों के प्रभारी व्यक्तियों द्वारा श्रमिकों/कर्मियों के बीच पर्याप्त दूरी, पारियों को बदलने में पर्याप्त अन्तराल तथा लंच ब्रेक में उपयुक्त अन्तराल आदि के माध्यम से सामाजिक दूरी को सुनिश्चित किया जाये।

as  
15/6/23

सभी व्यक्तियों को यह सलाह दी जाती है कि वे किसी ऐसी सतह, जो सार्वजनिक संपर्क में है, को छूने के उपरांत साबुन और पानी से हाथ धोयें/सैनिटाइजर का उपयोग करें।

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन-462004

क्रमांक एफ 35-09/2020/दो/सी-2,

भोपाल, दिनांक 26 जून, 2021

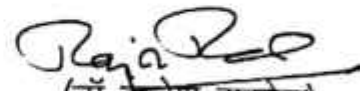
प्रति,

समस्त कलेक्टर एवं जिला दंडाधिकारी,  
मध्यप्रदेश।

विषय- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

संदर्भ- मध्यप्रदेश शासन गृह विभाग का पत्र क्र 35-09/2020/दो/सी-2  
दिनांक 15 जून, 2021.

1. उपरोक्त संदर्भित परिपत्र की कण्डिका-15 में प्रदेश के समस्त नगरीय क्षेत्रों में प्रत्येक रविवार जनता कर्फ्यू (शनिवार रात्रि 10 बजे से सोमवार प्रातः 6 बजे तक) प्रभावी रहने के निर्देश दिए गये थे। प्रदेश में कोविड-19 संक्रमण की दर में कमी को दृष्टिगत रखते हुए राज्य शासन द्वारा निर्णय लिया गया है कि प्रत्येक रविवार के जनता कर्फ्यू को जिला आपदा प्रबंधन समिति की अनुशंसा पर जिला कलेक्टर हटाने सम्बन्धी यथोचित आदेश जारी कर सकेंगे। उक्तानुसार आदेश जारी करने की स्थिति में जिले के समस्त नगरीय क्षेत्रों में कोविड-19 के रोकथाम के प्रोटोकॉल का पालन करते हुए रविवार को समस्त अनुमत्य गतिविधियाँ जैसे समस्त दुकानें, व्यावसायिक प्रतिष्ठान, होटल, रेस्टोरेंट, आदि खोले जा सकेंगे।
2. उक्त परिपत्र की कण्डिका-16 अनुसार प्रदेश के समस्त नगरीय क्षेत्रों में रात्रि 10 बजे से प्रातः 6 बजे तक नाईट कर्फ्यू पूर्ववत् रहेगा।
3. उपरोक्त दिशा-निर्देश तत्काल प्रभाव से लागू होंगे। उपरोक्त संदर्भित 15 जून, 2021 के दिशा-निर्देश की अन्य समस्त कण्डिकाएं पूर्ववत् प्रभावी रहेंगी।

  
(डॉ. राजेश राणा)

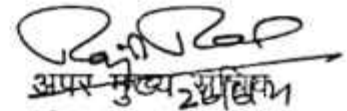
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2,

भोपाल, दिनांक 26 जून, 2021

प्रतिलिपि-

- 1 सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली
  - 2 प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
  - 3 विशेष कर्तव्यस्थ अधिकारी, माननीय गृहमंत्री जी ।
  - 4 उप सचिव, मुख्य सचिव कार्यालय ।
  - 5 अपर मुख्य सचिव/प्रमुख सचिव/सचिव-कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें ।
  - 6 पुलिस महानिदेशक, म.प्र. ।
  - 7 समस्त संभागायुक्त, म.प्र. ।
  - 8 समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
  - 9 समस्त पुलिस अधीक्षक, म.प्र. ।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।



अपर मुख्य सचिव  
मध्यप्रदेश शासन गृहविभाग

मध्यप्रदेश शासन

गृह विभाग,

मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 30 जून, 2021  
प्रति,


समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय:- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक  
दिशा-निर्देश।

संदर्भ:- विभागीय परिपत्र क्रमांक एफ 35-09/2020/दो/सी-2, दिनांक 15  
जून, 2021 एवं दिनांक 26 जून, 2021

राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कमी को  
दृष्टिगत रखते हुए कोरोना कर्फ्यू के प्रतिबंधों के सम्वन्ध में गृह विभाग के संदर्भित  
परिपत्रों के माध्यम से दिशा निर्देश जारी किये गये हैं, जो दिनांक 30 जून, 2021  
तक प्रभावशील हैं।

2/ उक्त संदर्भित दिशा निर्देश दिनांक 15 जून, 2021 एवं दिनांक 26 जून,  
2021 को यथावत लागू रखते हुए उक्त दिशा-निर्देश दिनांक 07 जुलाई, 2021  
तक प्रभावशील रहेंगे। कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

  
(डॉ. राजेश राजेश)

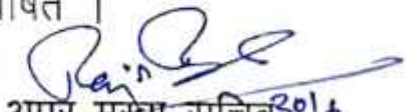
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2 भोपाल, दिनांक 30 जून, 2021  
प्रतिलिपि-

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली
2. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
3. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
4. उप सचिव, मुख्य सचिव कार्यालय।
5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित  
विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक  
दिशा-निर्देश जारी करने का कष्ट करें।
6. पुलिस महानिदेशक, म.प्र.।
7. समस्त संभागायुक्त, म.प्र.।
8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक
9. समस्त पुलिस अधीक्षक, म.प्र.।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव 30/6  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन

गृह विभाग,

मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/दो/सी-2, भोपाल, दिनांक 14 जुलाई, 2021  
प्रति,

समस्त कलेक्टर एवं जिला दण्डाधिकारी

म.प्र.

विषय:- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक दिशा-निर्देश।

संदर्भ:- विभागीय परिपत्र क्रमांक एफ 35-09/2020/दो/सी-2, दिनांक 15 जून, 2021, दिनांक 26 जून, 2021, 30 जून, 2021, 02 जुलाई, 2021 एवं 07 जुलाई, 2021


राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कमी को दृष्टिगत रखते हुए कोरोना कर्फ्यू के प्रतिबंधों के सम्बन्ध में जारी पूर्व आदेशों को अधिकमित करते हुए नवीन दिशा-निर्देश जारी किये जाते हैं जो तत्काल प्रभाव से प्रभावशील होंगे -

1. सभी सामाजिक/ राजनैतिक/ खेल/ मनोरंजन/ सांस्कृतिक/ धार्मिक आयोजन/ मेले आदि जिनमें जनसमूह एकत्र होता है, प्रतिबंधित रहेंगे।
2. स्कूल एवं कॉलेज खोले जाने के संबंध में सम्बन्धित विभागों द्वारा पृथक से आदेश जारी किये जा रहे हैं। तत्सम्बन्धी आदेश उक्तानुसार जारी होने तक स्कूल एवं कॉलेज बंद रहेंगे। समस्त कोचिंग संस्थान बंद रहेंगे। ऑनलाईन क्लासेस चल सकेंगी। प्रशिक्षण कार्यक्रम हॉल की 50 प्रतिशत क्षमता की सीमा तक संचालित किए जा सकेंगे।
3. सभी धार्मिक/पूजा स्थल खुल सकेंगे किन्तु एक समय में 06 से अधिक व्यक्ति उपस्थित नहीं रह सकेंगे तथा उपस्थित जनों को कोविड प्रोटोकॉल का पालन करना बंधनकारी होगा।
4. समस्त प्रकार की दुकानें, व्यावसायिक प्रतिष्ठान, निजी कार्यालय, शॉपिंग मॉल, जिम अपने नियत समय तक खुल सकेंगे। सिनेमा घर एवं थिएटर कुल क्षमता के 50 प्रतिशत की सीमा तक संचालित किए जा सकेंगे। सिनेमा घर संचालक को कोविड-19 प्रोटोकॉल का पालन सुनिश्चित कराना होगा।
5. समस्त वृहद, मध्यम, लघु एवं सूक्ष्म उद्योग अपनी पूर्ण क्षमता पर कार्य कर सकेंगे तथा निर्माण गतिविधियां सतत चल सकेंगी।
6. जिम एवं फिटनेस सेंटर्स 50 प्रतिशत क्षमता पर कोविड प्रोटोकॉल का पालन करते हुए खुल सकेंगे।
7. समस्त खेलकूद के स्टेडियम खुल सकेंगे किन्तु खेल आयोजनों में दर्शक शामिल नहीं हो सकेंगे।

02  
14/7/21

8. समस्त रेस्टोरेंट एवं क्लब 100 प्रतिशत क्षमता से कोविड-19 प्रोटोकॉल की शर्त का पालन करते हुए रात्रि 10.00 बजे तक खुल सकेंगे।
9. विवाह आयोजनों में दोनों पक्षों के मिलाकर अधिकतम संख्या 100 हो सकेंगी। इस प्रयोजन के लिए आयोजक को जिला प्रशासन को अतिथियों के नाम की सूची आयोजन से पूर्व प्रदाय करना आवश्यक होगा।
10. अधिकतम 50 लोगों के साथ अंतिम संस्कार की अनुमति दी जा सकेगी।
11. रूल ऑफ सिक्स :- अनुमत्य गतिविधियों के अलावा किसी भी स्थान पर 6 से अधिक व्यक्तियों के एकत्र होने पर प्रतिबंध रहेगा।
12. अन्तराज्यीय (inter state) तथा राज्यांतरिक (intra state) व्यक्तियों, माल (goods) एवं सर्विसेज का आवागमन निर्बाध रहेगा।
13. पूरे प्रदेश के समस्त नगरीय क्षेत्रों में रात्रि 11.00 बजे से प्रातः 06.00 बजे तक नाईट कर्फ्यू रहेगा।
14. उक्त दिशा-निर्देश दिनांक 31.07.2021 तक प्रभावशील रहेंगे। उपरोक्त दिशा निर्देशों को जिला आपदा प्रबंधन समिति से परामर्श कर यथोचित आदेश जारी करें।

कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

  
(डॉ. राजेंद्र सिंह)


अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

क्रमांक एफ 35-09/2020/दो/सी-2  
प्रतिलिपि-

भोपाल, दिनांक 14 जुलाई, 2021

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली
  2. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  3. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  4. उप सचिव, मुख्य सचिव कार्यालय।
  5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने विभाग से संबंधित विभाग के विभागाध्यक्षों को उक्त के संबंध में अपने स्तर से आवश्यक दिशा-निर्देश जारी करने का कष्ट करें।
  6. पुलिस महानिदेशक, म.प्र.।
  7. समस्त संभागायुक्त, म.प्र.।
  8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक
  9. समस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/सी-2/दो  
प्रति

भोपाल, दिनांक 31 जुलाई, 2021


समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक दिशा निर्देश।  
संदर्भ- विभागीय परिपत्र क्रमांक एफ 35-09/2020/सी-2/दो, दिनांक 14 जुलाई, 2021 एवं दिनांक 19 जुलाई, 2021।

राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कभी को दृष्टिगत रखते हुए कोरोना कर्फ्यू के प्रतिबन्धों के सम्बन्ध में गृह विभाग के संदर्भित परिपत्रों के माध्यम से दिशा निर्देश जारी किये गये हैं, जो दिनांक 31.07.2021 तक प्रभावशील हैं।

2/ उक्त संदर्भित दिशा निर्देश दिनांक 14 जुलाई, 2021 एवं दिनांक 19 जुलाई, 2021 को यथावत लागू रखते हुए उक्त दिशा निर्देश दिनांक 10 अगस्त, 2021 तक प्रभावशील रहेंगे।

कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

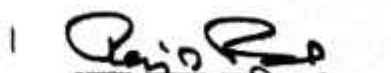
  
(डॉ. राजेंद्र सिंह)  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग

भोपाल, दिनांक 31 जुलाई, 2021

क्रमांक एफ 35-09/2020/सी-2/दो  
प्रतिलिपि

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली।
  2. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  3. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  4. उप सचिव, मुख्य सचिव कार्यालय।
  5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने स्तर से संबंधित विभाग के विभागाध्यक्षों को उक्त सम्बन्ध में अपने स्तर से आवश्यक दिशा निर्देश जारी करने का कष्ट करें।
  6. पुलिस महानिदेशक, म.प्र.।
  7. समस्त संभागायुक्त, म.प्र.।
  8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
  9. समस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

भोपाल, दिनांक 10 अगस्त, 2021

विषय— कोराना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक दिशा निर्देश।  
संदर्भ— विभागीय परिपत्र क्रमांक एफ 35-09/2020/सी-2/दो, दिनांक 14 जुलाई, 2021; दिनांक 19 जुलाई, 2021 एवं 31 जुलाई, 2021

2/ उक्त संदर्भित दिशा निर्देश दिनांक 14 जुलाई, 2021 एवं दिनांक 19 जुलाई, 2021 को यथावत लागू रखते हुए उक्त दिशा निर्देश दिनांक 20 अगस्त, 2021 तक प्रभावशील रहेंगे ।

अपर मुख्य सचिव  
जन्यप्रदेश शासन गृह विभाग  
भोपाल, दिनांक 10 अगस्त, 2021

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली ।
2. प्रमुख सचिव, मुख्यमंत्री कार्यालय ।
3. विशेष कर्तव्यरथ अधिकारी, माननीय गृह मंत्रीजी ।
4. उप सचिव, मुख्य सचिव कार्यालय ।
5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने स्तर से संबंधित विभाग के विभागाध्यक्षों को उक्त सम्वन्ध में अपने स्तर से आवश्यक दिशा निर्देश जारी करने का कष्ट करें ।
6. पुलिस महानिदेशक, म.प्र. ।
7. समस्त संभागायुक्त, म.प्र. ।
8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र. ।
9. समस्त पुलिस अधीक्षक, म.प्र. ।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

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सर्वोच्च प्राथमिकता

मध्यप्रदेश शासन  
गृह विभाग,  
मंत्रालय, वल्लभ भवन

क्रमांक एफ 35-09/2020/सी-2/दो  
प्रति

भोपाल, दिनांक 19 अगस्त, 2021


समस्त कलेक्टर एवं जिला दण्डाधिकारी  
म.प्र.

विषय- कोरोना वायरस संक्रमण के रोकथाम एवं बचाव हेतु आवश्यक दिशा निर्देश।  
संदर्भ- विभागीय परिपत्र क्रमांक एफ 35-09/2020/सी-2/दो, दिनांक 14 जुलाई, 2021, दिनांक 19 जुलाई, 2021, 31 जुलाई, 2021 एवं 10 अगस्त, 2021

राज्य के विभिन्न जिलों में कोविड-19 संक्रमण की दर में कमी को दृष्टिगत रखते हुए कोरोना कर्फ्यू के प्रतिबन्धों के सम्बन्ध में गृह विभाग के संदर्भित परिपत्रों के माध्यम से दिशा निर्देश जारी किये गये हैं, जो दिनांक 20.08.2021 तक प्रभावशील हैं।

2/ उक्त संदर्भित दिशा निर्देश दिनांक 14 जुलाई, 2021 एवं दिनांक 19 जुलाई, 2021 को यथावत लागू रखते हुए उक्त दिशा निर्देश दिनांक 31 अगस्त, 2021 तक प्रभावशील रहेंगे।


कृपया दिशा-निर्देशों का कड़ाई से पालन सुनिश्चित करें।

  
(डा. अनुराग सिंह)  
अपर मुख्य सचिव

मध्यप्रदेश शासन गृह विभाग  
भोपाल, दिनांक 19 अगस्त, 2021

क्रमांक एफ 35-09/2020/सी-2/दो  
प्रतिलिपि

1. सचिव, भारत सरकार, गृह मंत्रालय, नई दिल्ली।
  2. प्रमुख सचिव, मुख्यमंत्री कार्यालय।
  3. विशेष कर्तव्यस्थ अधिकारी, माननीय गृह मंत्रीजी।
  4. उप सचिव, मुख्य सचिव कार्यालय।
  5. अपर मुख्य सचिव/प्रमुख सचिव/सचिव- कृपया अपने स्तर से संबंधित विभाग के विभागाध्यक्षों को उक्त सम्बन्ध में अपने स्तर से आवश्यक दिशा निर्देश जारी करने का कष्ट करें।
  6. पुलिस महानिदेशक, म.प्र.।
  7. समस्त संभागायुक्त, म.प्र.।
  8. समस्त जोनल अतिरिक्त पुलिस महानिदेशक/पुलिस महानिरीक्षक म.प्र.।
  9. समस्त पुलिस अधीक्षक, म.प्र.।
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

  
अपर मुख्य सचिव  
मध्यप्रदेश शासन गृह विभाग

Ref No: KSTPP-LTSO-NTPC-L-106-1417

02 Mar 2020

To  
NTPC Limited  
(A Govt. of India Enterprise)  
Vishnupuri, Khandwa Road,  
Khargone (M.P.)  
Pin-451001

**Kind Attn:** Mr. Vepakomma Venkata Sivakumar, AGM(ME)

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)  
**Subject:** NTPC Khargone STPP (2x660 MW) Force Majeure conditions due to ongoing epidemic of coronavirus disease 2019 (COVID-19)

**References:**

Dear Sir,

This is in reference to the subject matter. You may be aware that the ongoing epidemic of coronavirus disease 2019 (COVID-19) has become a major concern in many countries across the globe. The outbreak of COVID-19 is causing far reaching consequences beyond the disease. Chinese industries are encountering with complete disruption in the manufacturing as well as supply chain activities resulting into severe delays in production and shipment of goods.

For the subject project, L&T has placed purchase order (PO) on M/s HTC, China for supply of Drive Turbine for BFPs. As a result of the ongoing epidemic of Coronavirus disease, supply of balance items under said PO is badly affected.

Since the aforesaid event/situation is beyond reasonable control, the same qualifies as 'Force Majeure' as per GCC clause 37. The implications arising out of the same shall be conveyed once the situation gets normalized.

**For Larsen & Toubro Limited**

Samudraman Bandopadhyay  
Head - Project & Contractor's Representative

**CC:** Mr. Ashim Kumar Goswami, CGM, NTPC Limited  
Mr. Suresh Kumar Narang, Vice President & Head – Engineering and Commercial, Larsen & Toubro Limited

**Ref No:** KSTPP-LTSO-NTPC-L-107-1473

**20 Mar 2020**

To  
NTPC Limited  
(A Govt. of India Enterprise),  
Khargone Super Thermal Power Project  
PO Khedi (Buzurg),  
SO: Bediya Distt. Khargone, M.P. - 451113

**Kind Attn:** Mr. Ashim Kumar Goswami, CGM

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)  
**Subject:** NTPC Khargone STPP (2x660 MW) Force Majeure conditions due to ongoing epidemic of Coronavirus disease 2019 (COVID-19)

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-106-1417</a>	02 Mar 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020

Dear Sir,

This is in reference to our earlier letter dated 02.03.2020 referred above in the subject matter. As you are aware that the ongoing epidemic of coronavirus disease 2019 (COVID-19) has become a major concern in many countries across the globe. Though outbreak in China, COVID-19 has gradually spread in countries including USA, Korea, Japan, Italy, France, UK, India etc. The outbreak of COVID-19 is causing far reaching consequences beyond the disease. In view of the same, various precautionary measures are being taken by respective Governments.

Government of India along with various State Governments have already issued advisories and put certain restrictions such as travel restrictions, working with limited staff etc. in order to control spreading of COVID-19. It would not be out of place to mention here that, Government of India, Ministry of Finance, vide Office Memorandum dated 19<sup>th</sup> Feb'2020, has also clarified to consider impact of Corona virus as "Force Majeure".

L&T as an EPC Contractor seeks substantial support from its collaborator, suppliers, service providers which are located in India as well as overseas. Ever since the outbreak of COVID-19, we have been confronted notable delay in the responses & deliverables from our partners, vendors and service providers. All this has already started to impact the overall progress of the project.

In view of above and as already intimated since the aforesaid event/situation is beyond reasonable control, the same shall be treated as Force majeure event under the Contract as per Clause No. 37 of GCC. The implications arising out of the same shall be conveyed once the situation gets normalized.

For **Larsen & Toubro Limited**



Samudraman Bandopadhyay  
Head - Project & Contractor's Representative

CC: Mr. Suresh Kumar Narang, Vice President & Head – Engineering and Commercial, Larsen & Toubro Limited

**Ref No:** KSTPP-LTSO-NTPC-L-107-1504

**24 Mar 2020**

To  
 NTPC Limited  
 (A Govt. of India Enterprise)  
 Vishnupuri, Khandwa Road,  
 Khargone (M.P.)  
 Pin-451001

**Kind Attn:** Mr. Vepakomma Venkata Sivakumar, AGM(ME)

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)  
**Subject:** NTPC Khargone STPP (2x660 MW) - Orders for total lockdown due to ongoing pandemic of Coronavirus disease 2019 (COVID-19) - Impact on works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1473</a>	20 Mar 2020
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-106-1417</a>	02 Mar 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020

Dear Sir,

This is further in continuation to our earlier letter(s) dated 02.03.2020 and 20.03.2020 referred above. We wish to highlight that Government of India along with various State Government(s) have been taking stringent steps for containment of spreading of COVID – 19 including lockdowns in certain areas, restrictions on transportation/ travelling etc.

Further, District Magistrate of Khargone vide order dated 24.03.2020 has declared total lock down with immediate effects upto midnight of 31.03.2020. Looking to aforesaid order of District magistrate, we are compelled to stop / suspend all on-goings works & site activities as there will be no movements of workmen, staff & equipment during this period. Copy of said order of District Magistrate of Khargone is attached herewith for your ready reference. In view of the present situation we are unable to carry out obligations under the Contract for reasons beyond our control, as a result of which there shall be impact on overall progress of works. The implications arising out of the same shall be conveyed once the situation gets normalized.

Thanking you and assuring you of our best services at all times.

**For Larsen & Toubro Limited**





**Ref No:** KSTPP-LTSO-NTPC-L-107-1505

**25 Mar 2020**

To  
NTPC Limited  
(A Government of India Enterprise)  
Engineering Office Complex  
A-8A, Sector-24, NOIDA-201301  
Uttar Pradesh, India

**Kind Attn:** Mr. Sanjay Deodhar, AGM(CS-II)

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)

**Subject:** NTPC Khargone STPP (2x660 MW) - Orders for total lockdown for 21 days due to ongoing pandemic of Coronavirus disease 2019 (COVID-19) – Suspension / Stoppage of Works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1504</a>	24 Mar 2020
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1473</a>	20 Mar 2020
3	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-106-1417</a>	02 Mar 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020
- (6) L&T letter no. KSTPP-LTSO-NTPC-L-107-1504 dated 24.03.2020

Dear Sir,

This is in continuation to our earlier letter(s) dated 02.03.2020, 20.03.2020 and 24.03.2020 referred above regarding the subject matter. We wish to highlight that Government of India along with various State Government(s) have been taking stringent steps for containment of spreading of COVID – 19 including total lockdowns, restrictions on transportation/travelling etc.

Further, Government of India on 24.03.2020 has declared total lock down w.e.f from 25.03.2020 00.00 Hrs for 21 days i.e. up to midnight of 14.04.2020. Looking to complete shutdown as announced by Government of India, all on-going works and site activities pertaining to subject project shall continue to remain shut / suspended as there will be no movements of workmen, staff & equipment during this period. Further, remobilizing fully at site will also be major concern after such long suspension / lockdown period(s).

Looking to the present situation we are unable to carry out obligations under the Contract for reasons beyond our control resulting into adverse impact on the overall progress of works which in turn will have impact the completion schedule of the project.

The implications arising out of the same shall be conveyed once the situation gets normalized.

Thanking you and assuring you of our best services at all times.

For **Larsen & Toubro Limited**

*Sandberg*

Samudraman Bandopadhyay

Head - Project & Contractor's Representative

CC: Mr. Ashim Kumar Goswami, CGM, NTPC Limited

Mr. Suresh Kumar Narang, Vice President & Head – Engineering and Commercial, Larsen & Toubro Limited

**Ref No:** KSTPP-LTSO-NTPC-L-107-1646

**16 May 2020**

To  
NTPC Limited  
(A Govt. of India Enterprise)  
Vishnupuri, Khandwa Road,  
Khargone (M.P.)  
Pin-451001

**Kind Attn:** Mr. Vepakomma Venkata Sivakumar, AGM(ME)

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)

**Subject:** NTPC Khargone STPP (2x660 MW) - Lockdown due to ongoing pandemic of COVID-19: Impact on works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1525</a>	25 Apr 2020
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1521</a>	20 Apr 2020
3	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1520</a>	15 Apr 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020
- (6) NTPC letter no. KGN/2020/Mech/L&T/2521 dated 24.03.2020
- (7) L&T letter no. KSTPP-LTSO-NTPC-L-107-1504 dated 24.03.2020
- (8) L&T letter no. KSTPP-LTSO-NTPC-L-107-1505 dated 25.03.2020
- (9) L&T letter no. KSTPP-LTSO-NTPC-L-107-1520 dated 15.04.2020
- (10) NTPC letter no. KGN/2020/ELEC/OTHER/2554 dated 17.04.2020
- (11) NTPC letter no. KGN/2020/Mech/L&T/2559 dated 18.04.2020
- (12) L&T letter no. KSTPP-LTSO-NTPC-L-107-1521 dated 20.04.2020
- (13) NTPC email dated 21.04.2020
- (14) L&T letter no. KSTPP-LTSO-NTPC-L-107-1525 dated 25.04.2020

Dear Sir,

This is in reference to various above cited correspondences in the subject matter. In this regard please refer our aforesaid letter dated 25<sup>th</sup> Mar'20 (ref. Sl.No. 08) wherein it was notified regarding the stoppage of works/ site activities w.e.f. 25<sup>th</sup> Mar'2020 in compliance to MoHA Gov Order dated 25<sup>th</sup> March'2020 for complete lockdown across the country for containment of spreading of COVID-19.

Subsequently, Government of India has further extended the lockdown period till 3rd May'2020 vide MoHA Order dated 14th Apr'2020 and issued revised advisory regarding measures to be taken for the containment of spread of Covid-19. Based on the said revised advisory, permission/approval was obtained by NTPC from District Magistrate, Khargone for resumption of site activities w.e.f. 21<sup>st</sup> Apr'2020.

Government of India, vide MoHA (Ministry of Home Affairs) Order No. 40-3/2020-DM-I(A) dated 01<sup>st</sup> May'2020 has extended the complete lockdown in all the parts of the Country for a further period of two weeks i.e. till up to 17<sup>th</sup> May'2020 midnight and issued new guidelines w.e.f. 4<sup>th</sup> May'2020. A copy of said order dated 1<sup>st</sup> May'2020 is attached herewith. As per the said revised new guidelines, activities such as passenger movements/travelling etc. continued to remain prohibited across the country. Whereas, depending upon categorization of various areas in to Red, Green and Orange Zones, measures/ guidelines have been issued. Looking to aforesaid, it may please be noted that overall situation is yet to be normalized and impact of Covid-19 is still continuing.

It is worthwhile to mention here that given the present scenario even with the resumption of site activities due to various factors, there has been substantial reduction in the rate of progress of works and reduced work productivity which in turn are going to impact the overall progress & completion. Some of factors affecting the progress are briefly described as under -

1. Activities are being carried out in strict compliance to guidelines issued for prevention of spread of COVID-19 including strict adherence to social distancing. This definitely impacted on number of workmen / staffs to be engaged for particular activity, smooth movement etc. leading to low productivity and substantial reduction in the rate of progress.
2. Travelling restrictions (inter district/interstate/ area-wise, depending upon containment zones) still remain enforceable till further orders from Government. As a result, there are constraints on travelling of various personnel concerned with the execution of the works.
3. Due to restriction in interstate and inter district movement procurement and inflow of Project Materials such as Aggregates, regular and fast-moving consumables & other construction materials, other relevant items, Tools and plants etc. remains badly affected.
4. Procurement of Bought out Items are also affected severely due to restriction in interstate movement of goods. Further, production of material in vendors premises (covered under hotspot / red zone) are getting affected due to lockdown extension or even further later depending upon the situation. Inspection of material at vendor place also cannot be done due to restriction in movement of individual & Public transport system.
5. Additional precautionary measures are being implemented such as sanitization of work premises, transportation vehicle of staff/labour, distribution of PPE etc.
6. Vide its Order dated 29<sup>th</sup> Apr'2020, MoHA, GoI has allowed for movement of stranded workmen. Thus, though some workmen/staff are presently staying in the colony(ies)/residential areas within or near to plant premises, in view of aforesaid order and/or post removal of imposed lockdown/travelling restrictions, possibility cannot be ruled out that, such workmen/staff will travel to respective home towns/native places. In such scenario, non-availability of sufficient workforce shall further hamper the pace of works and productivity.

Please note that above mentioned factors are few inter-alia the other ones, such as, working at offices with limited employees, strict implementation of social distancing etc. are leading to constraints on smooth operations. All these are having substantial impact on the overall work progress. Therefore, even after resumption of works at site, the event of "Force Majeure" pertaining to Covid-19 continue to impact the overall progress of the works. Please note that all this is resulting into incurring of additional expenditure & time by L&T and the implications arising out of the same shall be conveyed once the situation gets normalized.

Thanking You and assuring of our best services for all the times.

For **Larsen & Toubro Limited**



Samudraman Bandopadhyay

Head - Project & Contractor's Representative

Encl. MoHA\_GoI Order dtd 01.05.2020.pdf

CC:

**Ref No:** KSTPP-LTSO-NTPC-L-107-1852

**10 Apr 2021**

To  
NTPC Limited  
(A Govt. of India Enterprise)  
Vishnupuri, Khandwa Road,  
Khargone (M.P.)  
Pin-451001

**Kind Attn:** Mr. B K Urmalia, AGM

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)  
**Subject:** NTPC Khargone STPP (2x660 MW) - Orders for total lockdown due to ongoing pandemic of Coronavirus disease 2019 (COVID-19) - Impact on works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1734</a>	02 Jun 2020
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1681</a>	22 May 2020
3	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1646</a>	16 May 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020
- (6) NTPC letter no. KGN/2020/Mech/L&T/2521 dated 24.03.2020
- (7) L&T letter no. KSTPP-LTSO-NTPC-L-107-1504 dated 24.03.2020
- (8) L&T letter no. KSTPP-LTSO-NTPC-L-107-1505 dated 25.03.2020
- (9) L&T letter no. KSTPP-LTSO-NTPC-L-107-1520 dated 15.04.2020
- (10) NTPC letter no. KGN/2020/ELEC/OTHER/2554 dated 17.04.2020
- (11) NTPC letter no. KGN/2020/Mech/L&T/2559 dated 18.04.2020
- (12) L&T letter no. KSTPP-LTSO-NTPC-L-107-1521 dated 20.04.2020
- (13) NTPC email dated 21.04.2020
- (14) L&T letter no. KSTPP-LTSO-NTPC-L-107-1525 dated 25.04.2020
- (15) L&T letter no. KSTPP-LTSO-NTPC-L-107-1646 dated 16.05.2020
- (16) L&T letter no. KSTPP-LTSO-NTPC-L-107-1734 dated 02.06.2020

Dear Sir,

This is in reference to the subject matter. Vide our various correspondences as referred above, we have been highlighting regarding the impact on the works due to prevailing situation of COVID-19 pandemic and implications arising thereof.

Further, District Magistrate of Khargone vide order dated 01.04.2021 has declared total lock down from 02.04.2021 - 08:00 PM to 05.04.2021 - 06:00 AM. Copy of said order of District Magistrate of Khargone is attached herewith for your ready reference.

It is worthwhile to mention here that despite of lockdown notice we tried to maintain the continuity of site activities which are ongoing at this juncture, though various factors, such as strict adherence to social distancing, implementation of precautionary measures, non-availability of sufficient workforces etc. due to which progress of works is continued to remain affected, which in turn, shall have impact on overall completion.

In view of above and ongoing pandemic of COVID-19, even with resumption of works, the event of "Force Majeure" shall remain to continue to have impact on progress of the works till normalcy in overall situation is established. Implications arising out of the same shall be conveyed in due course.

Thanking you and assuring you of our best services at all times.

For **Larsen & Toubro Limited**



Samudraman Bandopadhyay  
Head - Project & Contractor's Representative

Encl. 21.04.01 - Order District Magistrate of Khargone dated 01.04.21.pdf

CC: Mr. Manoj Kumar Singh, CGM, NTPC Limited

**Ref No:** KSTPP-LTSO-NTPC-L-107-1520

**15 Apr 2020**

To  
NTPC Limited  
(A Government of India Enterprise)  
Engineering Office Complex  
A-8A, Sector-24, NOIDA-201301  
Uttar Pradesh, India

**Kind Attn:** Mr. Sanjay Deodhar, AGM(CS-II)

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)

**Subject:** NTPC Khargone STPP (2x660 MW) - Extension in period of total lockdown due to ongoing pandemic of COVID-19: Suspension/ Stoppage of works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1505</a>	25 Mar 2020
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1504</a>	24 Mar 2020
3	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1473</a>	20 Mar 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020
- (6) L&T letter no. KSTPP-LTSO-NTPC-L-107-1504 dated 24.03.2020
- (7) L&T letter no. KSTPP-LTSO-NTPC-L-107-1505 dated 25.03.2020

Dear Sir,

This is in reference to our various letters cited above regarding the impact of on-going pandemic of COVID-19 on the Project. In this context please refer our letter dated 25-March'2020 vide which it was notified regarding the complete stoppage / suspension of on-going works and site activities pertaining to above referred project w.e.f. 25th Mar'2020 for 21 days in compliance to Government of India order for complete lockdown across the country for containment of spreading of COVID-19.

In continuation, Government of India on 14-April'2020, in view of prevailing situation of on-going pandemic of COVID-19, has extended the complete lockdown across the country till 3-May'2020 midnight. Thus, in compliance to the same, all activities including site activities pertaining to subject project shall continue to remain shut / suspended till lifting of complete lockdown by Government of India and normalization of the overall situation. Please note that even upon lifting of lock down after such long suspension / lockdown period (s), remobilizing fully at site will be major concern.

Looking to aforesaid, it may please be noted that we are unable to carry out obligations under the Contract for reasons beyond our control resulting into adverse impact on the overall progress of work which in turn impact the overall completion schedule of the project. The implications arising out of the same shall be conveyed once the situation gets normalized.

Thanking You and assuring of our best services for all the times.

For **Larsen & Toubro Limited**

*Sandberg*

Samudraman Bandopadhyay  
Head - Project & Contractor's Representative

CC: Mr. Ashim Kumar Goswami, CGM, NTPC Limited  
Mr. Suresh Kumar Narang, Vice President & Head – Engineering and Commercial, Larsen & Toubro Limited

**Ref No:** KSTPP-LTSO-NTPC-L-107-1853

**22 Apr 2021**

To  
NTPC Limited  
(A Govt. of India Enterprise)  
Vishnupuri, Khandwa Road,  
Khargone (M.P.)  
Pin-451001

**Kind Attn:** Mr. B K Urmalia, AGM

**Project:** Khargone Super Thermal Power Project (2 X 660 MW)  
**Subject:** NTPC Khargone STPP (2x660 MW) - Orders for total lockdown due to ongoing pandemic of Coronavirus disease 2019 (COVID-19) – Suspension / Stoppage of Works

**References:**

SN.	Agency	Reference Number	Date
1	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1852</a>	10 Apr 2021
2	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1734</a>	02 Jun 2020
3	LTSO	<a href="#">KSTPP-LTSO-NTPC-L-107-1681</a>	22 May 2020

**Additional References:**

- (1) Contract Agreement(s) No. CS-9578-001(R1)-2-FC-COA-6328 dated 03.04.2015
- (2) Contract Agreement(s) No. CS-9578-001(R1)-SC-COA-6329 dated 03.04.2015
- (3) Contract Agreement(s) No. CS-9578-001(R1)-2-TC-COA-6330 dated 03.04.2015
- (4) L&T letter no. KSTPP-LTSO-NTPC-L-106-1417 dated 02.03.2020
- (5) L&T letter no. KSTPP-LTSO-NTPC-L-107-1473 dated 20.03.2020
- (6) NTPC letter no. KGN/2020/Mech/L&T/2521 dated 24.03.2020
- (7) L&T letter no. KSTPP-LTSO-NTPC-L-107-1504 dated 24.03.2020
- (8) L&T letter no. KSTPP-LTSO-NTPC-L-107-1505 dated 25.03.2020
- (9) L&T letter no. KSTPP-LTSO-NTPC-L-107-1520 dated 15.04.2020
- (10) NTPC letter no. KGN/2020/ELEC/OTHER/2554 dated 17.04.2020
- (11) NTPC letter no. KGN/2020/Mech/L&T/2559 dated 18.04.2020
- (12) L&T letter no. KSTPP-LTSO-NTPC-L-107-1521 dated 20.04.2020
- (13) NTPC email dated 21.04.2020
- (14) L&T letter no. KSTPP-LTSO-NTPC-L-107-1525 dated 25.04.2020
- (15) L&T letter no. KSTPP-LTSO-NTPC-L-107-1646 dated 16.05.2020
- (16) L&T letter no. KSTPP-LTSO-NTPC-L-107-1734 dated 02.06.2020
- (17) L&T letter no. KSTPP-LTSO-NTPC-L-107-1852 dated 10.04.2021

Dear Sir,

This is in reference to various above cited correspondences in the subject matter. In continuation to the same, we would like to bring to your kind notice that Madhya Pradesh Government, vide Order No. F35-09/2020/DO/ C-2 Bhopal, dated 07th Apr'2021, has further extended the lockdown across the State till 17th Apr'2021 & further District Magistrate of Khargone vide order dated 18.04.2021 has extended as "Corona Curfew" till 26.04.2021. Copy of said order of District Magistrate of Khargone is attached herewith for your ready reference.

Thus, it may please be noted that overall situation has become uncontrollable due COVID-19 pandemic (2nd

wave). Day by day the number of infected persons were in increasing trend in all over the country including the state of Madhya Pradesh & Khargone district.

Needless to mention that many employees of L&T and NTPC are suffering from COVID-19 as on date and admitted at various hospitals where there is limitation of beds and treatment. Some employees of both L&T and NTPC are in home isolation /quarantine for above. Also, we would like to inform that all nearby hospitals (in 40-60 KM radius) at Kasarawad, Sanawad & Khargone are running short of beds and also hospitals at Indore are not admitting any patient citing waiting period of 3-4 days.

Recently the 2nd wave has started spreading in nearby villages violently and we fear it will take no time to spread to our labour colonies where approx. 500+ labourers (260 FGD + 250 EPC) are staying at present.

Supply of Oxygen cylinders to industries including Khargone STPP has been banned by State authorities since 1st week of April'2021 due to which all our suppliers are not supplying oxygen cylinders to us which has affected the Mechanical works very badly.

Based on above facts and giving importance to human lives, we are suspending all construction activities for next 2 weeks at Khargone STPP beyond "Corona Curfew" i.e from 26<sup>th</sup> Apr 21 to break spreading the chain of this deadly virus after which shall re-start the work only if situation tends to normalcy.

Looking to the present situation we are unable to carry out obligations under the Contract for reasons beyond our control resulting into adverse impact on the overall progress of works which in turn will have impact the completion schedule of the project. During this period, (i) we shall be available in our office for essential services and (ii) shall try to retain the present labourers in labour colonies where we shall ensure proper sanitization and also follow the SOPs of COVID-19 prevention.

In view of above and as already intimated since the aforesaid event/situation is beyond reasonable control, the same shall be treated as Force majeure event under the Contract as per Clause No. 37 of GCC. The implications arising out of the same shall be conveyed once the situation gets normalized.

Thanking you and assuring you of our best services at all times.

For **Larsen & Toubro Limited**



Samudraman Bandopadhyay  
Head - Project & Contractor's Representative

Encl. 21.04.07 - Sr. no. 35, Home Department Madhya Pradesh.pdf

21.04.18 – Order of District Magistrate of Khargone.pdf

CC: Mr. Manoj Kumar Singh, CGM, NTPC Limited



# JMC Projects (India) Ltd.

ENGINEERS & CONSTRUCTORS  
(A KALPATARU GROUP ENTERPRISE)

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Ref. No.: JMC/I&P/KRGN/2020-21/2885

To

The Engineer in Charge,  
NTPC LIMITED, Khargone Super Thermal Power Plant,  
Sanawad S.O., Taluk- Barwaha,  
Khargone, Madhya Pradesh - 451111.

Kind Attention: Mr. P R Verma, AGM (O&M-Civil)

Subject: Construction of Township Main Package for Khargone Super Thermal Power Plant (2 X 660 MW) in the state of Madhya Pradesh - Notice under Clause 10.4.3 of the Agreement

- Ref:-
1. Letter of Award no. CS-9578-364-9-CS-LOA-6509 dated 14.09.2016
  2. Your letter Ref. No. KGN/2020/RS/JMC/2518 dated 24.03.2020
  3. Our Email dated 25.03.2020 at 18:02 hours
  4. Our Email dated 04.04.2020 at 19:19 hours
  5. Our Email dated 23.04.2020 at 13:45 hours
  6. Our Letter Ref. No.: JMC/I&P/KRGN/2020-21/2847 dated 30.04.2020
  7. Our Email dated 27.05.2020 at 18:25 hours
  8. Our Letter Ref. No.: JMC/I&P/KRGN/2020-21/2862 dated 27.05.2020

Dear Sir,

We write to you in continuation of our e-mails and letters at Ref. No. 2 to 8, wherein we had notified you of various instances of Change in Legislation, as per the provisions of the contract agreement.

You are aware that the Government of Madhya Pradesh, had invoked the provisions of Epidemic Disease Act, 1897 vide Notification dated 23.03.2020 and had framed Regulations for prevention and containment of Coronavirus Disease-2019 (Covid-19), known as "The Madhya Pradesh Epidemic Diseases, COVID-19 Regulations, 2020" and according to these newly formed regulations, all advisories issued/to be issued by the Government of India on COVID-19 would ipso facto be treated as directions under the Epidemic Diseases Act, 1897 in the state of Madhya Pradesh. It is pertinent to note that the District Magistrate of Khargone, had stopped all work through order dated 24.03.2020, and the same was intimated by you on 24.03.2020.

You will recall our email dated 25.03.2020, wherein we had notified you that a 21 days lockdown has been imposed. The Ministry of Home Affairs, Government of India, on 24.03.2020 (through order 40-3/2020-DM-I(A)), under exercise of its power under section 10(2)(i) of the Disaster Management Act, 2005 had imposed a complete lockdown and total ban was imposed on people, from stepping out of their homes or accommodations (wherever they are) for a period of 21 days. Accordingly, for the next 21 days by operation of laws, we were completely stopped from working at site. As a result, all our resources were idling at site as our work had come to a standstill and no works could be carried out at site despite being fully mobilized at site with all required manpower and machinery. The Order prescribing the lockdown measures continued from time to time and is presently in force till 31 July 2020.

*KGM*

Page 1 of 3 4815

02/07/2020

**Committed to time & quality**

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We had again written to you, on 04.04.2020 intimating you that the Order dated 20.03.2020 bearing DO No. M-11011/08/2020-Media issued by the Secretary to Government of India, Ministry of Labour and Employment to the Chief Secretaries of all States and UTs, had made it mandatory to pay wages and provide other facilities to all the employees/ workers at site for the entire duration despite the fact that no work could be done due to the impact of Covid-19. As per the said order we were mandatorily required to pay wages and provide other facilities to all the employees/ workers at site for the entire duration when no work could be done due to the impact of Covid-19. The order is also categorical that even if an employee/worker is on leave during this period, he/she will be deemed to be on duty and paid full salary without any consequential deduction. Further, if the place of employment is made non-operational due to COVID-19, the employees of such unit will also be deemed to be on duty. We have ensured compliance to the above order and made payment of full wages to all employees/ workers, permanent or contractual, during the period of COVID-19. In our letter, we had requested you to arrange to reimburse the expenses incurred by us towards costs for payment of wages and other costs.

Subsequently, through our email dated 23.04.2020, we intimated you that we resumed work at site, and specifically stated that the construction works were resumed only with the existing manpower staying at the labour camp and other available resources at site as supply and transportation of even basic construction materials to site is hampered due to statutory lockdown restrictions in major parts of the country. Therefore, for this entire period between 25.03.2020 and 22.04.2020, owing to the operation of various Central and State Government Orders, our work at site was at a complete standstill and you were notified promptly regarding the same. The list of idle resources at site was also sent to you vide our letter bearing reference no. JMC/I&P/KRGN/2020-21/2847 dated 30.04.2020.

In this regard we would like to point out that Change in Law is dealt with in terms of Clause 10.4.3 of the Agreement, which is reproduced herein below as:

*If due to an enactment of any new Act or Statute and rules made thereunder or any modification to the Act/Statute or rules made thereunder, all after seven (7) days prior to the date set for opening of bid and as a consequence thereof, the Contractor has to incur additional cost or expenditure, the same will be reimbursed by the Employer to the Contractor excepting those due to reasons attributable to the contractor and those already compensated by other provisions of the Contract like Price Adjustment, Taxes and Duties, etc.*

It is evident that Change in Law would mean change in any law, act, rule, including any modification thereof, which has the force of law. As per the principle of "ejusdem generis" an order or guideline issued under a statute and having the force of law can also be read as a change of law. Therefore, the present lockdown measures taken by the Government Instrumentalities by invoking the provisions of the Disaster Management Act, 2005, Epidemic Diseases Act, 1897 and The Madhya Pradesh Epidemic Diseases, COVID-19 Regulations, 2020, is a Change in Law event. We would like to reiterate that, owing to the aforementioned Change in law, we are incurring significant costs, including but not limited to the idleness of the assets and manpower and Covid specific expenditure. The operations of these laws has had a direct impact on execution of works by us. Both at the Central and State government level, various laws have been made applicable and operational, which were not operational at the time we made our bid and has resulted in an increase in costs to us. The new rules and regulations imposed by the Local, State and Central Government had also significantly affected the pattern of Construction activities. Accordingly, the contract allows us remedies under clause 10.4.3.

Further, through our letter bearing reference no. JMC/I&P/KRGN/2020-21/2862 dated 27.05.2020 contained in our email dated 27.05.2020, we have intimated you that the numerous government orders that have stopped our works and the effect of the same has been continuous and are covered



under clause 10.4.3 of the Agreement, we submitted our detailed interim payment (under the heads of unrecovered Site Overheads and Rental Charges, Unrecovered Head office and Regional Office Overhead Expenses, Wages paid to workmen during lockdown and associated statutory compliances, Rental Charge of Hired Equipment and Interest on Material inventory), for the period of 25.03.2020 till 22.04.2020. We once again request you to release these interim payments at the earliest.

We would also like to highlight that owing to the various orders and SOPs in place on account of the instructions from the Government instrumentalities applicable to the project, the work at project site is still impacted. This Covid-19 and consequent lockdown, which is still continuing has impacted the availability of manpower, resource, input material and working hours. The restrictions are still in place in the nature of lockdown, social distancing and/or night curfew. All these impacts are still ongoing. As of today, it is not possible to predict that how long these measures will be in force. As the situation has a continuing effect, it will have a continuous impact on the project. We are in the process of computing the effects and shall send the final claims at the appropriate time, after the Change in Legislation event is over.

This letter is without prejudice to any of our other rights and remedies available under the contract agreement.

Thanking you and assuring our best services at all time,

Yours faithfully,

For, M/s JMC PROJECTS (INDIA) LTD.,

**Kishalay Ghosh**

**Authorized Signatory**



# JMC Projects (India) Ltd.

ENGINEERS & CONSTRUCTORS  
(A KALPATARU GROUP ENTERPRISE)

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Ref: JMC/I&P/KRGN/2020-21/ 2916

Date: 05<sup>th</sup> August 2020

To

The Engineer-In-Charge,  
NTPC LIMITED, Khargone Super Thermal Power Plant,  
Sanawad S.O., Taluk- Barwaha,  
Khargone, Madhya Pradesh - 451111

Kind Attention: Mr. P R Verma, AGM (O&M - Civil)

**Sub:** Construction of Township Main Package for Khargone Super Thermal Power Project (2X660 MW) in the State of Madhya Pradesh - Regarding the imposed lockdown in recurring days in District by local authorities

**Ref:** 1. Letter of award no. CS-9578-364-9-CS-LOA-6509 dated 14<sup>th</sup> September 2016  
2. Khargone District Collector Order dated 25<sup>th</sup> July 2020 regarding restrictive lockdown

Dear Sir,

This is with reference to the above cited District Collector Order on 25<sup>th</sup> July 2020, vide which the Collector had imposed a restrictive lockdown in entire District on Sunday & Monday of every week till 24<sup>th</sup> September 2020, to prevent & control the spread of COVID-19 in Khargone. During this period all the movement of people/ material is strictly restricted by Authorities in district.

In view of said statutory Orders, please note that it shall be impossible for the workers / materials required for the project works to reach the site during the lockdown period. Nonetheless, keeping in view the exigency in essential construction maintenance activities, workers available in our labour camps & from nearest villages are engaged in the project maintenance activities such as concrete curing works, horticulture works, housekeeping, electrical, plumbing & elevator works, etc., by adapting all the relevant safety & social distance protocols in workplace.

It would be pertinent to mention here that due to the above restrictions imposed by Local, State and Central Government authorities, the project works are being hampered and it is impossible to achieve the planned progress (physical and financial) and it shall prolong the completion schedule of the Project. Further, please note that due to the intermittent lockdowns, the works are adversely impacted and the additional costs being incurred by us shall be intimated to NTPC in forthcoming days.

The above is for your kind information and records, please.

Page 1 of 2

**Committed to time & quality**

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Thanking you and assuring our best services all the times.

Yours faithfully,

For, M/s JMC PROJECTS (INDIA) LTD.,



Fakhre Mateen

Authorized Signatory

**Enclosures:**

**Annexure 1** – A copy of District News Portal webpage on 25<sup>th</sup> July 2020 stating the Khargone Collector orders on the restrictive lockdown in whole district on every Sunday & Monday till 24<sup>th</sup> September 2020



# JMC Projects (India) Limited

ENGINEERS & CONSTRUCTORS  
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Ref. No.: JMC/I&P/KRGN/2021-22/ 3058

Date: 12-04-2021

To

The Engineer in Charge,  
NTPC LIMITED, Khargone Super Thermal Power Plant,  
Sanawad S.O., Taluk- Barwaha,  
Khargone, Madhya Pradesh – 451111.

Kind Attention: Mr. P R Verma, AGM (O&M-Civil)

**Sub:** Construction of Township Main Package for Khargone Super Thermal Power Plant (2 x 660 MW) in the state of Madhya Pradesh – Regarding the rapid spread of Coronavirus Second wave and enforcement of lockdown/ restrictions by statutory authorities

- Ref:**
1. Letter of Award No. CS-9572-364 (R)-9-CS-LOA-6416 dated 30<sup>th</sup> September 2015
  2. Contract Agreement No. CS-9572-364(R)-9-CS-COA-6416 dated 30<sup>th</sup> October 2015
  3. News copy from Department of Public Relation M.P. dated 07<sup>th</sup> April 2021 regarding imposition of Night Curfew and weekend lockdowns on Sunday in MP
  4. Khargone District Collector Order dated 09<sup>th</sup> April 2021

Dear Sir,

This is to bring to your notice that the State and Central Governments / statutory authorities are taking strict measures to control the rapid spread of the second wave COVID-19.

During a high level committee meeting held on 07<sup>th</sup> April 2021, the Committee under the leadership of Hon'ble Chief Minister Shri Shivraj Singh decided to impose severe restrictions all over the state keeping in view of increasing infection of COVID-19 in the state. Further, vide the order dated 09<sup>th</sup> April 2021, Khargone District Collector had enforced lockdown in whole district from 09<sup>th</sup> Apr'21 9pm till 19<sup>th</sup> Apr'21 6 am.

In view of above said statutory orders, we hereby notify NTPC that it would not be possible for the workers / materials required for the project works to reach the site during the restrictive lockdown period although all resources are deployed for the project. It would also be pertinent to mention here that due to the above said restrictions imposed by Local, State and Central Government authorities, the project works are being hampered and it is impossible to achieve the planned progress (physical and financial).

Further, please treat this as an advance notice for seeking associated time. Impact of lockdown on the project will be submitted once this event ceases to exist and we are able to gauge the overall impact.

The above is for your kind information and necessary records, please.

Thanking you and assuring our best services all the times.

Page 1 of 2

Yours faithfully,

For, M/s JMC PROJECTS (INDIA) LTD.,



**Anas Farooq**

**Authorized Signatory**

**Enclosures:**

**Annexure 1** - News copy from Department of Public Relation M.P. dated 07<sup>th</sup> April 2021 regarding imposition of Night Curfew and weekend lockdowns

**Annexure 2** - Khargone District Collector Order dated 09<sup>th</sup> April 2021 regarding lockdown till 19<sup>th</sup> April 2021



# JMC Projects (India) Limited

ENGINEERS & CONSTRUCTORS

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Ref. No.: JMC/I&P/KRGN/2021-22/ 3067

Date: 29-04-2021

To

**The Engineer in Charge,**

**NTPC LIMITED, Khargone Super Thermal Power Plant,**

**Sanawad S.O., Taluk- Barwaha,**

**Khargone, Madhya Pradesh – 451111.**

**Kind Attention: Mr. P R Verma, AGM (O&M-Civil)**

**Sub: Construction of Township Main Package for Khargone Super Thermal Power Plant (2 x 660 MW) in the state of Madhya Pradesh – Regarding Enforcement of Lockdown/ Restrictions by statutory authorities on account of Coronavirus second wave**

**Ref:** 1. Letter of award no. CS-9578-364-9-CS-LOA-6509 dated 14<sup>th</sup> September 2016  
2. Our letter no. JMC/I&P/KRGN/2020-21/2973 dated 17<sup>th</sup> October 2020  
3. Our letter no. JMC/I&P/KRGN/2021-22/3058 dated 12<sup>th</sup> April 2021  
4. NTPC letter no. KGN/2021/RS/JMC/3124 dated 19<sup>th</sup> April 2021

Dear Sir,

This has reference to above cited NTPC letter dated 19<sup>th</sup> Apr'21, wherein you have informed us that NTPC and its affiliated office / site works are exempted from the imposed restrictions by statutory authorities.

However, please note that though Khargone District Magistrate have provided exemptions for NTPC & its affiliated works from imposed restrictions in Khargone District, neighbouring districts such as Indore, etc., and States such as Maharashtra, Gujarat, etc., have imposed severe restrictions / curfews in all over their jurisdictions. Consequently, our vendors (who have manufacturing plants in the said locations) are facing several difficulties and not being able to supply the requisite resources (material, workers, etc.) to site due to the government imposed restrictions prevalent all the over the Country. A copy of restrictive orders by Indore District Authorities, Maharashtra Govt. Authorities, are attached with letter for your ready reference and records.

As a result of above restrictive orders, following activities at project works are critically hampered.

1. Supply of Elevator Mandatory Spares
2. Snag points in STP works



3. Solar light works
4. Chain link fencing works

The overall impact of this impediment can be assessed when the imposed restrictions are withdrawn/ removed and the same shall be informed to you in due course along with associated time and cost impact.

This is for your kind information and records, please.

Thanking you and assuring you of our best services at all times.

Yours faithfully,

For, M/s JMC PROJECTS (INDIA) LTD.,



Anas Farooq

Authorized Signatory

Ref. No.: JMC/B&F/EIO/KRGN/2021-22/3096

Date: 08.07.2021

To,  
The Engineer in Charge,  
NTPC LIMITED, Khargone Super Thermal Power Plant,  
Sanawad S.O., Taluk- Barwaha,  
Khargone, Madhya Pradesh – 451111.

Kind Attention: Mr. P R Verma, AGM (O&M - Civil)

**Project:** Construction of Township Main Package for Khargone Super Thermal Power Plant  
(2 x 660 MW) in the state of Madhya Pradesh

**Subject:** Notice under Clause 10.4.3 of the Agreement

- Ref:-
1. Letter of award no. CS-9578-364-9-CS-LOA-6509 dated 14<sup>th</sup> September 2016
  2. JMC letter no. JMC// I&P/KRGN/2019-20/2812 dated 17<sup>th</sup> March 2020
  3. JMC letter no. JMC/ I&P/KRGN/2019-20/2815 dated 21<sup>st</sup> March 2020
  4. JMC email dated 25<sup>th</sup> March 2020
  5. JMC email dated 25<sup>th</sup> March 2020
  6. JMC email dated 04<sup>th</sup> April 2020
  7. JMC letter no. JMC/ I&P/KRGN/2020-21/2828 dated 16<sup>th</sup> April 2020
  8. JMC email dated 23<sup>rd</sup> April 2020
  9. JMC letter no. JMC/ I&P/KRGN/2020-21/2847 dated 30<sup>th</sup> April 2020
  10. JMC letter no. JMC/I&P/KRGN/2020-21/2854 dated 16<sup>th</sup> May 2020
  11. JMC letter no. JMC/I&P/KRGN/2020-21/2862 dated 27<sup>th</sup> May 2020
  12. JMC letter no. JMC/I&P/KRGN/2020-21/2873 dated 05<sup>th</sup> June 2020
  13. JMC letter no. JMC/I&P/KRGN/2020-21/2877 dated 17<sup>th</sup> June 2020
  14. JMC letter no. JMC/I&P/KRGN/2020-21/2884 dated 02<sup>nd</sup> July 2020
  15. JMC letter no. JMC/I&P/KRGN/2020-21/2885 dated 02<sup>nd</sup> July 2020
  16. JMC letter no. JMC/I&P/KRGN/2020-21/2910 dated 28<sup>th</sup> July 2020
  17. JMC letter no. JMC/I&P/KRGN/2020-21/2916 dated 05<sup>th</sup> August 2020
  18. JMC letter no. JMC/I&P/KRGN/2020-21/2929 dated 25<sup>th</sup> August 2020
  19. JMC letter no. JMC/I&P/KRGN/2020-21/2989 dated 19<sup>th</sup> November 2020
  20. JMC letter no. JMC/I&P/KRGN/2020-21/2975 dated 22<sup>nd</sup> December 2020
  21. JMC letter no. JMC/I&P/KRGN/2020-21/3008 dated 29<sup>th</sup> December 2020
  22. JMC letter no. JMC/I&P/KRGN/2020-21/2974 dated 29<sup>th</sup> December 2020
  23. JMC letter no. JMC/I&P/KRGN/2020-21/3017 dated 15<sup>th</sup> January 2021
  24. JMC letter no. JMC/I&P/KRGN/2020-21/2023 dated 21<sup>st</sup> January 2021
  25. JMC letter no. JMC/I&P/KRGN/2021-22/3058 dated 12<sup>th</sup> April 2021
  26. JMC letter no. JMC/I&P/KRGN/2021-22/3062 dated 26<sup>th</sup> April 2021
  27. JMC letter no. JMC/I&P/KRGN/2021-22/3067 dated 29<sup>th</sup> April 2021

Dear Sir,

This is in continuation to our correspondences on the subject through which we have informed you about the impediments faced by us due to imposition of various restrictions by the Central & State Governments since March 2020, in order to curtail the spread of Corona Virus.

Page 1 of 3



Ever since the pandemic began, the execution of work has been hampered due to many reasons – direct & indirect. The Government of India, on 24<sup>th</sup> Mar'20, exercising the powers conferred to it under the **Disaster Management Act, 2005** issued guidelines on measures to be taken for containment of COVID-19. Further, the State Government exercising the powers conferred to it under the **Epidemic Disease Act, 1897** formulated "**The Madhya Pradesh Epidemic Diseases, COVID-19 Regulations, 2020**" and empowered concerned local authorities to implement containment/isolation measures, etc. The local government officials, empowered by the new regulations, imposed containment measures, curfew, etc. and as a result of the above, the work could not be executed as planned. Such Orders and Guidelines issued by the Government Instrumentalities have the force of law. On a conjoint reading of Changes in Legislation read with Clause 10.4.3 of the Contract Agreement, it is evident that Change in Law would mean change in all national (or state) legislation, statutes, ordinances and other laws, and regulations and by-laws of any legally constituted public authority. As per the principle of "ejusdem generis" an order or guideline issued under a statute and having the force of law can also be read as a change of law. Therefore, the lockdown measures taken by the Government by invoking the provisions of the Disaster Management Act, 2005, etc. is a Change in Law event.

During the nationwide lockdown, construction activities had to be completely stopped, movement of persons & vehicles were prohibited and supply chain for materials was disrupted. It triggered a mass exodus of migrant workers from site to their hometowns after the Central & State Governments facilitated their journey by running "*Sramik Special*" trains, busses, etc. In spite of this, migrant workers faced tremendous hardships during this period. Ever since, there has been an unwillingness among workers to migrate to other states / locations for work and this situation exists even today. Mobilisation of migrant workers and retaining them at project sites for long has become an arduous task, unforeseeable. Moreover, most of our vendors / suppliers of various Civil and MEP items were affected due to restrictions and unavailability of workers and this is continuing to have a cascading adverse impact on our works till date.

Although the restrictions were lifted / eased by the Governments in stages, the effects of the above changes continue to impact the execution of work even till date. Work has to be carried out as per stipulations in the MHA guidelines, maintaining social distancing, maintaining hygiene & cleanliness, sanitisation of work place, wearing appropriate PPEs and other COVID appropriate behaviour & precautions. The new normal is very much adverse compared to the circumstances existing before Mar'20 as far as execution of work is concerned and it is likely to remain so for quite some time to come. Thus, the tender stage considerations for performance of our contractual obligations are no longer valid / workable in the current scenario.

Recently, in Apr-May'21, the Governments again imposed fresh restrictions, localized lockdowns, curfew, etc. by exercising its powers under the Disaster Management Act 2005.

Although neither construction works nor movement of goods vehicles were prohibited, still it had an adverse impact as migrant workers, fearing another nationwide lockdown, began leaving for their hometowns. The situation was similar with most of our vendors / suppliers and the impact on their manufacturing units in turn affected our progress of work. Moreover, the Government of India, considering the rising demand for medical oxygen decided to prohibit supply of oxygen for industrial purposes on 18<sup>th</sup> Apr'21. This action caused further impediments to the execution of some specific activities related to cutting / fabrication / installation work with structural steel.

As informed to you earlier, we have incurred substantial costs on account of the above-mentioned changes in law, such as unrecovered site overheads & rental charges, unrecovered head office & regional office overheads, wages paid to workmen during lockdown and associated statutory compliances, rental charges of hired equipment, interest of material inventory, etc. during the entire period. Accordingly, vide our letter JMC/2862 dated 27<sup>th</sup> May'20 we have given notice under Cl. 10.4.3 of General Conditions of Contract.


As mentioned earlier, the situation is still evolving. It is not possible to predict whether the restrictions presently in force will be revoked / eased or new restrictions will be imposed in future. However, it is certain that, it will continue to have a perpetual impact on the project. We are in the process of computing the effects and shall send the final details at the appropriate time, after the Change in Legislation event is over.

This letter is without prejudice to any of our other rights and remedies available under the contract agreement.

Thanking you and assuring our best services at all time,

Yours Faithfully,

**For M/s JMC PROJECTS (INDIA) LTD.**

  
**Anas Farooq**  
**Authorized Signatory**



## GE T&D India Limited

(formerly ALSTOM T&D India Limited)  
L31102DL1957PLC193993.

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**OUR OFFER REF: NTPC /OP21041292742**

**DATE: 20-09-2022**

To,  
Manager  
Electrical (O&M)  
NTPC

**Sub:** Upgradation of existing SAS and Cybersecurity impemetation at various sites of NTPC.

Dear Sir,

Regarding subject requirement, we hereby confirm our final and No regret Total package price of Rs 81,885,000/- (Ex-works Chennai) for upgradation of SAS along with Cyber security implementation at various NTPC sites. The detailed price break-up along with revised GTP is attached with this letter.

We could arrive to above special price after having multiple discussions with top management related to massive scope of work, risk, manpower and timelines involved in this project.

As a special case, we have not considered the price of loading multiple software in existing PC's available in SIPAT site, but we have added the cost of DS Agile software in detailed break for this site as we need to upgrade the existing DS agile software to make it compatible with cyber security features.

Since above package price has been approved by top deciding authorities so we would request you to please release the LOA of total package in Sept'22 as there is high volatility in electronic market and we have limited price validity back-up from our vendors.

### **Commercial Terms & Conditions**

<b>Prices</b>	:	Firm
<b>Freight &amp; Insurance</b>	:	2% extra on Ex-works Supply price.
<b>GST</b>	:	18% shall be charged Extra as applicable at the time of actual execution.
<b>Delivery</b>	:	Within 24 weeks from the date of receipt of technically and commercially clear Purchase order.
<b>Validity</b>	:	30 days from the date of offer.
<b>Warranty</b>	:	18 months from the date of invoice or 12 months from the date of commissioning whichever is earlier.
<b>Other T&amp;C</b>	:	As per NTPC GCC and SCC.



Thanking you,  
Deepak Suri

GE T&D India Limited

Manager - Automation Sales | GA

Mobile: +91 8130750123

BIKRAM

MANDAL

Digitally signed

by BIKRAM

MANDAL

Date: 2022.09.28

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# Windows 7

Windows 7 follows the [Fixed](#) Lifecycle Policy.

This applies to the following editions: Enterprise, Enterprise N, Home Basic, Home Premium, Home Premium N, Professional, Professional for Embedded Systems, Professional N, Starter, Starter N, Ultimate, Ultimate for Embedded Systems, Ultimate N

## Important

Support for this product has ended. See migration guidance below.

Support dates are shown in the Pacific Time Zone (PT) - Redmond, WA, USA.

## Support Dates

 Expand table

Listing	Start Date	Mainstream End Date	Extended End Date
Windows 7	Oct 22, 2009	Jan 13, 2015	Jan 14, 2020

## Releases

 Expand table

Version	Start Date	End Date
Extended Security Update Year 3*	Jan 12, 2022	Jan 10, 2023
Extended Security Update Year 2*	Jan 13, 2021	Jan 11, 2022
Extended Security Update Year 1*	Jan 15, 2020	Jan 12, 2021

Version	Start Date	End Date
Service Pack 1	Feb 22, 2011	Jan 14, 2020
Original Release	Oct 22, 2009	Apr 9, 2013

#### Tip

- Extended Security Updates (ESU) are available through specific volume licensing programs for Windows 7 Professional, Enterprise, and Professional for Embedded Systems editions of this product, for up to an additional three years past the end of support. Contact your Microsoft partner or account team to learn more.

## Links

- [Migration guidance](#)
- [Upgrading from Windows 7 to Windows 10](#)
- [Extended Security Update Program \(ESU\)](#)
- [Service pack policy](#)

#### Note

Microsoft Edge version 109, releasing the week of January 12, will be the last browser version to support Windows 7 and Windows 8.1. Version 109 will be supported until version 110 is released in February 2023, at which time Windows 10 or later will be required to continue using a supported version of Microsoft Edge. Please go [here](#) to learn more.

## Editions

- Enterprise
- Enterprise N
- Home Basic
- Home Premium
- Home Premium N
- Professional

- Professional for Embedded Systems
- Professional N
- Starter
- Starter N
- Ultimate
- Ultimate for Embedded Systems
- Ultimate N

**No. 20(3)/2022-CERT-In**  
**Government of India**  
**Ministry of Electronics and Information Technology (MeitY)**  
**Indian Computer Emergency Response Team (CERT-In)**

Electronics Niketan,  
6 CGO Complex,  
New Delhi-110003

Dated: 28 April, 2022

**Subject: Directions under sub-section (6) of section 70B of the Information Technology Act, 2000 relating to information security practices, procedure, prevention, response and reporting of cyber incidents for Safe & Trusted Internet.**

**Whereas**, the Central Government in terms of the provisions of sub-section (1) of section 70B of Information Technology (IT) Act, 2000 (IT Act, 2000) has appointed "Indian Computer Emergency Response Team (CERT-In)" vide notification dated 27<sup>th</sup> October 2009 published in the official Gazette and as per provisions of sub-section (4) of section 70B of IT Act, 2000 The Indian Computer Emergency Response Team shall serve as the national agency for performing the following functions in the area of cyber security:-

- a) collection, analysis and dissemination of information on cyber incidents;
- b) forecast and alerts of cyber security incidents;
- c) emergency measures for handling cyber security incidents;
- d) coordination of cyber incidents response activities;
- e) issue guidelines, advisories, vulnerability notes and whitepapers relating to information security practices, procedures, prevention, response and reporting of cyber incidents;
- f) such other functions relating to cyber security as may be prescribed.

**And whereas**, "The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013" were notified and published vide notification dated 16.01.2014 by the Central Government in exercise of the powers conferred by clause (zf) of sub-section (2) of section 87 read with sub-section (5) of section 70B of the IT Act, 2000.

**And whereas,** as per provisions of sub-section (6) of section 70B of the IT Act, 2000, CERT-In is empowered and competent to call for information and give directions to the service providers, intermediaries, data centres, body corporate and any other person for carrying out the activities enshrined in sub-section (4) of section 70B of the IT Act, 2000.

**And whereas,** various instances of cyber incidents and cyber security incidents have been and continue to be reported from time to time and in order to coordinate response activities as well as emergency measures with respect to cyber security incidents, the requisite information is either sometime not found available or readily not available with service providers/data centres/body corporate and the said primary information is essential to carry out the analysis, investigation and coordination as per the process of law.

**And whereas,** it is considered expedient in the interest of the sovereignty or integrity of India, defence of India, security of the state, friendly relations with foreign states or public order or for preventing incitement to the commission of any cognizable offence using computer resource or for handling of any cyber incident, that following directions are issued to augment and strengthen the cyber security in the country:

- (i) All service providers, intermediaries, data centres, body corporate and Government organisations shall connect to the Network Time Protocol (NTP) Server of National Informatics Centre (NIC) or National Physical Laboratory (NPL) or with NTP servers traceable to these NTP servers, for synchronisation of all their ICT systems clocks. Entities having ICT infrastructure spanning multiple geographies may also use accurate and standard time source other than NPL and NIC, however it is to be ensured that their time source shall not deviate from NPL and NIC.
- (ii) Any service provider, intermediary, data centre, body corporate and Government organisation shall mandatorily report cyber incidents as mentioned in Annexure I to CERT-In within 6 hours of noticing such incidents or being brought to notice about such incidents. The incidents can be reported to CERT-In via email ([incident@cert-in.org.in](mailto:incident@cert-in.org.in)), Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and formats of reporting cyber security incidents is also published on the website of CERT-In [www.cert-in.org.in](http://www.cert-in.org.in) and will be updated from time to time.

- (iii) When required by order/direction of CERT-In, for the purposes of cyber incident response, protective and preventive actions related to cyber incidents, the service provider/intermediary/data centre/body corporate is mandated to take action or provide information or any such assistance to CERT-In, which may contribute towards cyber security mitigation actions and enhanced cyber security situational awareness. The order / direction may include the format of the information that is required (up to and including near real-time), and a specified timeframe in which it is required, which should be adhered to and compliance provided to CERT-In, else it would be treated as non-compliance of this direction. The service providers, intermediaries, data centres, body corporate and Government organisations shall designate a Point of Contact to interface with CERT-In. The Information relating to a Point of Contact shall be sent to CERT-In in the format specified at Annexure II and shall be updated from time to time. All communications from CERT-In seeking information and providing directions for compliance shall be sent to the said Point of Contact.
- (iv) All service providers, intermediaries, data centres, body corporate and Government organisations shall mandatorily enable logs of all their ICT systems and maintain them securely for a rolling period of 180 days and the same shall be maintained within the Indian jurisdiction. These should be provided to CERT-In along with reporting of any incident or when ordered / directed by CERT-In.
- (v) Data Centres, Virtual Private Server (VPS) providers, Cloud Service providers and Virtual Private Network Service (VPN Service) providers, shall be required to register the following accurate information which must be maintained by them for a period of 5 years or longer duration as mandated by the law after any cancellation or withdrawal of the registration as the case may be:
- a. Validated names of subscribers/customers hiring the services
  - b. Period of hire including dates
  - c. IPs allotted to / being used by the members
  - d. Email address and IP address and time stamp used at the time of registration / on-boarding
  - e. Purpose for hiring services
  - f. Validated address and contact numbers
  - g. Ownership pattern of the subscribers / customers hiring services

- (vi) The virtual asset service providers, virtual asset exchange providers and custodian wallet providers (as defined by Ministry of Finance from time to time) shall mandatorily maintain all information obtained as part of Know Your Customer (KYC) and records of financial transactions for a period of five years so as to ensure cyber security in the area of payments and financial markets for citizens while protecting their data, fundamental rights and economic freedom in view of the growth of virtual assets.

For the purpose of KYC, the Reserve Bank of India (RBI) Directions 2016 / Securities and Exchange Board of India (SEBI) circular dated April 24, 2020 / Department of Telecom (DoT) notice September 21, 2021 mandated procedures as amended from time to time may be referred to as per Annexure III.

With respect to transaction records, accurate information shall be maintained in such a way that individual transaction can be reconstructed along with the relevant elements comprising of, but not limited to, information relating to the identification of the relevant parties including IP addresses along with timestamps and time zones, transaction ID, the public keys (or equivalent identifiers), addresses or accounts involved (or equivalent identifiers), the nature and date of the transaction, and the amount transferred.

**And whereas,** the meaning to the terms ‘cyber incident’ or ‘cyber security incident’ or ‘computer resource’ or other terms may be ascribed as defined in the IT Act, 2000 or “The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013” as the case may be.

**And whereas,** in case of any incident, the above-referred entities must furnish the details as called for by CERT-In. The failure to furnish the information or non-compliance with the *ibid.* directions, may invite punitive action under sub-section (7) of the section 70B of the IT Act, 2000 and other laws as applicable.

This direction will become effective after 60 days from the date on which it is issued.

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**Types of cyber security incidents mandatorily to be reported by service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In:**

[Refer Rule 12(1)(a) of The Information Technology (The Indian Computer Emergency Response Team and Manner of Performing Functions and Duties) Rules, 2013]

- i. Targeted scanning/probing of critical networks/systems
- ii. Compromise of critical systems/information
- iii. Unauthorised access of IT systems/data
- iv. Defacement of website or intrusion into a website and unauthorised changes such as inserting malicious code, links to external websites etc.
- v. Malicious code attacks such as spreading of virus/worm/Trojan/Bots/Spyware/Ransomware/Cryptominers
- vi. Attack on servers such as Database, Mail and DNS and network devices such as Routers
- vii. Identity Theft, spoofing and phishing attacks
- viii. Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks
- ix. Attacks on Critical infrastructure, SCADA and operational technology systems and Wireless networks
- x. Attacks on Application such as E-Governance, E-Commerce etc.
- xi. Data Breach
- xii. Data Leak
- xiii. Attacks on Internet of Things (IoT) devices and associated systems, networks, software, servers
- xiv. Attacks or incident affecting Digital Payment systems
- xv. Attacks through Malicious mobile Apps
- xvi. Fake mobile Apps
- xvii. Unauthorised access to social media accounts
- xviii. Attacks or malicious/ suspicious activities affecting Cloud computing systems/servers/software/applications
- xix. Attacks or malicious/suspicious activities affecting systems/ servers/ networks/ software/ applications related to Big Data, Block chain, virtual assets, virtual asset exchanges, custodian wallets, Robotics, 3D and 4D Printing, additive manufacturing, Drones

xx. Attacks or malicious/ suspicious activities affecting systems/  
servers/software/ applications related to Artificial Intelligence and Machine  
Learning

The incidents can be reported to CERT-In via email ([incident@cert-in.org.in](mailto:incident@cert-in.org.in)),  
Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and  
formats of reporting cyber security incidents is also published on the website of  
CERT-In [www.cert-in.org.in](http://www.cert-in.org.in) and will be updated from time to time.

\*\*\*\*\*

## Annexure II

### **Format for providing Point of Contact (PoC) information by Service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In**

The Information relating to the Point of Contact shall be sent to CERT-In via email ([info@cert-in.org.in](mailto:info@cert-in.org.in)) in the format specified below and shall be updated from time to time:

Name	
Designation	
Organisation Name	
Office Address	
Email ID	
Mobile No.	
Office Phone	
Office Fax	

\*\*\*\*\*

**KYC Requirements**

For the purpose of KYC, any of following Officially Valid Document (OVD) as a measure of identification procedure prescribed by the Reserve Bank of India (Know Your Customer (KYC)) Directions, 2016 / Securities and Exchange Board of India Clarification on Know Your Client (KYC) Process and Use of Technology for KYC vide Circular SEBI/HO/MIRSD/DOP/CIR/P/2020/73 dated April 24, 2020 / The Department of Telecom File No: 800-12/2021- AS.II dated September 21, 2021 on Self-KYC (S-KYC) as an alternate process for issuing of new mobile connections to Local and Outstation category customers, shall be used and maintained:

- a. The passport,
- b. The driving license,
- c. Proof of possession of Aadhaar number,
- d. The Voter's Identity Card issued by the Election Commission of India,
- e. Job card issued by NREGA duly signed by an officer of the State Government and
- f. Letter issued by the National Population Register containing details of name and address.
- g. Validated phone number
- h. Trading account number and details, Bank account number and bank details

For the purpose of KYC for business entities (B2B), documents mentioned in the Customer Due Diligence (CDD) process prescribed in Reserve Bank of India Master Direction - Know Your Customer (KYC) Direction, 2016 as updated from time to time shall be used and maintained.

\*\*\*\*\*



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

  
07/10/21  
(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.

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.

### 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.

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

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

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 Swachhta 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.

- 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).

- 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.

- 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 actionability 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.

## **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.

- 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

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.

- 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**

- 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

**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 – 1)**

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 – 1)**

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.



No. 11/86/2017-Th.II  
Government of India  
Ministry of Power

.....

Shram Shakti Bhawan, Rafi Marg,  
New Delhi, dated the 8<sup>th</sup> October, 2021

To,

1. Principal Secretary/Secretary in charge of Energy/Power  
Departments, All States/UTs
2. Chairman, CEA
3. CMDs of all CGSs

**Subject: Revised Policy for Biomass Utilisation for Power Generation through Co-firing in Coal based Power Plants**

Sir/Madam,

The undersigned is directed to refer to this Ministry's "Policy for Biomass Utilisation for Power Generation through Co-firing in Pulverised Coal Fired Boilers" issued in November, 2017

2. In order to further promote use of biomass pellets in coal based thermal power plants, the above Policy is further modified. A copy of "Revised Policy for Biomass Utilisation for Power Generation through Co-firing in Coal based Power Plants" is enclosed for information and necessary action please.

Yours faithfully

Ends: As Above

Kumar Saurabh  
Deputy Director(Thermal)  
Ministry of Power

Copy to:

- (i) PS to Hon'ble Minister,
- (ii) PS to Hon'ble MoS for Power,
- (iii) Sr. PPS to Secretary(Power),
- (iv) PPS to AS(SKGR), PPS to AS&FA, PPS to AS(VKD)
- (v) All Joint Secretaries/EA/Chief Engineer, Ministry of Power
- (vi) Incharge, NIC, Ministry of Power - with a request to upload this document on the website of MoP.

**REVISED POLICY OF MINISTRY OF POWER FOR BIOMASS UTILIZATION FOR POWER GENERATION THROUGH CO-FIRING IN COAL BASED POWER PLANTS**

1. The current availability of biomass in India is estimated at about 750 million metric tonnes per year. The estimated surplus biomass availability is at about 230 million metric tonnes per annum covering agricultural residues.

2. Ministry of Power (MoP) vide its policy dated 17-11-2017 on biomass utilization for power generation had advised that all fluidized bed and pulverized coal units (coal based thermal power plants) except those having ball and tube mill, of power generation utilities, public or private, located in India, to use 5-10% blend of biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspect etc.

3. In order to further promote use of biomass pellets in coal based thermal power plants, the above Policy is further modified. The modifications in the above Policy are as under:

(i). All coal based thermal power plants of power generation utilities with **bowl mill**, shall on annual basis mandatorily use 5 percent blend of biomass pellets made, primarily, of agro residue along with coal with effect from one year of the date of issue of this guideline. The obligation shall increase to 7 percent with effect from two years after the date of issue of this order and thereafter.

(ii). All coal based thermal power plants of power generation utilities with **ball & race mill**, shall on annual basis mandatorily use 5 % blend of biomass pellets (torrefied only) made, primarily, of agro residue along with coal. This is to be complied within one year starting from this order. Two years from the date of issue of this order and thereafter the obligation will increase to 7 percent.

(iii). All coal based thermal power plants of power generation utilities with **ball & tube mills**, shall on annual basis mandatorily use 5 % blend of torrefied biomass pellets with volatile content below 22%, primarily made of agro residue along with coal. This is to be complied within one year.

(iv). Generating Utilities having certain units under Reserve Shutdown or not being despatched due to MOD (Merit Order Despatch) consideration would ensure to increase the percentage of co-firing up to 10 % in their other operating units/ plants (5 % in plants having ball and tube mills).

(v). Any power plants seeking exemptions / relaxation from co-firing may be considered on case to case basis, based on recommendations of CEA. A Committee headed by Chief Engineer (TE&TD), CEA, including representatives from NTPC, BHEL, CPRI, Ministry of Agriculture and Mission

*HS*

Directorate shall examine the request of power plants for their exemption/relaxation from mandatory co-firing of biomass, as mentioned at para (i) to (iv) above.

(vi). The policy for co-firing of biomass would be in force for 25 years or till the useful life of the thermal power plant whichever is earlier. The minimum percentage of biomass for co-firing will be reviewed from time to time.

(vii) The minimum contract period for procurement of biomass pellets by generating utilities shall be for 7 years so as to avoid delay in awarding contracts by generating companies every year and also to build up long term supply chain. There may be provision of firm price of biomass pellets for the first year of the contract and yearly rate variation from second year onwards where rates can vary as per terms and conditions of the contract. In order to enable its implementation, a model RfP and contract shall be issued by MOP by 15.11.2021 for adhering to by all generating utilities. However, the ongoing process of contracting for biomass co-firing by generating utilities shall not be affected till issue of Model Contract.

(viii). Provisions related to tariff determination and scheduling shall be as given below:

- a. For projects set up under Section 62 of the Electricity Act 2003, the increase in cost due to co-firing of biomass pellets shall be pass through in Energy Charge Rate (ECR).
- b. For projects set up under Section 63 of the Electricity Act 2003, the increase in ECR due to biomass co-firing can be claimed under Change in Law provisions.
- c. Such additional impact on ECR shall not be considered in deciding Merit Order Despatch (MOD) of the power plant.
- d. Obligated Entities such as Discoms can meet their Renewable Purchase Obligations (RPO) by buying such generation of co-firing.



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# भारत का राजपत्र The Gazette of India

सी.जी.-डी.एल.-अ.-01012022-232336  
CG-DL-E-01012022-232336

असाधारण  
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 5075]  
No. 5075]

नई दिल्ली, शुक्रवार, दिसम्बर 31, 2021/पौष 10, 1943  
NEW DELHI, FRIDAY, DECEMBER 31, 2021/PAUSHA 10, 1943

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 31 दिसम्बर, 2021

का.आ. 5481(अ).—केन्द्रीय सरकार ने भारत सरकार के तत्कालीन पर्यावरण और वन मंत्रालय की अधिसूचना सं. का.आ. 763 (अ) तारीख 14 सितम्बर, 1999 द्वारा कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों से तीन सौ किलोमीटर के विनिर्दिष्ट व्यास के भीतर ईंटों के विनिर्माण के लिए उपजाऊ मिट्टी के उत्खनन को प्रतिबंधित करने के लिए और भवन निर्माण सामग्री के विनिर्माण में और संनिर्माण क्रियाकलाप में फ्लाई-राख के उपयोग को बढ़ावा देने के लिए निदेश जारी किए हैं;

और, प्रदूषणकर्ता भुगतान सिद्धांत (पीपीपी) के आधार पर, ऐसा करके कोयला या लिग्नाइट आधारित ताप विद्युत संयंत्रों द्वारा फ्लाई-राख का 100 प्रतिशत उपयोग सुनिश्चित करते हुए और फ्लाई-राख प्रबंधन प्रणाली की संधारणीयता के लिए पूर्वोक्त अधिसूचना को और अधिक प्रभावकारी ढंग से कार्यान्वित करने हेतु, केन्द्रीय सरकार ने मौजूदा अधिसूचना की समीक्षा की;

और प्रदूषणकर्ता भुगतान सिद्धांत के आधार पर पर्यावरणीय प्रतिकर निर्धारित किए जाने की आवश्यकता है;

और, विनिर्माण को बढ़ावा देकर तथा निर्माण कार्य के क्षेत्र में राख आधारित उत्पादों तथा भवन निर्माण सामग्रियों के प्रयोग को अनिवार्य करके उपजाऊ मिट्टी को संरक्षित करने की आवश्यकता है;

	सीमेंट शीट या पाइप या बोर्ड या पैनल): ii. सीमेंट विनिर्माण: iii. रेडी मिक्स कंक्रीट: iv. राख और जीओ-पॉलिमर आधारित निर्माण सामग्री: v. सिंटर्ड या कोल्ड बॉन्डेड राख एग्रीगेट का निर्माण: vi. सड़कों, सड़क और फ्लाई ओवर के पुश्तों का निर्माण: vii. बांधों का निर्माण: viii. निम्न भू-क्षेत्र का भराव: ix. खनिज क्षेत्रों का भराव: x. अधिभार वाले डम्पों में उपयोग: xi. कृषि: xii. तटीय जिलों में तटरेखा सुरक्षा संरचनाओं का निर्माण: xiii. अन्य देशों को राख का निर्यात xiv. अन्य (कृपया विनिर्दिष्ट करें):			
20.	सार :			
	व्यौरा	सृजित मात्रा (एमटीपी)	उपयोग की गई मात्रा (एमटीपी) और (%)	शेष मात्रा (एमटीपी)
	रिपोर्टिंग की अवधि के दौरान राख			
	पुरानी राख			
	कुल			
21.	कोई अन्य सूचना : वार्षिक अनुपालन रिपोर्ट, और विद्युत संयंत्रों और राख कुण्डों की शेष फाइलों की सॉफ्ट कॉपी ई-मेल:- <a href="mailto:moefcc-coalash@gov.in">moefcc-coalash@gov.in</a> पर भेजी जाए।			
22.	प्राधिकृत हस्ताक्षरकर्ता के हस्ताक्षर			

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 31st December, 2021

**S.O. 5481(E).**—Whereas by notification of the Government of India in the erstwhile Ministry of Environment and Forests *vide* S.O.763 (E), dated the 14<sup>th</sup> September, 1999, as amended from time to time, the Central Government, issued directions for restricting the excavation of top soil for manufacturing of bricks and promoting the utilisation of fly ash in the manufacturing of building materials and in construction activity within a specified radius of three hundred kilometres from the coal or lignite based thermal power plants;

And whereas, to implement the aforesaid notification more effectively based on the polluter pays principle (PPP) thereby ensuring 100 per cent utilisation of fly ash by the coal or lignite based thermal power plants and for the sustainability of the fly ash management system, the Central Government reviewed the existing notification; and whereas environmental compensation needs to be introduced based on the polluter pays principle;

And whereas, there is a need to conserve top soil by promoting manufacture and mandating use of ash based products and building materials in the construction sector;

And whereas, there is a need to conserve top soil and natural resources by promoting utilisation of ash in road laying, road and flyover embankments, shoreline protection measures, low lying areas of approved projects, backfilling of mines, as an alternative for filling of earthen materials;

And whereas, it is necessary to protect the environment and prevent the dumping and disposal of fly ash discharged from coal or lignite based thermal power plants on land;

And whereas, in the said notification the phrase 'ash', has been used which includes both fly ash as well as bottom ash generated from the Coal or Lignite based thermal power plants;

And whereas, the Central Government intends to bring out a comprehensive framework for ash utilisation including system of environmental compensation based on polluter pays principle;

And whereas, a draft notification on ash utilisation by coal or lignite thermal power plants in supersession of the notification of the Government of India, Ministry of Environment and Forests published in the Gazette of India, Extra Ordinary part II, section 3, sub-section (i) *vide* S.O.763 (E), dated the 14<sup>th</sup> September, 1999, by notification in exercise of the powers conferred under sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule (5) of the Environment (Protection) Rules, 1986, was published in the Gazette of India, Extraordinary, Part II, section 3, sub-section (i), *vide* G.S.R. 285(E), dated the 22nd April, 2021 inviting objections and suggestions from all persons likely to be affected thereby before the expiry of sixty days from the date on which copies of the Gazette containing the said draft provisions were made available to the public;

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

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with clause (d) of sub-rule (3) of rule (5) of the Environment (Protection) Rules, 1986, and in supersession of the Notification S.O.763 (E), dated the 14<sup>th</sup> September, 1999 except as respect things done or omitted to be done before such supersession, the Central Government hereby issues the following notification on ash utilisation from coal or lignite thermal power plants which shall come into force on the date of the publication of this notification, namely:-

#### **A. Responsibilities of thermal power plants to dispose fly ash and bottom ash.—**

- (1) Every coal or lignite based thermal power plant (including captive or co-generating stations or both) shall be primarily responsible to ensure 100 per cent utilisation of ash (fly ash, and bottom ash) generated by it in an eco-friendly manner as given in sub-paragraph (2);
- (2) The ash generated from coal or lignite based thermal power plants shall be utilised only for the following eco-friendly purposes, namely:-
  - (i) Fly ash based products viz. bricks, blocks, tiles, fibre cement sheets, pipes, boards, panels;
  - (ii) Cement manufacturing, ready mix concrete;
  - (iii) Construction of road and fly over embankment, Ash and Geo-polymer based construction material;
  - (iv) Construction of dam;
  - (v) Filling up of low lying area;
  - (vi) Filling of mine voids;
  - (vii) Manufacturing of sintered or cold bonded ash aggregate;
  - (viii) Agriculture in a controlled manner based on soil testing;
  - (ix) Construction of shoreline protection structures in coastal districts;

- (x) Export of ash to other countries;
  - (xi) Any other eco-friendly purpose as notified from time to time.
- (3) A committee shall be constituted under the chairmanship of Chairman, Central Pollution Control Board (CPCB) and having representatives from Ministry of Environment, Forest and Climate Change (MoEFCC), Ministry of Power, Ministry of Mines, Ministry of Coal, Ministry of Road Transport and Highways, Department of Agricultural Research and Education, Institute of Road Congress, National Council for Cement and Building Materials, to examine and review and recommend the eco-friendly ways of utilisation of ash and make inclusion or exclusion or modification in the list of such ways as mentioned in Sub-paragraph (2) based on technological developments and requests received from stakeholders. The committee may invite State Pollution Control Board or Pollution Control Committee, operators of thermal power plants and mines, cement plants and other stakeholders as and when required for this purpose. Based on the recommendations of the Committee, Ministry of Environment, Forest and Climate Change (MoEFCC) may publish such eco-friendly purpose.
- (4) Every coal or lignite based thermal power plant shall be responsible to utilise 100 per cent ash (fly ash and bottom ash) generated during that year, however, in no case shall utilisation fall below 80 per cent in any year, and the thermal power plant shall achieve average ash utilisation of 100 per cent in a three years cycle:

Provided that the three years cycle applicable for the first time is extendable by one year for the thermal power plants where ash utilisation is in the range of 60-80 per cent, and two years where ash utilisation is below 60 per cent and for the purpose of calculation of percentage of ash utilisation, the percentage quantity of utilisation in the year 2021- 2022 shall be taken into account as per the table below:

Utilisation percentages of thermal power plants	First compliance Cycle to meet 100 per cent utilisation	Second compliance cycle onwards, to meet 100 per cent utilisation
>80 per cent	3 years	3 years
60-80 per cent	4 years	3 years
<60 per cent	5 years	3 years

Provided further that the minimum utilisation percentage of 80 per cent shall not be applicable to the first year and first two years of the first compliance cycle for the thermal power plants under the utilisation category of 60-80 per cent and <60 per cent, respectively.

Provided also that 20per cent of ash generated in the final year of compliance cycle may be carried forward to the next cycle which shall be utilised in the next three years cycle along with the ash generated during that cycle.

- (5) The unutilised accumulated ash i.e. legacy ash, which is stored before the publication of this notification, shall be utilised progressively by the thermal power plants in such a manner that the utilization of legacy ash shall be completed fully within ten years from the date of publication of this notification and this will be over and above the utilisation targets prescribed for ash generation through current operations of that particular year:

Provided that the minimum quantity of legacy ash in percentages as mentioned below shall be utilised during the corresponding year and the minimum quantity of legacy ash is to be calculated based on the annual ash generation as per installed capacity of thermal power plant.

Year from date of publication	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup> -10 <sup>th</sup>
Utilisation of legacy ash (in percentage of Annual ash)	At least 20 per cent	At least 35 per cent	At least 50 per cent

Provided further that the legacy ash utilisation shall not be required where ash pond or dyke has stabilised and the reclamation has taken place with greenbelt or plantation and the concerned State Pollution Control Board shall certify in this regard. Stabilisation and reclamation of an ash pond or dyke including certification by the Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall be carried out within a year from the date of publication of this notification. The ash remaining in all other ash ponds or dykes shall be utilised in progressive manner as per the above mentioned timelines.

**Note:** The obligations under sub-paragraph (4) and (5) above for achieving the ash utilisation targets shall be applicable from 1<sup>st</sup> April, 2022.

- (6) Any new as well as operational thermal power plant may be permitted an emergency or temporary ash pond with an area of 0.1 hectare per Mega Watt (MW). Technical specifications of ash ponds or dykes shall be as per the guidelines of Central Pollution Control Board (CPCB) made in consultation with Central Electricity Authority (CEA) and these guidelines shall also lay down a procedure for annual certification of the ash pond or dyke on its safety, environmental pollution, available volume, mode of disposal, water consumption or conservation in disposal, ash water recycling and greenbelt, etc., and shall be put in place within three months from the date of publication of this notification.
- (7) Every coal or lignite based thermal power plant shall ensure that loading, unloading, transport, storage and disposal of ash is done in an environmentally sound manner and that all precautions to prevent air and water pollution are taken and status in this regard shall be reported to the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) in Annexure attached to this notification.
- (8) Every coal or lignite based thermal power plant shall install dedicated silos for storage of dry fly ash silos for at least sixteen hours of ash based on installed capacity and it shall be reported upon to the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) in the Annexure and shall be inspected by Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) from time to time.
- (9) Every coal or lignite based thermal power plant (including captive or co-generating stations or both) shall provide real time data on daily basis of availability of ash with Thermal Power Plant (TPP), by providing link to Central Pollution Control Board's web portal or mobile phone App for the benefit of actual user(s).
- (10) Statutory obligation of 100 per cent utilisation of ash shall be treated as a change in law, wherever applicable.

**B. For the purpose of utilisation of ash, the subsequent sub-paras shall apply.—**

- (1) All agencies (Government, Semi-government and Private) engaged in construction activities such as road laying, road and flyover embankments, shoreline protection structures in coastal districts and dams within 300 kms from the lignite or coal based thermal power plants shall mandatorily utilise ash in these activities:

Provided that it is delivered at the project site free of cost and transportation cost is borne by such coal or lignite based thermal power plants.

Provided further that thermal power plant may charge for ash cost and transportation as per mutually agreed terms, in case thermal power plant is able to dispose the ash through other means and those agencies makes a request for it and the provisions of ash free of cost and free transportation shall be applicable, if thermal power plant serves a notice on the construction agency for the same.

- (2) The utilisation of ash in the said activities shall be carried out in accordance with specifications and guidelines laid down by the Bureau of Indian Standards, Indian Road Congress, Central Building Research Institute, Roorkee, Central Road Research Institute, Delhi, Central Public Works Department, State Public Works Departments and other Central and State Government Agencies.

- (3) It shall be obligatory on all mines located within 300 kilometres radius of thermal power plant, to undertake backfilling of ash in mine voids or mixing of ash with external Overburden dumps, under Extended Producer Responsibility (EPR). All mine owners or operators (Government, Public and Private Sector) within three hundred kilometres (by road) from coal or lignite based thermal power plants, shall undertake measures to mix at least 25 per cent of ash on weight to weight basis of the materials used for external dump of overburden, backfilling or stowing of mine (running or abandoned as the case may be) as per the guidelines of the Director General of Mines Safety (DGMS):

Provided that such thermal power stations shall facilitate the availability of required quantity of ash by delivering ash free of cost and bearing the cost of transportation or cost of transportation arrangement decided on mutually agreed terms and mixing of ash with overburden in mine voids and dumps shall be applicable for the overburden generated from the date of publication of this notification and the utilisation of ash in the said activities shall be carried out in accordance with guidelines laid down by the Central Pollution Control Board, Director General of Mines Safety and Indian Bureau of Mines.

Explanation.- For the purpose of this sub-paragraph, it is also clarified that the provisions of ash free of cost and free transportation shall be applicable, if thermal power plants serve a notice on the mine owner for the same and the mandate of using 25 per cent of ash for mixing with overburden dump and filling up of mine voids shall not be applicable unless a notice is served on the mine owner by thermal power plant.

- (4) (i) All mine owners shall get mine closure plans (progressive and final) to accommodate ash in the mine voids and the concerned authority shall approve mine plans for disposal of ash in mine voids and mixing of ash with overburden dumps. The Ministry of Environment, Forest and Climate Change (MoEFCC) has issued guidelines on 28<sup>th</sup> August, 2019 regarding exemption of requirement of Environmental Clearance of thermal power plants and coal mines along with the guidelines to be followed for such disposal.
- (ii) The Ministry in consultation with Central Pollution Control Board (CPCB), Director General of Mine Safety (DGMS) and Indian Bureau of Mines (IBM) may issue further guidelines time to time to facilitate ash disposal in mine voids and mixing with overburden dumps and it shall be the responsibility of mine owners to get the necessary amendments or modifications in the permissions issued by various regulatory authorities within one year from the date of identification of such mines.
- (5) (i) There shall be a committee headed by Chairperson, Central Pollution Control Board (CPCB) with representatives from Ministry of Environment, Forest and Climate Change, Ministry of Power, Ministry of Mines, Ministry of Coal, Director General of Mine Safety and Indian Bureau of Mines for identification of mines for backfilling of mine voids with ash or mixing of ash with overburden dump including examination of safety, feasibility (not economic feasibility) and aspects of environmental contamination and the committee shall get updated quarterly reports prepared regarding identified mines (both underground and opencast) for the stakeholder Ministries or Departments and the committee shall start identifying the suitable mines immediately after the publication of this notification.
- (ii) Thermal power plants or mines shall not wait for disposal of ash till the identification is done by the above mentioned committee, to meet the utilisation targets mandated as above.
- (6) Filling of low lying areas with ash shall be carried out with prior permission of the State Pollution Control Board or Pollution Control Committee for approved projects, and in accordance with guidelines laid down by Central Pollution Control Board (CPCB) and the State Pollution Control Board or Pollution Control Committee (PCC) shall publish approved sites, location, area and permitted quantity annually on its website.
- (7) Central Pollution Control Board after engaging relevant stakeholders, shall put in place the guidelines within one year for all types of activities envisaged under this notification including putting in place time bound online application process for the grant permission by State Pollution Control Boards (SPCBs) or Pollution Control Committees (PCCs).

- (8) All building construction projects (Central, State and Local authorities, Govt. undertakings, other Govt. agencies and all private agencies) located within a radius of three hundred kilometres from a coal or lignite based thermal power plant shall use ash bricks, tiles, sintered ash aggregate or other ash based products, provided these are made available at prices not higher than the price of alternative products.
- (9) Manufacturing of ash based products and use of ash in such products shall be in accordance with specifications and guidelines laid down by the Bureau of Indian Standards, Indian Road Congress, and Central Pollution Control Board.

**C. Environmental compensation for non-compliance.—**

- (1) In the first two years of a three years cycle, if the coal or lignite based thermal power plant (including captive or co-generating stations or both) has not achieved at least 80 per cent ash (fly ash and bottom ash) utilisation, then such non-compliant thermal power plants shall be imposed with an environmental compensation of Rs. 1000 per ton on unutilised ash during the end of financial year based on the annual reports submitted and if it is unable to utilise 100 per cent of ash in the third year of the three years cycle, it shall be liable to pay an environmental compensation of Rs. 1000 per ton on the unutilised quantity on which environmental compensation has not been imposed earlier:

Provided that the environmental compensation shall be estimated and imposed at the end of last year of the first compliance cycle as per the various utilisation categories as mentioned in sub-paragraph (4) of Para A.

- (2) Environmental compensation collected by the authorities shall be deposited in the designated account of Central Pollution Control Board.
- (3) In case of legacy ash, if the coal or lignite based thermal power plant (including captive or co-generating stations or both) has not achieved utilisation equivalent to at least 20 per cent (for the first year), 35 per cent (for the second year), 50 per cent (for third to tenth year) of ash generated based on installed capacity, an environmental compensation of Rs. 1000 per ton of unutilised legacy ash during that financial year shall be imposed and if the utilization of legacy ash is not completed at the end of 10 years, an environmental compensation of Rs.1000 per ton shall be imposed on the remaining unutilised quantity which has not been imposed earlier.
- (4) It shall be the responsibility of the transporters or vehicle owner to deliver ash to authorised purchaser or user agency and if it is not complied, then an environmental compensation of Rs. 1500 per ton on such quantity as mis-delivered to unauthorised users or non- delivered to authorised users will be imposed besides prosecution of such non-compliant transporters by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC).
- (5) It is the responsibility of the purchasers or user agencies to utilise ash in an eco-friendly manner as laid down at para B of this notification and if it is not complied, then an environmental compensation of Rs. 1500 or per ton shall be imposed by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC).
- (6) If the user agencies do not utilise ash to the extent obligated under para B or the extent to which they have been intimated through Notice(s) served under sub-paragraph (1) of para D, whichever is lower, they shall be liable to pay Rs. 1500 per ton of ash for the quantity they fall short off.

Provided that the environmental compensation on building constructions shall be levied at Rs.75/- per square feet of built up area of construction.

- (7) (i) The environmental compensation collected by Central Pollution Control Board from the thermal power plants and other defaulters shall be used towards the safe disposal of the unutilised ash and the fund may also be utilised for advancing research on use of ash including ash based products.

(ii) The liability of ash utilisation shall be with thermal power plants even after imposition of environmental compensation on unutilised quantities and in case thermal power plant achieves the ash utilisation of any

particular cycle after imposition of environmental compensation in subsequent cycles, the said amount shall be returned to thermal power plant after deducting 10 per cent of the environmental compensation collected on the unutilised quantity during the next cycle and deduction of 20 per cent, 30 per cent, and so on, of the environmental compensation collected is to be made in case of utilisation of ash in subsequent cycles.

**D. Procedure for supply of ash or ash based products.—**

- (1) The owner of thermal power plants or manufacturers of ash bricks or tiles or sintered ash aggregate shall serve written notice to persons or agencies who are liable to utilise ash or ash based products, offering for sale, or transport or both.
- (2) Persons or user agencies who have been served notices by owner of thermal power plants or manufacturers of ash bricks or tiles or sintered ash aggregate, if they have already tied up with other agencies for the purpose of utilisation of ash or ash products, shall inform the thermal power plant accordingly, if they cannot use any ash or ash products or use reduced quantity.

**E. Enforcement, Monitoring, Audit and Reporting.—**

- (1) The Central Pollution Control Board (CPCB) and the concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall be the enforcing and monitoring authority for ensuring compliance of the provisions and shall monitor the utilisation of ash on quarterly basis. Central Pollution Control Board shall develop a portal for the purpose within six months of date of publication of the notification. The concerned District Magistrate shall have concurrent jurisdiction for enforcement and monitoring of the provisions of this notification.
- (2) (i) Thermal power plants shall upload monthly information regarding ash generation and utilisation by 5th of the next month on the web portal. Annual implementation report (for the period 1<sup>st</sup> April to 31<sup>st</sup> March) providing information about the compliance of provisions in this notification shall be submitted by the 30<sup>th</sup> day of April, every year to the Central Pollution Control Board, concerned State Pollution Control Board or Pollution Control Committee (PCC), Central Electricity Authority (CEA), and concerned Integrated Regional Office of Ministry of Environment, Forest and Climate Change by the coal or lignite based thermal power plants. Central Pollution Control Board and Central Electricity Authority shall compile the annual reports submitted by all the thermal power plants and submit to Ministry of Environment, Forest and Climate Change by 31st May.  
  
(ii) All other user agencies shall submit consumption or utilisation or disposal of ash and use of ash based products as mandated in this notification in the compliance report of Environmental Clearance (EC) issued by Ministry of Environment, Forest and Climate Change or State Level Environment Impact Assessment Authority (SEIAA) or Consent to Operate (CTO) issued by State Pollution Control Board (SPCB) or Pollution Control Committee (PCC), whichever is applicable. The Central Pollution Control Board (CPCB) or State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall publish annual report of ash utilisation of all other agencies except thermal power plants to review the effective implementation of the provisions of the notification.
- (3) For the purpose of monitoring the implementation of the provisions of this notification, a committee shall be constituted under the Chairperson, Central Pollution Control Board (CPCB), with members from Ministry of Power, Ministry of Coal, Ministry of Mines, Ministry of Environment, Forest and Climate Change, Ministry Road Transportation and Highways, Department of Heavy Industry as well as any concerned stakeholder(s), to be nominated by the Chairman of the committee. The committee may make recommendations for effective and efficient implementation of the provisions of the notification. The committee shall meet at least once in six months and review annual implementation reports and the committee shall also hold stakeholder consultations for monitoring of ash utilisation as mandated by this notification by inviting relevant stakeholder(s) at least once in six months. The committee shall submit the six monthly report to Ministry of Environment, Forest and Climate Change (MoEFCC).

- (4) For the purpose of resolving disputes between thermal power plants and users of ash or manufacturer of ash based products, the State Governments or Union territory administration constitute a Committee within three months from the date of publication of this notification under the Chairman, State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) with representatives from Department of Power, and one representative from the Department which deals with the subject of concerned agency with which dispute is made.
- (5) The compliance audit for ash disposal by the thermal power plants and the user agency shall be conducted by auditors, authorised by Central Pollution Control Board (CPCB) and audit report shall be submitted to Central Pollution Control Board (CPCB) and concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) by 30th November every year. Central Pollution Control Board (CPCB) and concerned State Pollution Control Board (SPCB) or Pollution Control Committee (PCC) shall initiate action against non-compliant thermal power plants within fifteen days of receipt of audit report.

[F. No. HSM-9/1/2019-HSM]

NARESH PAL GANGWAR, Jt. Secy.

**Annexure**Ash Compliance Report (for the period 1<sup>st</sup> April-31<sup>st</sup> March) to be submitted on or before 31<sup>st</sup> May.

Sl. No.	Details	
1.	Name of Power Plant	
2.	Name of the company	
3.	District	
4.	State	
5.	Postal address for communication:	
6.	E-mail:	
7.	Power Plant installed capacity (MW):	
8.	Plant Load Factor (PLF):	
9.	No. of units generated (MWh):	
10.	Total area under power plant (ha): (including area under ash ponds)	
11.	Quantity of coal consumption during reporting period (Metric Tons per Annum):	
12.	Average ash content in percentage (per cent):	
13.	Quantity of current ash generation during reporting period (Metric Tons per Annum): Fly ash (Metric Tons per Annum): Bottom ash (Metric Tons per Annum):	
14.	Capacity of dry fly ash storage silo(s) (Metric Tons) :	
15.	Details of utilisation of current ash generated during reporting period (a) Total quantity of current ash utilised (MTPA) during reporting period: (b) Quantity of fly ash utilised (MTPA): (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) (ii) Cement manufacturing:	



## Consent Order

M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

RED-LARGE

CCA-Renewal

Validity(A/W): 31.03.2026

CONSENT NO: \*\*\*

PCB ID: 33488

Outward No:119579,13/01/2024

Consent No:AW-59547

To,  
The Occupier,  
M/s. NTPC Khargone Super Thermal Power Project,  
Village Selda & Dalchi, Tal : Badwah,  
Dist : Khargone (M.P.)- 451114  
Latitude : 22.0678 Longitude : 75.8558

Subject: Grant of Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974 & under section 21 of the Air (Prevention & Control of Pollution) Act,1981

Ref: Your Application Receipt No. 1324360 Dt. 19/12/2023 and last communication received on Dt.15/12/2023

With reference to your above application for Renewal of consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/03/2026, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

### SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: Village Selda & Dalchi, Tal : Badwah, Dist : Khargone (M.P.)- 451114  
Latitude : 22.0678 Longitude : 75.8558

b. The capital investment : Rs. 9870.0 Crs

c. Product & Production Capacity:

Product	Qty / year
Electricity Generation (Coal Based Thermal Power Plants)	1320 MWH (2× 660 MWh) (One Thousand Three Hundred & Twenty Megawatt Hour) (Unit-1& Unit 2)

### Special Conditions:-

- For any change in above industry shall obtain fresh consent from the board.
- Industry shall have to develop following facility to handled Gypsum sludge generating from FGD:
  - Mechanical de-watering method like filter press or centrifuge to reduce the water content.
  - To provide proper storage tank/ covered storage area to store the FGD sludge. The stabilization of the sludge chemically or physically to prevent leaching of contaminants.
  - To explore opportunities for re-using the treated sludge in construction/cement industries and other applications.
- Industry shall comply the provisions of fly ash notification 2021.
- Industry shall ensure that the fly ash is transported only using bulkers or vehicles having automatic tarpaulin cover system.

The Validity of the consent is up to 31/03/2026 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

### Enclosures:-

- \* Conditions under Water Act
- \* Conditions under Air Act
- \* General conditions

By the order of Chairman, MPPCB



Signature Not Verified  
Digitally Signed by : Chandra  
Mohan Thakur IAS  
Date: 13/01/2024 06:04:42 PM

CHANDRA MOHAN THAKUR  
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)  
TPAV # FCS6W90830



## Consent Order

M.P. Pollution Control Board  
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Tele : 0755-2466191, Fax-0755-2463742

### CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent of the unit shall not exceed **16172.0 KL/day**, and the daily quantity of sewage of the unit shall not exceed **575.0 KL/day**.

#### 2. Trade Effluent Treatment:-

The applicant shall operate effluent treatment system and maintain the same properly to achieve following standards-

pH	Between	5.5 - 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD <sub>5</sub> Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

*For other parameters general standards of discharge as notified under EP Act 1986 notified by MPPCB from time to time shall be applicable*

#### 3. Sewage Treatment :-

The applicant shall operate and maintain sewage treatment facility to achieve following standards-

pH	Between	6.5 - 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>5</sub> Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
fecal coliform	Not exceed	1000 MPN/100 ml

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence **zero discharge condition** shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

Sr	Water Code (Qty in KLD)	WC : 89928.0	WWG : 16747.0	Water Source	Remark
1	Cooling Water	75072.0	13656.0	River	Cooling Water Systems+Service Water Systems+Evpn losses
2	D.M Water Plant	2016.0	432.0		DM gen.Boiler Feed,DM cycle make up
3	Domestic Purpose	1128.0	575.0		Domestic/Potable use Plant& Township
4	Others .....	10584.0	1584.0		Ash Water System

6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.

7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

#### 9. Compilation of Monitoring data-

i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.

ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

iii. The applicant shall take samples and measure ~~monitored~~ **monitored** the monthly requirements specified above and report online



## **Consent Order**

M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
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through XGN the same to the Board.

### **10. Recording of Monitoring Activities & Results-**

i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:

- (i) The date, exact place and time of sampling
- (ii) The dates on which analysis were performed
- (iii) Who performed the analysis?
- (iv) The analytical techniques or methods used and
- (v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

### **11. Reporting of Monitoring Results:-**

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

### **12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-**

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

### **13. Limitation of visible floating solids and foam:-**

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

### **14. Disposal of Collected Solid waste/sludge-**

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water. Any live fish, Shell fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

### **15. Provision for Electric Power Failure-**

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

### **16. Prohibition of By pass system of treatment facilities-**

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

17. TPP management shall submit the information online through XGN in reference to compliance of consent conditions.

### **Additional Water condition:-**

1. All the recommendations made in the Charter on Corporate Responsibilities for Environment Protection(CREP) for thermal power sector shall be strictly implemented.
2. Industry shall comply with the parameters notified in the Environment (Protection) Rules, 1986 notified by G.S.R. 3305(E) 7/12/15 as amended, for Thermal Power Plants.
3. The effluent will be treated in ETP and be used in ash slurry preparation, dust suppression and plantation. The domestic

**Consent No:AW-59547**



## **Consent Order**

**M.P. Pollution Control Board**  
**E-5, Arera Colony**  
**Paryavaran Parisar, Bhopal - 16 MP**  
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effluent of plant and colony will be treated through sewage treatment plant and will be used within factory premises. Zero discharge condition shall be maintained.

4. Industry shall provide adequate facility for the treatment of industrial (including the bleed from boiler house) and domestic waste water to ensure that the treated effluent quality meets the standards prescribed by M. P. Pollution Control Board published in notification of Govt. of M. P. Gazette dated: 25/03/88.
5. As per the MoEF & CC notification dated 2015, the unit shall have to convert the Once Through Cooling (OTC) if any, to Cooling Tower (CT) by 6th of December 2017, and shall have to achieve specific water consumption upto maximum of 3.5 m<sup>3</sup>/MWh.
6. Industry shall maintain closed cycle system with cooling tower. Once through cooling if any shall not be used. All the cooling tower blow down shall be reused in fire fighting, service water, coal handling plant and ash handling after proper treatment.
7. The industry shall operate & maintain Ash Water Recirculation System (AWRS) to ensure 100% recirculation of overflow of the ash dyke. Industry shall make arrangement for transportation of fly ash to ash pond in the form of medium slurry mode system having 38% ash and 62% water as per MoEF directives.
8. Regular reports for proximate and ultimate analysis of the coal for all parameters including mercury shall be submitted to the Board.
9. Water table depletion study in and around the project area shall be carried out by the project. All possible efforts including rain water harvesting to recharge ground water shall be taken up for the ground water enrichment in consultation with the Central Ground Water Authority.
10. Fly ash shall be collected in dry form and shall explore the possibility that storage facility (silo) of fly ash should be at least for one day. Un-utilized fly ash shall be disposed off in the ash pond in the form of high concentration slurry disposal. Industry shall also monitor mercury and other heavy metals (As, Hg, Cr, Pb etc.) in the bottom ash as also in the effluents from the ash pond. For disposal of ash in low lying area/mine for void filling prior permission from the Board be obtained, and conditions stipulated therein shall be followed.
11. As per the MoEF & CC notification dated 2015, the unit shall have to convert the Once Through Cooling (OTC) if any, to Cooling Tower (CT) by 6th of December 2017, and shall have to achieve specific water consumption upto maximum of 3.5 m<sup>3</sup>/MWh.
12. Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Ash pond water shall be re-circulated and utilized in the process or other beneficial purposes in the plant.
13. Industry shall regenerate the village ponds/surface water bodies located within 5 km radius of the project site as a part of its social welfare activities.
14. Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing peizometers in the vicinity of ash pond site.
15. Industry shall make arrangement for transportation of fly ash to ash pond in the form of medium slurry mode system having 38% ash and 62% water as per MoEF amendment.
16. The industry shall ensure that the effluents from various sections are collected properly at the place of generation in suitable collection tanks, and should be pumped to the collection reservoir to avoid ingress of pollutants in ground from the open drains.
17. The drains should be maintained properly with respect to cleaning of sediments, grass, garbage etc at various places. Necessary steps should be taken so that instead of open drains, industry should adopt piped conveyance of the effluent. Sources of fluoride leakages / fall out of the fluoride shall be controlled.

**Consent No:AW-59547**



## Consent Order

**M.P. Pollution Control Board**  
E-5, Arera Colony  
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### CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall operate and maintain air pollution control system to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Stack height (meters)	Control equipment to be installed	P.M, SOX, NO <sub>x</sub> , Hg (mg/NM <sup>3</sup> )
Boiler	unit-I 660MW	275 (Twin-Flue)	Air Pre-heater, Bag Filter, E.S.P, Green Belt, Heater/Furnace-Low Sulphur Fuel, Low NOx Burner, Water Sprinkler,	30,100,100,0.03
Boiler	unit-II 660MW		Air Pre-heater, Bag Filter, E.S.P, Green Belt, Heater/Furnace-Low Sulphur Fuel, Low NOx Burner, Water Sprinkler,	[To be achieved as per the time frame given by CPCB vide directions dated 20/12/2019]
D.G. Sets	For unit-I, 1500 KVA	30	Accoustic enclosure, Green Belt, Hood Cover	As per CPCB norms
D.G. Sets	For unit-II, 1500 KVA	30	Accoustic enclosure, Green Belt, Hood Cover,	As per CPCB norms
Material Handling, Loading-unloading, Haul roads, Transportation, CHP etc	Fugitive emissions	0	Dust Suppressor, Green Belt, Hood Cover, Water Sprinkler,	SPM/RSPM (Annual Average)(µg/Nm <sup>3</sup> )430/ 215

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated:

16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 µg/m<sup>3</sup> (PM10 µg/m<sup>3</sup> 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m<sup>3</sup> (PM2.5 µg/m<sup>3</sup> 24 hrs. basis)
- Sulphur Dioxide [SO<sub>2</sub>] (24 hrs. Basis) - 80 µg/m<sup>3</sup>
- Nitrogen Oxides [NO<sub>x</sub>] (24 hrs. Basis) - 80 µg/m<sup>3</sup>
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m<sup>3</sup>

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

8. Industry shall take effective steps for extensive tree plantation preferably of the local tree species within or around the industry/unit premises for general improvement of environmental conditions.

#### Additional Air condition:-

- The TPP shall have to abide by the timelines for the achievement of new emission norms as per the MoEF&CC notification G.S.R. 682(E) dated 05/09/2022 according to the categorization of the TPP.
- The industry shall install sulphur recovery system / FGD for control of sulphur dioxide emission as directed by CPCB. Provision for installation of sulphur recovery plant in future shall be made in the plant layout by leaving open space

**Consent No:AW-59547**



## **Consent Order**

**M.P. Pollution Control Board**  
**E-5, Arera Colony**  
**Paryavaran Parisar, Bhopal - 16 MP**  
**Tele : 0755-2466191, Fax-0755-2463742**

reserved for this purpose.

3. Industry shall regularly operate CAAQMS stations at suitable locations to monitor ambient air quality and stack emission. The management shall provide and ensure uninterrupted connectivity of CAAQMS with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose. Similarly CEMS shall be provided to monitor the emissions at each stack and CEQMS shall be provided for the monitoring of treated effluent quality and uninterrupted connectivity with Environment Surveillance Centre at the HQ of M.P. shall be provided.
4. Industry shall have to provide & operate adequate pollution control arrangement at all points and non point sources. Suitable air pollution control equipments shall be installed for the control of fugitive emission during the handling/transportation of raw material and fly ash etc. Industry should improve house keeping near fly ash loading system/silo.
5. In case of coal being imported, or as per the statutory applicable norms being in force, the industry shall install sulphur recovery system for control of sulphur dioxide emission.
6. Industry shall install adequate dust extraction and dust suppression system to control fugitive emissions from the crushinghouse, dumper, conveyor belt, moving vehicles, pneumatic compressors, raw material handling and other vulnerable dusty areas.
7. Coal transportation to the plant site shall be undertaken by rail and no road transportation shall be undertaken as far as possible. The entire internal roads should be made pucca and good housekeeping practices shall be adopted.
8. Dry fly ash collection system shall be installed for regular disposal of generated fly ash in dry form. Fly ash generated during the process shall be utilized as per the provisions of Fly Ash Notification for beneficial uses such as brick making, road construction, cement making etc.
9. The Industry shall regularly operate Outdoor HD Industrial grade IP(Internet Protocol) Cameras with pan-TiltZoom(PTZ) feature, minimum focal length 5X with night vision facility and temper proof mechanism at suitable location to display all emission sources / stacks, coal yards coal conveyors / crushers and effluent discharge point and connect the same with Environment Surveillance Centre, MP Pollution control board Bhopal, and ensure its uninterrupted connectivity for remote Surveillance.
10. Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> and Hg shall be carried out in the impact zone and records shall be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be taken immediately.
11. Industry should make appropriate arrangement for protection of the green belt. Massive plantation shall be undertaken under the guidance of forest Department/Horticulture expert. Local Species shall be planted all around the periphery of the industry as well as the ash dyke.
12. The entire internal roads should be made pucca and good housekeeping practices shall be adopted. 12. Industry management shall regulate the generation of electricity according to its fly ash handling and availability of ash holding capacity of the ash dyke(s).
13. The industry shall take steps to incorporate following measures for improvement in pollution control arrangements:
  - a. Installation of stationery water sprinkler in Ash Pond area.
  - b. Installation of fogger system in Silo Area.
  - c. Industry shall incorporate pressurized mist gun in coal track line and mist gun in fly ash silo area.
  - d. Management of on-site Hazardous waste storage site as per CPCB guidelines such as raising floor level, inside and outside drainage arrangement, catch pit etc.

**Consent No:AW-59547**



## Consent Order

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### GENERAL CONDITIONS:

1. The non hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

#### Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny bags etc	Record should be maintained	Sale to authorized party/As Per CPCB, MoEF Guide lines / Others.
Fly ash	1,73,333.0 MT/mo	
Bottom ash	43,333.0 MT/mo	

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent; or,
- To sample at reasonable times any discharge or pollutants.

3. This consent is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month

6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

7. Balance consent fee, if any shall be recoverable by the Board even at a later date.

8. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent.

9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.

10. Industry shall obtain membership of Emergency Response Center of the Board if needed.

11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Consent No:AW-59547



## **Consent Order**

**M.P. Pollution Control Board**  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

### **Additional condition:-**

1. The industry management shall procure/make provision of the Bulkers/closed transport vehicles under its control to ensure fast and quick delivery of fly ash for ensuring free delivery of fly ash within the radius up to 300 km radius to the prospective users as per provision of Fly ash Notification.
2. The industry shall have to comply with the orders of Hon. NGT and other competent courts, regarding the deposition of environmental compensation levied upon it, if any, from time to time.
3. The industry shall comply with all conditions stipulated by the GOI, MoEF&CC in the EC.
4. The management shall inventories the other solid wastes generated in the plant & colony and detailed plan of disposal of the same shall be submitted to the Board within one month.
5. This consent renewal in no way be taken as measures of proof that the industry has not violated any pollution control laws at any time in the past. Hence, whatsoever may be decision of the Hon'ble Courts/NGT, shall be binding to both industry and this Board.
6. The industry shall not raise any ash dyke without permission from Board and submission of stability study reports.
7. Freeboard shall be maintained in all the ash dykes as stipulated/directed and shall keep additional freeboard for accommodating the peak rainfall of last 50 years. A bench mark level bearing report and marking in the dykes shall be submitted to the Board within one month from date of issue of this letter.
8. The industry shall submit Ash dyke safety report every year, which shall be done by institute of repute.

***Renewal of Consent as required under the Water (Prevention & Control of Pollution) Act, 1974 & The Air (Prevention & Control of Pollution) Act, 1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For further renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.***

**For and on behalf of  
M.P. Pollution Control Board**

**By the order of Chairman, MPPCB**

**CHANDRA MOHAN THAKUR**  
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)  
TPAV # FCS6W9O830

**Consent No:AW-59547**



## Consent Order

M.P. Pollution Control Board  
E-5, Arera Colony  
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RED-LARGE

CCA-Renewal

Validity(A/W): 31.03.2026

CONSENT NO: \*\*\*

PCB ID: 33488

Outward No:119579,13/01/2024

Consent No:AW-59547

To,  
The Occupier,  
M/s. NTPC Khargone Super Thermal Power Project,  
Village Selda & Dalchi, Tal : Badwah,  
Dist : Khargone (M.P.)- 451114  
Latitude : 22.0678 Longitude : 75.8558

Subject: Grant of Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974 & under section 21 of the Air (Prevention & Control of Pollution) Act,1981

Ref: Your Application Receipt No. 1324360 Dt. 19/12/2023 and last communication received on Dt.15/12/2023

With reference to your above application for Renewal of consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/03/2026, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

### SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location: Village Selda & Dalchi, Tal : Badwah, Dist : Khargone (M.P.)- 451114  
Latitude : 22.0678 Longitude : 75.8558
- The capital investment : Rs. 9870.0 Crs
- Product & Production Capacity:

Product	Qty / year
Electricity Generation (Coal Based Thermal Power Plants)	1320 MWH (2× 660 MWh) (One Thousand Three Hundred & Twenty Megawatt Hour) (Unit-1& Unit 2)

### Special Conditions:-

- For any change in above industry shall obtain fresh consent from the board.
- Industry shall have to develop following facility to handled Gypsum sludge generating from FGD:
  - Mechanical de-watering method like filter press or centrifuge to reduce the water content.
  - To provide proper storage tank/ covered storage area to store the FGD sludge. The stabilization of the sludge chemically or physically to prevent leaching of contaminants.
  - To explore opportunities for re-using the treated sludge in construction/cement industries and other applications.
- Industry shall comply the provisions of fly ash notification 2021.
- Industry shall ensure that the fly ash is transported only using bulkers or vehicles having automatic tarpaulin cover system.

The Validity of the consent is up to 31/03/2026 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

### Enclosures:-

- \* Conditions under Water Act
- \* Conditions under Air Act
- \* General conditions

By the order of Chairman, MPPCB



Signature Not Verified  
Digitally Signed by : Chandra  
Mohan Thakur, IAS  
Date: 13/01/2024 06:04:42 PM

CHANDRA MOHAN THAKUR  
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)  
TPAV # FCS6W90830



## Consent Order

M.P. Pollution Control Board  
E-5, Arera Colony  
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### CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent of the unit shall not exceed **16172.0 KL/day**, and the daily quantity of sewage of the unit shall not exceed **575.0 KL/day**.

#### 2. Trade Effluent Treatment:-

The applicant shall operate effluent treatment system and maintain the same properly to achieve following standards-

pH	Between	5.5 - 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD <sub>5</sub> Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

*For other parameters general standards of discharge as notified under EP Act 1986 notified by MPPCB from time to time shall be applicable*

#### 3. Sewage Treatment :-

The applicant shall operate and maintain sewage treatment facility to achieve following standards-

pH	Between	6.5 - 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>5</sub> Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
fecal coliform	Not exceed	1000 MPN/100 ml

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence **zero discharge condition** shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

Sr	Water Code (Qty in KLD)	WC : 89928.0	WWG : 16747.0	Water Source	Remark
1	Cooling Water	75072.0	13656.0	River	Cooling Water Systems+Service Water Systems+Evpn losses
2	D.M Water Plant	2016.0	432.0		DM gen.Boiler Feed,DM cycle make up
3	Domestic Purpose	1128.0	575.0		Domestic/Potable use Plant& Township
4	Others .....	10584.0	1584.0		Ash Water System

6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.

7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

#### 9. Compilation of Monitoring data-

- Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.
- The applicant shall take samples and measurements as per the monitoring requirements specified above and report online



## **Consent Order**

M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

through XGN the same to the Board.

### **10. Recording of Monitoring Activities & Results-**

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:
  - (i) The date, exact place and time of sampling
  - (ii) The dates on which analysis were performed
  - (iii) Who performed the analysis?
  - (iv) The analytical techniques or methods used and
  - (v) The result of all required analysis
- iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.
- iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

### **11. Reporting of Monitoring Results:-**

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

### **12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-**

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

### **13. Limitation of visible floating solids and foam:-**

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

### **14. Disposal of Collected Solid waste/sludge-**

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water. Any live fish, Shell fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

### **15. Provision for Electric Power Failure-**

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

### **16. Prohibition of By pass system of treatment facilities-**

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

17. TPP management shall submit the information online through XGN in reference to compliance of consent conditions.

### **Additional Water condition:-**

1. All the recommendations made in the Charter on Corporate Responsibilities for Environment Protection(CREP) for thermal power sector shall be strictly implemented.
2. Industry shall comply with the parameters notified in the Environment (Protection) Rules, 1986 notified by G.S.R. 3305(E) 7/12/15 as amended, for Thermal Power Plants.
3. The effluent will be treated in ETP and be used in ash slurry preparation, dust suppression and plantation. The domestic

**Consent No:AW-59547**



## **Consent Order**

**M.P. Pollution Control Board**  
**E-5, Arera Colony**  
**Paryavaran Parisar, Bhopal - 16 MP**  
**Tele : 0755-2466191, Fax-0755-2463742**

effluent of plant and colony will be treated through sewage treatment plant and will be used within factory premises. Zero discharge condition shall be maintained.

4. Industry shall provide adequate facility for the treatment of industrial (including the bleed from boiler house) and domestic waste water to ensure that the treated effluent quality meets the standards prescribed by M. P. Pollution Control Board published in notification of Govt. of M. P. Gazette dated: 25/03/88.
5. As per the MoEF & CC notification dated 2015, the unit shall have to convert the Once Through Cooling (OTC) if any, to Cooling Tower (CT) by 6th of December 2017, and shall have to achieve specific water consumption upto maximum of 3.5 m<sup>3</sup>/MWh.
6. Industry shall maintain closed cycle system with cooling tower. Once through cooling if any shall not be used. All the cooling tower blow down shall be reused in fire fighting, service water, coal handling plant and ash handling after proper treatment.
7. The industry shall operate & maintain Ash Water Recirculation System (AWRS) to ensure 100% recirculation of overflow of the ash dyke. Industry shall make arrangement for transportation of fly ash to ash pond in the form of medium slurry mode system having 38% ash and 62% water as per MoEF directives.
8. Regular reports for proximate and ultimate analysis of the coal for all parameters including mercury shall be submitted to the Board.
9. Water table depletion study in and around the project area shall be carried out by the project. All possible efforts including rain water harvesting to recharge ground water shall be taken up for the ground water enrichment in consultation with the Central Ground Water Authority.
10. Fly ash shall be collected in dry form and shall explore the possibility that storage facility (silo) of fly ash should be at least for one day. Un-utilized fly ash shall be disposed off in the ash pond in the form of high concentration slurry disposal. Industry shall also monitor mercury and other heavy metals (As, Hg, Cr, Pb etc.) in the bottom ash as also in the effluents from the ash pond. For disposal of ash in low lying area/mine for void filling prior permission from the Board be obtained, and conditions stipulated therein shall be followed.
11. As per the MoEF & CC notification dated 2015, the unit shall have to convert the Once Through Cooling (OTC) if any, to Cooling Tower (CT) by 6th of December 2017, and shall have to achieve specific water consumption upto maximum of 3.5 m<sup>3</sup>/MWh.
12. Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Ash pond water shall be re-circulated and utilized in the process or other beneficial purposes in the plant.
13. Industry shall regenerate the village ponds/surface water bodies located within 5 km radius of the project site as a part of its social welfare activities.
14. Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing piezometers in the vicinity of ash pond site.
15. Industry shall make arrangement for transportation of fly ash to ash pond in the form of medium slurry mode system having 38% ash and 62% water as per MoEF amendment.
16. The industry shall ensure that the effluents from various sections are collected properly at the place of generation in suitable collection tanks, and should be pumped to the collection reservoir to avoid ingress of pollutants in ground from the open drains.
17. The drains should be maintained properly with respect to cleaning of sediments, grass, garbage etc at various places. Necessary steps should be taken so that instead of open drains, industry should adopt piped conveyance of the effluent. Sources of fluoride leakages / fall out of the fluoride shall be controlled.

**Consent No:AW-59547**



## Consent Order

M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

### **CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-**

1. The applicant shall operate and maintain air pollution control system to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Stack height (meters)	Control equipment to be installed	P.M, SOX, NO <sub>x</sub> , Hg (mg/NM <sup>3</sup> )
Boiler	unit-I 660MW	275 (Twin-Flue)	Air Pre-heater, Bag Filter, E.S.P, Green Belt, Heater/Furnace-Low Sulphur Fuel, Low NOx Burner, Water Sprinkler,	30,100,100,0.03
Boiler	unit-II 660MW		Air Pre-heater, Bag Filter, E.S.P, Green Belt, Heater/Furnace-Low Sulphur Fuel, Low NOx Burner, Water Sprinkler,	[To be achieved as per the time frame given by CPCB vide directions dated 20/12/2019]
D.G. Sets	For unit-I, 1500 KVA	30	Accoustic enclosure, Green Belt, Hood Cover	As per CPCB norms
D.G. Sets	For unit-II, 1500 KVA	30	Accoustic enclosure, Green Belt, Hood Cover,	As per CPCB norms
Material Handling, Loading-unloading, Haul roads, Transportation, CHP etc	Fugitive emissions	0	Dust Suppressor, Green Belt, Hood Cover, Water Sprinkler,	SPM/RSPM (Annual Average)(µg/Nm <sup>3</sup> )430/ 215

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated:

16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 µg/m<sup>3</sup> (PM10 µg/m<sup>3</sup> 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m<sup>3</sup> (PM2.5 µg/m<sup>3</sup> 24 hrs. basis)
- Sulphur Dioxide [SO<sub>2</sub>] (24 hrs. Basis) - 80 µg/m<sup>3</sup>
- Nitrogen Oxides [NO<sub>x</sub>] (24 hrs. Basis) - 80 µg/m<sup>3</sup>
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m<sup>3</sup>

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

8. Industry shall take effective steps for extensive tree plantation preferably of the local tree species within or around the industry/unit premises for general improvement of environmental conditions.

### **Additional Air condition:-**

- The TPP shall have to abide by the timelines for the achievement of new emission norms as per the MoEF&CC notification G.S.R. 682(E) dated 05/09/2022 according to the categorization of the TPP.
- The industry shall install sulphur recovery system / FGD for control of sulphur dioxide emission as directed by CPCB. Provision for installation of sulphur recovery plant in future shall be made in the plant layout by leaving open space

Consent No:AW-59547



## **Consent Order**

**M.P. Pollution Control Board**  
**E-5, Arera Colony**  
**Paryavaran Parisar, Bhopal - 16 MP**  
**Tele : 0755-2466191, Fax-0755-2463742**

reserved for this purpose.

3. Industry shall regularly operate CAAQMS stations at suitable locations to monitor ambient air quality and stack emission. The management shall provide and ensure uninterrupted connectivity of CAAQMS with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose. Similarly CEMS shall be provided to monitor the emissions at each stack and CEQMS shall be provided for the monitoring of treated effluent quality and uninterrupted connectivity with Environment Surveillance Centre at the HQ of M.P. shall be provided.
4. Industry shall have to provide & operate adequate pollution control arrangement at all points and non point sources. Suitable air pollution control equipments shall be installed for the control of fugitive emission during the handling/transportation of raw material and fly ash etc. Industry should improve house keeping near fly ash loading system/silo.
5. In case of coal being imported, or as per the statutory applicable norms being in force, the industry shall install sulphur recovery system for control of sulphur dioxide emission.
6. Industry shall install adequate dust extraction and dust suppression system to control fugitive emissions from the crushinghouse, dumper, conveyor belt, moving vehicles, pneumatic compressors, raw material handling and other vulnerable dusty areas.
7. Coal transportation to the plant site shall be undertaken by rail and no road transportation shall be undertaken as far as possible. The entire internal roads should be made pucca and good housekeeping practices shall be adopted.
8. Dry fly ash collection system shall be installed for regular disposal of generated fly ash in dry form. Fly ash generated during the process shall be utilized as per the provisions of Fly Ash Notification for beneficial uses such as brick making, road construction, cement making etc.
9. The Industry shall regularly operate Outdoor HD Industrial grade IP(Internet Protocol) Cameras with pan-TiltZoom(PTZ) feature, minimum focal length 5X with night vision facility and temper proof mechanism at suitable location to display all emission sources / stacks, coal yards coal conveyors / crushers and effluent discharge point and connect the same with Environment Surveillance Centre, MP Pollution control board Bhopal, and ensure its uninterrupted connectivity for remote Surveillance.
10. Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> and Hg shall be carried out in the impact zone and records shall be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be taken immediately.
11. Industry should make appropriate arrangement for protection of the green belt. Massive plantation shall be undertaken under the guidance of forest Department/Horticulture expert. Local Species shall be planted all around the periphery of the industry as well as the ash dyke.
12. The entire internal roads should be made pucca and good housekeeping practices shall be adopted. 12. Industry management shall regulate the generation of electricity according to its fly ash handling and availability of ash holding capacity of the ash dyke(s).
13. The industry shall take steps to incorporate following measures for improvement in pollution control arrangements:
  - a. Installation of stationery water sprinkler in Ash Pond area.
  - b. Installation of fogger system in Silo Area.
  - c. Industry shall incorporate pressurized mist gun in coal track line and mist gun in fly ash silo area.
  - d. Management of on-site Hazardous waste storage site as per CPCB guidelines such as raising floor level, inside and outside drainage arrangement, catch pit etc.

**Consent No:AW-59547**



## Consent Order

M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
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### **GENERAL CONDITIONS:**

1. The non hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

#### **Non Hazardous Solid wastes:-**

Type of waste	Quantity	Disposal
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2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month

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10. Industry shall obtain membership of Emergency Response Center of the Board if needed.

11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

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- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

**Consent No:AW-59547**



## **Consent Order**

**M.P. Pollution Control Board**  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

### **Additional condition:-**

1. The industry management shall procure/make provision of the Bulkers/closed transport vehicles under its control to ensure fast and quick delivery of fly ash for ensuring free delivery of fly ash within the radius up to 300 km radius to the prospective users as per provision of Fly ash Notification.
2. The industry shall have to comply with the orders of Hon. NGT and other competent courts, regarding the deposition of environmental compensation levied upon it, if any, from time to time.
3. The industry shall comply with all conditions stipulated by the GOI, MoEF&CC in the EC.
4. The management shall inventories the other solid wastes generated in the plant & colony and detailed plan of disposal of the same shall be submitted to the Board within one month.
5. This consent renewal in no way be taken as measures of proof that the industry has not violated any pollution control laws at any time in the past. Hence, whatsoever may be decision of the Hon'ble Courts/NGT, shall be binding to both industry and this Board.
6. The industry shall not raise any ash dyke without permission from Board and submission of stability study reports.
7. Freeboard shall be maintained in all the ash dykes as stipulated/directed and shall keep additional freeboard for accommodating the peak rainfall of last 50 years. A bench mark level bearing report and marking in the dykes shall be submitted to the Board within one month from date of issue of this letter.
8. The industry shall submit Ash dyke safety report every year, which shall be done by institute of repute.

*Renewal of Consent as required under the Water (Prevention & Control of Pollution) Act, 1974 & The Air (Prevention & Control of Pollution) Act, 1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For further renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.*

**For and on behalf of  
M.P. Pollution Control Board**

**By the order of Chairman, MPPCB**

**CHANDRA MOHAN THAKUR**  
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)  
TPAV # FCS6W9O830

**Consent No:AW-59547**



**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण**  
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)  
**National Highways Authority of India**  
(Ministry of Road Transport and Highways, Govt. of India)



भारतमाला  
भारत के स्वप्न का मार्ग  
BHARATMALA  
ROAD TO PROSPERITY

परियोजना कार्यान्वयन इकाई / Project Implementation Unit

14, सम्पत हिल्स, सहारा सिटी के सामने, इन्दौर बायपास, बिचौली मर्दाना, इन्दौर (म.प्र.) 452016  
14, Sampat Hills, Opp. Sahara City, Indore Bypass, Bicholi Mardana, Indore (M.P.) 452 016  
दूरभाष/Phone : 0731-4975994 e-mail : [indore@nhai.org](mailto:indore@nhai.org), [indorenhai@gmail.com](mailto:indorenhai@gmail.com)

NHAI/PIU/IND/Indore-Edalbad/ROB(NTPC)/2020/

1639

Date: 23.12.2020

To,

The AGM (R/S),  
Khargone STPP,  
Selda (MP)

**Sub:** Approval of ROB for NTPC Khargone Plant Rail alignment crossing the Indore – Edlabad at Village Bomangaon to be executed partially by Khargone Super Thermal Power Project of NTPC Ltd and Partially by NHAI on Deposit Basis under the proposed 4 lane work of PKG-III from Km 43+000 to Km 81+000 in Madhya Pradesh under Bhartmala- reg.

**Ref:**

1. RO-Bhopal, e-office Note Dated 05.12.2020
2. RO-Bhopal letter no. NHAI/RO-MP/IND/Indore-Edalbad/ROB/2020/41105 dated 25.11.2020
3. This office letter no. NHAI/PIU/IND/B-D/ROB/2020/1453 dated 25.11.2020
4. DPR Consultant letter no. IEC/NHAI/IND-EDLV/2020-21/10386 dated 24.11.2020.
5. NHAI HQ letter dated 10.11.2020.
6. RO Bhopal letter no. NHAI/RO-MP/IND/Indore-Edalbad/ROB/2020/40630 dated 08.10.2020.
7. RO Bhopal letter no. NHAI/RO-MP/IND/Indore-Edalbad/ROB/2020/39637 dated 10.07.2020.
8. NHAI policy circular no. 11041/218/2007-Admn. dated 04.01.2011

0123

Sir,

This is reference to proposal of ROB for NTPC Khargone Plant Rail alignment crossing the Indore – Edlabad at Village Bomangaon to be executed partially by Khargone Super Thermal Power Project of NTPC Ltd and Partially by NHAI.

2. As per the approval received from competent authority details of cost required to be deposited to NHAI by NTPC for way leave facility & construction of approaches (including service road & drain) by NHAI is as follows.

Sl. No.	Description	Cost of approaches alongwith service road and drain (Rs in Cr.)	Cost of Bridge proper portion
1	Total civil cost	49.13	X
2	GST on civil cost	5.90	Y
3	Supervision charges @3.125%	1.72	Z1 = 0.03125 * (X+Y)

4	Maintenance charges during construction and DLP period @ 30%	16.51	$Z2 = 0.3 * (X+Y)$
5	Plan and Estimation Charges (@2%)	1.10	$Z3 = 0.02 * (X+Y)$
6	Land Charges (considering 30 years period)		$Z4 = 0.11 \text{ Cr.}$ (Rs. 12000 p.a.) on capitalized basis with interest @ 7% p.a
	Total	74.36	$Z5 =$ $Z1+Z2+Z3+Z4$
	Grand Total	74.36 + Z5	

3. Further, MOU (as per NHAI policy circular dated 04.01.2011) in this regard is also attached herewith for perusal & signing/execution at your end.

Submitted for kind consideration and necessary action please.

Encl :- MOU

Yours Sincerely,



Project Director

Project Implementation Unit, Indore



Copy to:

- The GM (T) – MP, NHAI HQ For kind information.
- The Regional Officer, RO-Bhopal for kind information.
- DPR Consultant, M/s Lion Engineering Consultant Pvt Ltd Bhopal.

0124



Emerson Automation Solutions  
 Emerson Process Management  
 ( India ) Private Limited  
 Delphi B Wing, 601-603  
 Central Avenue  
 Hiranandani Business Park  
 Powai, Mumbai – 400 076, India  
 Corporate Identity No :  
 U29196MH1981PTC024115  
[Process.India@Emerson.com](mailto:Process.India@Emerson.com)  
[www.emersonprocess.co.in](http://www.emersonprocess.co.in)  
 Tel.: +91 22 66620 566  
 Fax : +91 22 66620 500

**Dated 26<sup>th</sup> Sept'23**

**Kind Attention:** Dear Ovation User

**Subject:** Letter for existing Ovation users running on obsolete Operating system MS WIN7

This letter serves as a courtesy reminder that as you are very aware that Microsoft declared Windows 7 Operation System has reached to End of Life and no longer be supported post January 14, 2020. Compatible Dell Workstations installed with WIN 7 OS version are not available in market. The DELL workstations are now released with currently/latest supported OS only at present.

We at Emerson are always up to speed with Technology and are ready with the next versions of software which will be compatible with latest Microsoft Windows OS. Emerson also makes upgrading to next-generation systems easy. For more than 30 years, we have offered the best control system migration plan in the industry. Our strategy is simple — we keep as much of your existing investment in control technology as possible, which reduces engineering and training requirements and helps to keep the cost of your upgrade project in line with your budget. Our HMI Evergreen program is developed keeping in mind our continued focus on customer needs.

With this letter, we request you to please plan to upgrade your Ovation system installation to the latest available operating system software version, so that the investment in your asset is always secured by keeping it upgraded to latest levels as technology advances.

This upgrade will effectively protect your initial system investment, therefore prolonging and sustaining the system's life. We recommend that you move forward with the Ovation Evergreen Program to eliminate obsolete hardware and software. The Evergreen Program includes analysis of your system and the necessary planning needed for you to keep pace with advancements without budget overruns.

**Features of the Ovation Evergreen Program:**

- Extends the life of your investment by sustaining current or incorporating new technology in the system
- Includes security features to comply with newly instituted regulations
- Avoids emerging maintenance issues caused by aging technology
- Addresses the changing needs of system security requirements
- Requires only short outages



Emerson Automation Solutions  
Emerson Process Management  
( India ) Private Limited  
Delphi B Wing, 601-603  
Central Avenue  
Hiranandani Business Park  
Powai, Mumbai – 400 076. India  
Corporate Identity No :  
U29196MH1981PTC024115  
[Process.India@Emerson.com](mailto:Process.India@Emerson.com)  
[www.emersonprocess.co.in](http://www.emersonprocess.co.in)  
Tel.: +91 22 66620 566  
Fax : +91 22 66620 500

You may please call the **undersigned** and we will be happy to speak/discuss you about submit/discuss on a proposal for available solutions to ensure your installed Ovation system always remains upgraded to latest versions.

Regards,

A handwritten signature in blue ink, appearing to read "Hardeep", written over a horizontal line.

Hardeep Gollen  
Sr. Manager-Systems & Software Sales  
9818418810

Office of the Deputy Commandant  
Central industrial Security Force  
(Ministry of Home Affairs)

CISF Unit KSTPP/NTPC  
Khargone(M.P.)  
Dated-02.09.2023

NO:E42099/CISF/NTPC(K)/CIW/2023- 2945

To,

AGM (HR)  
NTPC Khargone(M.P.)

Subject : REQUIREMENTS OF CCTV CAMERAS IN FGD AREA :REG.

CISF committee has assessed the requirement of CCTV cameras in FGD area. These cameras are essentially required for better security and surveillance of these areas. The copy is attached herewith.

  
DY. Commandant  
CISF Unit NTPC Khargone

Khargone FGD CCTV System Locations & Quantity Requirements as finalized by CISF as on 05.08.2023 (In addition to Committee)					
S. No.	System	CCTV System Location	Type of CCTV Camera	Qty as finalized by Committee	Purpose
1	LHS	Weigh Bridge, Truck Tippler Area, Process Water System, Aux Absorbent System (Installation will be ensured on Lighting Mast Top)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Suspecting problematic area considering Truck Operators Movement thus Security requirements needs PTZ type camera
2		Compressor House	UHD IP Dome Camera with 360 View	1	Security
3		LHS Entrance Area /Air Receiver Tank Area	UHD IP Dome Camera with 360 View	1	Security
4		Electrical Control Building (ECB) MCC Room	UHD IP Dome Camera with 360 View	4	Security
5		ECB (C&I Control Room)	UHD IP Dome Camera with 360 View	1	Security
6		BRU-1A/1B Motor Floor	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
7		LC-1A/1B Floor (Tail Pulley Side)	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
8		LC-1A/1B Floor (MD Side)	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
9		ILMS-1A/1B Floor (Crusher House Top Floor)	UHD IP Dome Camera with 360 View	2	Operational Safety as well as Security
10		LVSE-1A/1B Floor (Crusher House)	UHD IP Dome Camera with 360 View	2	Operational Safety as well as Security
11		Limestone Crusher-1A/1B Floor (Crusher House)	UHD IP Dome Camera with 360 View	2	Operational Safety as well as Security
12		LC-2A/2B Floor (Drive Pulley/CBMS Side)	UHD IP Dome Camera with 360 View	4	Operational Safety as well as Security
13		LC-3A/3B Floor (Drive Pulley Side/Bulk Silo Top Floor)	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
14		LC-4A/4B Floor (Drive Pulley Side)	UHD IP Dome Camera with 360 View	2	Operational Safety as well as Security
15		LC-5A/5B Floor (Drive Pulley Side)	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
16		Limestone Hydrocyclone A/B Floor	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
17		Limestone Weigh Feeder A/B Floor	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
18	LGS & LS&TS & WBM Building	WBM A/B Ground Floor & Mill Recirculation Tank & Pumps Area	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	2	Operational Safety as well as Security
19		Limestone Slurry Storage & Transfer System	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
20		Emergency Cooling Water Tank Area	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
21	UH1 Absorber	UH1 Absorber 0 meter (In front of Gas Cooling Pumps, Gypsum Bleed Pumps & Absorber Emptying Pumps Area & OAB Transformers Porta Cabin & CEMS Porta Cabin Area)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Wide coverage requires PTZ due to security concerns
22		UH1 Absorber 0 meter (In front of OAB Area)	UHD IP Dome Camera with 360 View	1	Security
23	GDS	Gypsum Dewatering Pumps Area (Ground Floor between Secondary Hydrocyclone Pumps & Dust Suppression Pump Room)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Wide coverage requires PTZ due to security concerns
24		Gypsum Dewatering Building MCC Room	UHD IP Dome Camera with 360 View	3	Operational Safety as well as Security
25		Gypsum Dewatering Building Equipment Room (caters to Cake Wash, Cloth Wash, Vacuum System)	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
26		Gypsum Dewatering Building Equipment Room (caters to Gypsum Handling System which included Gypsum Conveyor A/B & Travelling Tripper-A/B)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Operational Safety as well as Security
27		Vacuum Belt Filter Room	UHD IP Dome Camera with 360 View	2	Operational Safety as well as Security
28		Gypsum Hydrocyclone Room & associated R/C Stations	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
29		Telescopic Chute Platform/Gypsum Stockpile Area	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	3	Suspecting problematic area considering Truck Operators Movement thus Security requirements needs PTZ type camera, as 3 entrances are there all 3 to be covered.
30		Lime Neutralisation System & Lime Storage Hall	UHD IP Dome Camera with 360 View	1	Operational Safety as well as Security
31	UH1 BUF Area	Booster Fan#1A/1B (Installation will be on ECB Top/outer wall)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Wide coverage required from SAPs & Combine Lube Oil Skid upto Biplane Damper thus requires PTZ due to security concerns
32	UH2 BUF Area	Booster Fan#2A/2B (Installation will be on ECB Top/outer wall))	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Wide coverage required from SAPs & Combine Lube Oil Skid upto Biplane Damper & DG Set, Oil Transformers Area thus requires PTZ due to security concerns
33	UH2 Absorber	UH2 Absorber 0 meter (In front of Gas Cooling Pumps, Gypsum Bleed Pumps & Absorber Emptying Pumps Area & OAB Transformers Porta Cabin & CEMS Porta Cabin Area)	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	Wide coverage requires PTZ due to security concerns
34		UH2 Absorber 0 meter (In front of OAB Area)	UHD IP Dome Camera with 360 View	1	Security
35	Miscellaneous	Future Requirements to be decided as per site requirements,	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	1	For Future Requirements
36			UHD IP Dome Camera with 360 View	1	
37	Spares	Spare CCTV Quantity (@20%) UHD IP Dome Camera	UHD IP Dome Camera with 360 View	4	Considering 10 % Spare requirements
38		Spare CCTV Quantity (@20%) UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	UHD IP PTZ Dome Camera with Auto Rotation of 360 Degrees	2	Considering 10 % Spare requirements
Grand Total				58	
Khargone FGD CCTV System Locations & Quantity Requirements as finalized by CISF as on 05.08.2023 addition to Committee Recommendation)					
1		Weigh Bridge	UHD IP Camera (Fixed Type)	1	due to security concerns
2		Truck Tippler	UHD IP Camera (Fixed Type)	1	due to security concerns
3		BRU House External (South side)	UHD IP Camera (Fixed Type)	2	due to security concerns
4		Crusher House External (South side)	UHD IP Camera (Fixed Type)	2	due to security concerns
5		Gypsum Storage Shed (South side)	UHD IP Camera (Fixed Type)	1	due to security concerns
6		Gypsum Weigh Bridge Area (North Side)	UHD IP Camera (Fixed Type)	1	due to security concerns
7		Gypsum Weigh Bridge Area (South side)	UHD IP Camera (Fixed Type)	1	due to security concerns
8		FGD Main Approach Road Area (above Pipe Truss)	UHD IP Camera (Fixed Type)	2	due to security concerns
9		FGD Approach Road Area (Between UH1 Absorber & Wet Ball Mill Building Area)	UHD IP Camera (Fixed Type)	1	due to security concerns
10		FGD Approach Road Area (Between UH2 Absorber & Crusher House Area)	UHD IP Camera (Fixed Type)	1	due to security concerns
11		Booster Fan#1A/1B (Installation will be on ECB Top/outer wall)	UHD IP Camera (Fixed Type)	1	due to security concerns
12		Booster Fan#2A/2B (Installation will be on ECB Top/outer wall))	UHD IP Camera (Fixed Type)	1	due to security concerns
Grand Total				23	

Office of the Deputy Commandant  
Central Industrial Security Force  
(Ministry of Home Affairs)

E-mail

CISF Unit : NTPC Khargone  
Post: Selda-451114

No : E-42099/CISF/NTPC(K)/SA/2024-1201

Dated: 15/10/2024

To,

The AGM, HR  
NTPC Khargone (MP)

**SUB: Requirement of PA system in the FGD area : reg.**

On the above subject it is bring to your kind notice that keeping in view safety of NTPC officials and workers a public announcement (PA) system in FGD area is required on urgent basis. This system is deemed essential for promptly disseminating information during emergency situations, Such as security incidents or fire outbreaks. Its implementation will enable swift communication, ensuring rapid response from personnel working in the area and significantly enhancing their safety and security.

Your cooperation for early action in this regard is solicited please.



15/10/24  
Deputy Commandant,  
CISF NTPC Khargone (MP)

**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:

NTPC Limited

Name of the Generating Station

Khargone

Stage-1

S. No.	Month	Unit	Apr-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A)</b>	<b>OPENING QUANTITY</b>						
1	Opening Quantity of Coal	(MT)	20862.88	40591.31	80765.53	132699.42	0.00
2	Value of Stock	(Rs.)	104098073.53	209534317.12	407610035.93	1917852975.02	0.00
<b>B)</b>	<b>QUANTITY</b>						
3	Quantity of Coal supplied by Coal Company	(MT)	214195.57	0.00	47821.56	65122.20	3146.36
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	214195.57	0.00	47821.56	65122.20	3146.36
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1713.56	0.00	382.57	130.24	0.00
7	Net Coal Supplied (5-6)	(MT)	212482.01	0.00	47438.99	64991.96	3146.36
<b>C)</b>	<b>PRICE</b>						
8	Amount charged by the Coal Company	(Rs.)	507530343.51	0.00	120419246.44	926971059.20	23623333.86
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	-32679584.83	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	41814517.03	0.00	5268654.03	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	549344860.54	0.00	125687900.47	894291474.37	23623333.86
<b>D)</b>	<b>TRANSPORTATION</b>						
12	Transportation charges by rail/ship/road transport	(Rs.)	425965151.98	0.00	88341101.24	0.00	4590062.93
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	523907.73		116968.27		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	425441244.25	0.00	88224132.97	0.00	4590062.93
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	974786104.79	0.00	213912033.44	894291474.37	28213396.79
<b>E)</b>	<b>TOTAL COST</b>						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4623.56	5162.05	4847.90	14224.92	8967.00
19	Blending Ratio (Domestic/Imported)		57.485%	8.385%	13.528%	19.766%	0.836%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	6633.19				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		6613.51				
<b>F)</b>	<b>QUALITY ( Stage - I, II, III, &amp; IV )</b>						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	3914.00	4751.00	4845.00		0.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4072.00	0.00	4979.00		3864.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5189.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4942.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4431				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4436				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3315.00	3671.00	3839.00		0.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3456.00	0.00	3654.00		3864.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5189.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4942.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3840				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3839				

Shailendra Kumar Yadav  
Digitally signed by Shailendra Kumar Yadav  
Date: 2024.05.23 16:25:29 +05'30'

ASHIM KUMAR GANGOPADHYAY

Digitally signed by ASHIM KUMAR GANGOPADHYAY  
DN: c=IN, st=Delhi, 2.5.4.20=41P482a74bd2848c2a37a6d7b2ce08585daddc7b07c572c1d3c2ce9d3bec1b, postalCode=110014, street=91 Siddhartha Enclave Near Ashram Chowk New Delhi, pseudonym=d200cc485177428c-bcfc-03ccfb400f27, serialNumber=810ad964eb5359bd80a84e35cc07c96f31ee316ac8a63f6b81cc532b24165, ou=SERVICES, o=J K S & ASSOCIATES, cn=ASHIM KUMAR GANGOPADHYAY  
Date: 2024.11.01 16:26:36 +05'30'

**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:

NTPC Limited

Name of the Generating Station

Khargone

Stage-1

S. No.	Month	Unit	May-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A)</b>	<b>OPENING QUANTITY</b>						
1	Opening Quantity of Coal	(MT)	17077.77	9045.30	77309.51	123328.15	0.00
2	Value of Stock	(Rs.)	78960172.97	46692290.24	374788391.22	1754333420.75	0.00
<b>B)</b>	<b>QUANTITY</b>						
3	Quantity of Coal supplied by Coal Company	(MT)	243175.86	101888.98	55490.14	0.00	3257.26
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	-2042.93	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	243175.86	99846.05	55490.14	0.00	3257.26
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1945.41	815.11	443.92	0.00	0.00
7	Net Coal Supplied (5-6)	(MT)	241230.45	99030.94	55046.22	0.00	3257.26
<b>C)</b>	<b>PRICE</b>						
8	Amount charged by the Coal Company	(Rs.)	586,396,894.01	242667067.89	130156869.49	0.00	24455521.07
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	45050636.51	18875901.13	10280075.40	0.00	-30282.00
11	Total amount Charged (8+9+10)	(Rs.)	631447530.52	261542969.02	140436944.89	0.00	24425239.07
<b>D)</b>	<b>TRANSPORTATION</b>						
12	Transportation charges by rail/ship/road transport	(Rs.)	473280396.85	274287506.00	102633870.15	0.00	3744063.30
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	0.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	473280396.85	274287506.00	102633870.15	0.00	3744063.30
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	1104727927.37	535830475.02	243070815.04	0.00	28169302.37
<b>E)</b>	<b>TOTAL COST</b>						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4582.46	5389.92	4668.17	14224.92	8648.16
19	Blending Ratio (Domestic/Imported)		59.085%	21.816%	1.419%	16.799%	0.882%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	6415.50				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		6395.64				
<b>F)</b>	<b>QUALITY ( Stage - I, II, III, &amp; IV )</b>						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4058.00	4751.00	4895.00		0.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	3995.00	4925.00	5286.00		3884.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5108.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				0.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4395				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4360				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3443.00	3671.00	3770.00		0.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3450.00	3455.00	4081.00		3884.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5108.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				0.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3744				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3742				

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## FORM- 15 : Details of Fuel for Computation of Energy Charges

Name of the Petitioner:

NTPC Limited

### Stage-1

Name of the Generating Station

Khareone

Name of the Generating Station		Kudapone	Stage-1				
S. No.	Month	Unit	Jun-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
A)	OPENING QUANTITY						
1	Opening Quantity of Coal	(MT)	45411.85	29469.25	127243.73	62798.45	79.46
2	Value of Stock	(Rs.)	208098149.08	158837034.31	593995514.30	893303139.64	687182.71
B)	QUANTITY						
3	Quantity of Coal supplied by Coal Company	(MT)	131644.31	0.00	31888.59	65223.80	1758.34
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	131644.31	0.00	31888.59	65223.80	1758.34
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1053.15	0.00	255.11	130.45	0.00
7	Net Coal Supplied (5-6)	(MT)	130591.16	0.00	31633.48	65093.35	1758.34
C)	PRICE						
8	Amount charged by the Coal Company	(Rs.)	391,385,107.48	0.00	68790585.07	931039880.00	13201623.74
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	69769599.30	0.00	16900496.10	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	461154706.78	0.00	85691081.17	931039880.00	13201623.74
D)	TRANSPORTATION						
12	Transportation charges by rail/ship/road transport	(Rs.)	234098632.97	0.00	57884398.81	0.00	1785456.46
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	264827.07		105555.93		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	233833805.90	0.00	57778842.88	0.00	1785456.46
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	694988512.68	0.00	143469924.05	931039880.00	14987080.20
E)	TOTAL COST						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	5131.09	5389.92	4641.73	14264.74	8528.82
19	Blending Ratio (Domestic/Imported)		54.145%	13.770%	13.648%	17.517%	0.920%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	6731.20				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		6714.50				
F)	QUALITY ( Stage - I, II, III, & IV)						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	3999.00	4910.00	5058.00		3884.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4350.00	0.00	4739.00		3820.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5108.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4949.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4578				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4585				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3450.00	3473.00	3899.00		3884.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3767.00	0.00	3647.00		3820.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5108.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4949.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3915				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3915				

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**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:

NTPC Limited

Name of the Generating Station

Khargone

Stage-1

S. No.	Month	Unit	Jul-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A)</b>	<b>OPENING QUANTITY</b>						
1	Opening Quantity of Coal	(MT)	67868.00	1969.25	131621.21	92907.01	0.00
2	Value of Stock	(Rs.)	348236517.71	10614114.17	610950386.89	1325294041.05	0.00
<b>B)</b>	<b>QUANTITY</b>						
3	Quantity of Coal supplied by Coal Company	(MT)	146482.49	0.00	31242.59	19342.20	202.34
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	146482.49	0.00	31242.59	19342.20	202.34
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1171.86	0.00	249.94	38.68	0.00
7	Net Coal Supplied (5-6)	(MT)	145310.63	0.00	30992.65	19303.52	202.34
<b>C)</b>	<b>PRICE</b>						
8	Amount charged by the Coal Company	(Rs.)	391,442,421.50	0.00	70489121.00	276421185.01	1259901.47
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	-53575000.00	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	4145107.10	0.00	884091.21	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	395587528.60	0.00	71373212.21	222846185.01	1259901.47
<b>D)</b>	<b>TRANSPORTATION</b>						
12	Transportation charges by rail/ship/road transport	(Rs.)	294975426.75	0.00	58549128.00	0.00	129634.03
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	0.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	294975426.75	0.00	58549128.00	0.00	129634.03
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	690562955.35	0.00	129922340.21	222846185.01	1389535.50
<b>E)</b>	<b>TOTAL COST</b>						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4872.91	5389.92	4556.02	13796.75	6867.33
19	Blending Ratio (Domestic/Imported)		63.369%	0.000%	21.641%	14.894%	0.097%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	6135.36				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		6134.65				
<b>F)</b>	<b>QUALITY ( Stage - I, II, III, &amp; IV )</b>						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4259.00	4910.00	4994.00		0.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4015.00	0.00	4845.00		3754.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5027.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				5001.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4419				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4419				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3685.00	3473.00	3849.00		3823.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3284.00	0.00	3870.00		3754.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5027.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				5001.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3748				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3747				

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**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:

NTPC Limited

Name of the Generating Station

Khargone

Stage-1

S. No.	Month	Unit	Aug-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A) OPENING QUANTITY</b>							
1	Opening Quantity of Coal	(MT)	80783.47	1969.25	117399.86	81093.12	0.00
2	Value of Stock	(Rs.)	393650303.52	10614114.17	534876631.21	1118821321.41	0.00
<b>B) QUANTITY</b>							
3	Quantity of Coal supplied by Coal Company	(MT)	190697.27	7684.96	42863.18	0.00	1514.03
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	-240.16	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	190697.27	7444.80	42863.18	0.00	1514.03
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1525.58	61.48	342.91	0.00	0.00
7	Net Coal Supplied (5-6)	(MT)	189171.69	7383.32	42520.27	0.00	1514.03
<b>C) PRICE</b>							
8	Amount charged by the Coal Company	(Rs.)	467,315,836.88	40809574.05	99527567.58	0.00	11367343.31
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	78576532.92	3166576.60	17661711.02	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	545892369.80	43976150.65	117189278.60	0.00	11367343.31
<b>D) TRANSPORTATION</b>							
12	Transportation charges by rail/ship/road transport	(Rs.)	388603670.38	1874402.00	81293422.80	0.00	1925797.71
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	0.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	388603670.38	1874402.00	81293422.80	0.00	1925797.71
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	934496040.18	45850552.65	198482701.40	0.00	13293141.02
<b>E) TOTAL COST</b>							
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4919.88	6037.34	4585.78	13796.75	8779.97
19	Blending Ratio (Domestic/Imported)		59.296%	1.604%	23.013%	15.880%	0.206%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	6278.55				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		6273.39				
<b>F) QUALITY ( Stage - I, II, III, &amp; IV )</b>							
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4093.00	4910.00	4966.00		0.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4122.00	4986.00	4907.00		3807.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5022.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				0.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4462				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4463				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3412.00	3473.00	3853.00		0.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3407.00	3345.00	3870.00		3807.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5022.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				0.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3769				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3768				

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**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:  
Name of the Generating Station

NTPC Limited  
Khargone

Stage-1

S. No.	Month	Unit	Sep-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A)</b>	<b>OPENING QUANTITY</b>						
1	Opening Quantity of Coal	(MT)	6589.51	2227.57	57706.14	10559.72	600.07
2	Value of Stock	(Rs.)	32419476.32	13448608.92	264627952.71	145689824.90	5268597.80
<b>B)</b>	<b>QUANTITY</b>						
3	Quantity of Coal supplied by Coal Company	(MT)	215101.50	113719.66	69413.97	7972.60	1882.98
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	-5046.59	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	215101.50	108673.07	69413.97	7972.60	1882.98
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	1720.81	909.76	555.31	15.95	0.00
7	Net Coal Supplied (5-6)	(MT)	213380.69	107763.31	68858.66	7956.65	1882.98
<b>C)</b>	<b>PRICE</b>						
8	Amount charged by the Coal Company	(Rs.)	611,772,731.48	285030909.88	155664429.08	95889670.99	14137421.35
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	-12650291.53	0.00	-24005340.98	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	101603303.96	60728347.73	32787724.37	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	713376035.44	333108966.08	188452153.45	71884330.01	14137421.35
<b>D)</b>	<b>TRANSPORTATION</b>						
12	Transportation charges by rail/ship/road transport	(Rs.)	391232269.59	299800553.00	127796477.81	0.00	1817445.59
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	903585.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	390328684.59	299800553.00	127796477.81	0.00	1817445.59
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	1103704720.03	632909519.08	316248631.26	71884330.01	15954866.94
<b>E)</b>	<b>TOTAL COST</b>						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	5164.90	5876.47	4589.56	11750.36	8547.34
19	Blending Ratio (Domestic/Imported)		41.309%	26.408%	27.296%	4.528%	0.459%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	5509.47				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		5495.45				
<b>F)</b>	<b>QUALITY ( Stage - I, II, III, &amp; IV )</b>						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4055.00	4751.00	4715.00		3814.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4281.00	4751.00	4596.00		3793.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				5045.00	
24	GCV of Imported Coal supplied as per bill of Coal Company	(kCal/Kg)				4900.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4533				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4536				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3436.00	3371.00	3828.24		3814.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3578.00	3587.00	3624.00		3793.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				5045.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4900.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3681				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3680				

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**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:		NTPC Limited		Stage-1			
Name of the Generating Station		Khargone					
S. No.	Month	Unit	Oct-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
A)	OPENING QUANTITY						
1	Opening Quantity of Coal	(MT)	50635.00	1736.88	14671.81	0.00	650.07
2	Value of Stock	(Rs.)	261524652.53	10206747.15	67337129.10	0.00	5556367.26
B)	QUANTITY						
3	Quantity of Coal supplied by Coal Company	(MT)	410114.64	8022.51	51307.87	63612.40	2536.36
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	410114.64	8022.51	51307.87	63612.40	2536.36
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	3280.92	64.18	410.46	127.22	0.00
7	Net Coal Supplied (5-6)	(MT)	406833.72	7958.33	50897.41	63485.18	2536.36
C)	PRICE						
8	Amount charged by the Coal Company	(Rs.)	1,207,727,432.74	16965201.90	117475919.07	785319191.24	19043001.01
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	-18540932.00	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	48599491.50	950685.18	6080096.02	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	1256326924.24	17915887.08	123556015.09	766778259.24	19043001.01
D)	TRANSPORTATION						
12	Transportation charges by rail/ship/road transport	(Rs.)	703792944.98	19303442.66	92496411.69	0.00	2855005.16
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	0.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	703792944.98	19303442.66	92496411.69	0.00	2855005.16
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	1960119869.22	37219329.74	216052426.78	766778259.24	21898006.17
E)	TOTAL COST						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4856.39	4891.70	4321.99	12078.07	8616.03
19	Blending Ratio (Domestic/Imported)		82.506%	1.450%	5.807%	9.628%	0.608%
20	Weighted average cost of Coal/ Lignite (Including Biomass)		Rs./MT	5544.04			
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)			5525.25			
F)	QUALITY ( Stage - I, II, III, & IV )						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4274.00	4751.00	4650.00		3798.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4278.00	4751.00	4583.00		3859.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				4982.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4911.00	
25	Weighted average GCV of coal as billed (Including Biomass)		(kCal/Kg)	4362			
25a	Weighted average GCV of coal as billed (Excluding Biomass)		(kCal/Kg)	4365			
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3574.00	3582.00	3717.00		3798.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3562.00	3521.00	3900.00		3859.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4982.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4911.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)		(kCal/Kg)	3712			
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)		(kCal/Kg)	3711			

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**FORM- 15 : Details of Fuel for Computation of Energy Charges**

Name of the Petitioner:

NTPC Limited

Name of the Generating Station

Khargone

Stage-1

S. No.	Month	Unit	Nov-23				
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N
<b>A) OPENING QUANTITY</b>							
1	Opening Quantity of Coal	(MT)	29172.61	2167.21	35424.21	13504.68	30.09
2	Value of Stock	(Rs.)	141673437.32	10601360.40	153103096.28	163110384.57	259256.31
<b>B) QUANTITY</b>							
3	Quantity of Coal supplied by Coal Company	(MT)	449857.00	0.00	23573.84	31777.20	1701.43
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal Company (3+4)	(MT)	449857.00	0.00	23573.84	31777.20	1701.43
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	3598.86	0.00	188.59	63.55	0.00
7	Net Coal Supplied (5-6)	(MT)	446258.14	0.00	23385.25	31713.65	1701.43
<b>C) PRICE</b>							
8	Amount charged by the Coal Company	(Rs.)	1,271,911,019.06	24461505.10	53508405.27	404521295.34	12774343.24
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	-33365965.91	0.00
10	Handling, Sampling and such other similar charges	(Rs.)	82900168.67	0.00	4344203.63	0.00	0.00
11	Total amount Charged (8+9+10)	(Rs.)	1354811187.73	24461505.10	57852608.90	371155329.43	12774343.24
<b>D) TRANSPORTATION</b>							
12	Transportation charges by rail/ship/road transport	(Rs.)	862026117.07	-19303442.66	44800739.68	0.00	1914599.32
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)					
14	Demurrage Charges, if any	(Rs.)	0.00		0.00		
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00
16	Total Transportation Charges (12+13+14+15)	(Rs.)	862026117.07	-19303442.66	44800739.68	0.00	1914599.32
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	2216837304.80	5158062.44	102653348.58	371155329.43	14688942.56
<b>E) TOTAL COST</b>							
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4960.79	7271.74	4348.90	11815.25	8632.99
19	Blending Ratio (Domestic/Imported)		75.366%	0.000%	13.911%	10.323%	0.399%
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	5597.93				
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		5585.76				
<b>F) QUALITY ( Stage - I, II, III, &amp; IV )</b>							
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4278.00	4751.00	4597.00		3846.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4086.00	0.00	4522.00		3851.00
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				4911.00	
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4981.00	
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4251				
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4253				
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3563.00	3531.93	3861.35		3846.00
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3553.00	0.00	3556.00		3851.00
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4911.00	
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4981.00	
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3728				
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3727				

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## FORM- 15 : Details of Fuel for Computation of Energy Charges

Name of the Petitioner:  
Name of the Generating Station:

NTPC Limited  
Khargone

### Stage-1

Name of the Generating Station		Adalgone		Stage-1				
S. No.	Month	Unit	Dec-23					
			Domestic (Other Sources)	Domestic (NTPC Mines)	Special Coal	Imported	Biomass	
			M1149100657	M1149100620	M1149100648	M1149100666	M1149102501N	
A)	OPENING QUANTITY							
1	Opening Quantity of Coal	(MT)	154285.43	2167.21	0.00	1229.82	30.04	
2	Value of Stock	(Rs.)	765377182.60	15759422.84	0.00	14530638.82	259335.09	
B)	QUANTITY							
3	Quantity of Coal supplied by Coal Company	(MT)	509662.30	7642.36	26477.50	52388.60	1765.71	
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	0.00	0.00	0.00	0.00	0.00	
5	Coal supplied by Coal Company (3+4)	(MT)	509662.30	7642.36	26477.50	52388.60	1765.71	
6	Normative Transit & Handling Losses (For Coal based Projects)	(MT)	4077.30	61.14	211.82	104.78	0.00	
7	Net Coal Supplied (5-6)	(MT)	505585.00	7581.22	26265.68	52283.82	1765.71	
C)	PRICE							
8	Amount charged by the Coal Company	(Rs.)	1,627,407,369.11	35752579.00	61916830.00	674010441.42	13256957.72	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	0.00	0.00	0.00	0.00	0.00	
10	Handling, Sampling and such other similar charges	(Rs.)	160304027.60	2403750.66	8327965.19	0.00	0.00	
11	Total amount Charged (8+9+10)	(Rs.)	1787711396.71	38156329.66	70244795.19	674010441.42	13256957.72	
D)	TRANSPORTATION							
12	Transportation charges by rail/ship/road transport	(Rs.)	898650650.23	3914361.00	47899314.99	0.00	1949434.46	
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)						
14	Demurrage Charges, if any	(Rs.)	916245.00		0.00			
15	Cost of diesel in transporting Coal through MGR system, if applicable	(Rs.)	0.00	0.00	0.00	0.00	0.00	
16	Total Transportation Charges (12+13+14+15)	(Rs.)	897734405.23	3914361.00	47899314.99	0.00	1949434.46	
17	Total amount Charged for Coal supplied including Transportation (11+16)	(Rs.)	2685445801.94	42070690.66	118144110.18	674010441.42	15206392.18	
E)	TOTAL COST							
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	5229.55	5932.25	4498.04	12866.65	8612.41	
19	Blending Ratio (Domestic/Imported)		81.559%	1.719%	6.102%	10.194%	0.426%	
20	Weighted average cost of Coal/ Lignite (Including Biomass)	Rs./MT	5989.91					
20a	Weighted average cost of Coal/ Lignite (Excluding Biomass)		5978.69					
F)	QUALITY ( Stage - I, II, III, & IV)							
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	(kCal/Kg)	4096.00	4751.00	4569.00		3851.00	
22	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	3930.00	4751.00	4412.00		3827.00	
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(kCal/Kg)				4961.36		
24	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)				4990.00		
25	Weighted average GCV of coal as billed (Including Biomass)	(kCal/Kg)	4113					
25a	Weighted average GCV of coal as billed (Excluding Biomass)	(kCal/Kg)	4114					
26	GCV of Domestic Coal of the opening stock as received at Station	(kCal/Kg)	3553.55	3531.93	3747.46		3851.00	
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	(kCal/Kg)	3218.00	3760.00	3627.00		3827.00	
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)				4961.36		
29	GCV of Imported Coal supplied as received at Station	(kCal/Kg)				4990.00		
30	Weighted average GCV of coal/ Lignite as received (Including Biomass)	(kCal/Kg)	3499					
30a	Weighted average GCV of coal/ Lignite as received (Excluding Biomass)	(kCal/Kg)	3497					

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## Details of Sourcewise fuel for computation of Energy Charges

Company		NTPC Limited					
Name of the generating Station		KHARGONE STPP-STAGE 01					
Month		January-2024					
SL	Particulars	Unit	COAL DOMESTIC (NTPC MINES)	FUEL-SOLID: SPECIAL ARRANGEMENT COAL	COAL-DOMESTIC	COAL - IMPORTED	FUEL-SOLID:BIOMASS PELLETS
A)	OPENING QUANTITY						
1	Opening Stock of coal	MT	2623.44	976.68	321850.80	11265.64	30.11
2	Value of Stock	Rs.	15562861.03	4393151.04	1683580434.12	144951053.56	259319.53
B)	QUANTITY						
3	Quantity of Coal /Lignite supplied by Coal / Lignite Company	MT	4037.54	15438.01	503488.94	68651.00	876.52
3.01	- Qty Received (Pit Head)	MT	0.00	0.00	0.00	68651.00	876.52
3.02	- Qty Received (Non Pit Head)	MT	4037.54	15438.01	503488.94	0.00	0.00
4	Adjustment (+/-) In quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	4037.54	15438.01	503488.94	68651.00	876.52
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	32.30	123.50	4027.91	137.30	0.00
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00	137.30	0.00
6.02	- Normative Loss (Non Pit Head)	MT	32.30	123.50	4027.91	0.00	0.00
7	Net Coal / Lignite supplied (5 - 6)	MT	4005.24	15314.51	499461.03	68513.70	876.52
C)	PRICE						
8	Amount charged by the Coal / Lignite Company	Rs.	19526287.00	34286758.36	1824453248.57	899805904.33	6580915.65
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	621324.99	2375710.95	77480458.59	0.18-	0.00
11	Total Amount charged (8 +9+10)	Rs.	20147611.99	36662469.31	1901933707.16	899805904.15	6580915.65
D)	TRANSPORTATION						
12	Transportation charges by Rail / Ship / Road Transport	Rs.	1477476.00	30427934.32	805759363.39	0.00	802105.96
13	Adjustment (+/-) in amount charged by railways / transport company	Rs.	0.00	0.00	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	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	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	1477476.00	30427934.32	805759363.39	0.00	802105.96
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	21625087.99	67090403.63	2707693070.55	899805904.15	7383021.61
E)	TOTAL COST						
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	5610.16	4387.87	5346.66	13095.58	8429.39
19	Blending Ratio (Domestic/Imported)	%	1.18	3.13	83.05	12.45	0.19
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	6290.36				
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	6286.37	6286.37	6286.37	6286.37	0.00
F)	QUALITY						
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	4751	4425	3968	0	3827
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	4751	4486	4087	0	3705
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0	4990	0
24	GCV of Imported coal supplied as per bill of coal company	kCal/Kg	0	0	0	4950	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	4176				
25.10	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	4177	4177	4177	4177	0
26	GCV of Domestic coal of the Opening stock as received at station	kCal/Kg	3709	3637	3295	0	3827
27	GCV of Domestic coal/biomass supplied as received at station	kCal/Kg	3795	3411	3158	0	3705
28	GCV of Imported coal of the Opening stock as received at station	kCal/Kg	0	0	0	4990	0
29	GCV of Imported coal supplied as received at station	kCal/Kg	0	0	0	4950	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3443				
30.10	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3442	3442	3442	3442	0

Submitted On :22.04.2024

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## Details of Sourcewise fuel for computation of Energy Charges

Company		NTPC Limited					
Name of the generating Station		KHARGONE STPP-STAGE 01					
Month		February-2024					
SL	Particulars	Unit	COAL DOMESTIC (NTPC MINES)	FUEL-SOLID: SPECIAL ARRANGEMENT COAL	COAL-DOMESTIC	COAL - IMPORTED	FUEL-SOLID:BIOMASS PELLETS
A)	OPENING QUANTITY						
1	Opening Stock of coal	MT	869.68	996.19	415389.65	18922.94	0.00
2	Value of Stock	Rs.	4879020.30	4371128.91	2220946487.06	247806920.43	0.00
B)	QUANTITY						
3	Quantity of Coal /Lignite supplied by Coal / Lignite Company	MT	0.00	4017.57	497993.93	60324.00	1365.85
3.01	- Qty Received (Pit Head)	MT	0.00	0.00	0.00	60324.00	1365.85
3.02	- Qty Received (Non Pit Head)	MT	0.00	4017.57	497993.93	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Coal / Lignite Company	MT	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	0.00	4017.57	497993.93	60324.00	1365.85
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	0.00	32.14	3983.95	120.65	0.00
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00	120.65	0.00
6.02	- Normative Loss (Non Pit Head)	MT	0.00	32.14	3983.95	0.00	0.00
7	Net Coal / Lignite supplied (5 - 6)	MT	0.00	3985.43	494009.98	60203.35	1365.85
C)	PRICE						
8	Amount charged by the Coal / Lignite Company	Rs.	0.00	7820802.64	1832842296.43	762707529.30	10254807.25
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	0.00	1365504.53	169259771.64	0.18-	0.00
11	Total Amount charged (8 +9+10)	Rs.	0.00	9186307.17	2002102068.07	762707529.12	10254807.25
D)	TRANSPORTATION						
12	Transportation charges by Rail / Ship / Road Transport	Rs.	0.00	6784068.70	665987891.17	0.00	1376456.10
13	Adjustment (+/-) in amount charged by railways / transport company	Rs.	0.00	0.00	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	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	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	0.00	6784068.70	665987891.17	0.00	1376456.10
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	0.00	15970375.87	2668089959.24	762707529.12	11631263.35
E)	TOTAL COST						
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	5610.13	4083.31	5376.11	13023.67	8515.77
19	Blending Ratio (Domestic/Imported)	%	0.00	0.99	80.16	18.52	0.34
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	6789.93				
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	6784.09	6784.09	6784.09	6784.09	0.00
F)	QUALITY						
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	4751	4482	4040	0	0
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	0	4451	4136	0	3701
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0	4956	0
24	GCV of Imported coal supplied as per bill of coal company	kCal/Kg	0	0	0	5100	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	4275				
25.10	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	4277	4277	4277	4277	0
26	GCV of Domestic coal of the Opening stock as received at station	kCal/Kg	3761	3425	3212	0	0
27	GCV of Domestic coal/biomass supplied as received at station	kCal/Kg	0	2880	3235	0	3701
28	GCV of Imported coal of the Opening stock as received at station	kCal/Kg	0	0	0	4956	0
29	GCV of Imported coal supplied as received at station	kCal/Kg	0	0	0	5100	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3565				
30.10	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3564	3564	3564	3564	0

Submitted On :22.04.2024

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## Details of Sourcewise fuel for computation of Energy Charges

Company		NTPC Limited					
Name of the generating Station		KHARGONE STPP-STAGE 01					
Month		March-2024					
SL	Particulars	Unit	COAL DOMESTIC (NTPC MINES)	FUEL-SOLID: SPECIAL ARRANGEMENT COAL	COAL-DOMESTIC	COAL - IMPORTED	FUEL:SOLID:BIOMASS PELLETS
A)	OPENING QUANTITY						
1	Opening Stock of coal	MT	869.68	968.62	584825.78	4147.99	0.00
2	Value of Stock	Rs.	4879020.30	3955161.69	3144090427.28	54022113.10	0.26
B)	QUANTITY						
3	Quantity of Coal /Lignite supplied by Coal / Lignite Company	MT	11930.60	3850.47	316084.26	24104.80	2333.23
3.01	- Qty Received (Pit Head)	MT	0.00	0.00	0.00	24104.80	2333.23
3.02	- Qty Received (Non Pit Head)	MT	11930.60	3850.47	316084.26	0.00	0.00
4	Adjustment (+/-) In quantity supplied made by Coal / Lignite Company	MT	136.35-	0.00	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite Company (3+4)	MT	11794.25	3850.47	316084.26	24104.80	2333.23
6	Normative transit & Handling losses (for Coal /Lignite based projects)	MT	94.35	30.80	2528.67	48.21	0.00
6.01	- Normative Loss (Pit Head)	MT	0.00	0.00	0.00	48.21	0.00
6.02	- Normative Loss (Non Pit Head)	MT	94.35	30.80	2528.67	0.00	0.00
7	Net Coal / Lignite supplied (5 - 6)	MT	11699.90	3819.67	313555.59	24056.59	2333.23
C)	PRICE						
8	Amount charged by the Coal / Lignite Company	Rs.	49622971.43	10867242.00	979248362.00	306942130.37	17517900.05
9	Adjustment (+ / -) in amount charged by coal / Lignite Company	Rs.	343286.57-	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other Similar charges	Rs.	8003708.38	2583108.90	212046898.62	0.09-	3257725.19
11	Total Amount charged (8 +9+10)	Rs.	57283393.24	13450350.90	1191295260.62	306942130.28	20775625.24
D)	TRANSPORTATION						
12	Transportation charges by Rail / Ship / Road Transport	Rs.	12117612.00	7415981.00	466682601.44	0.00	500445.28-
13	Adjustment (+/-) in amount charged by railways / transport company	Rs.	0.00	0.00	0.00	0.00	0.00
14	Demurrage charges, if any	Rs.	0.00	0.00	1155791.00	0.00	0.00
15	Cost of diesel in transporting Coal through MGR system, if applicable	Rs.	0.00	0.00	0.00	0.00	0.00
16	Total transportation charges ( 12+/- 13 - 14 + 15 )	Rs.	12117612.00	7415981.00	465526810.44	0.00	500445.28-
17	Total amount charged for Coal / Lignite supplied including transportation (11 + 16)	Rs.	69401005.24	20866331.90	1656822071.06	306942130.28	20275179.96
E)	TOTAL COST						
18	Landed Cost of Coal/Lignite ( 2+17) / (1+7)	Rs./MT	5909.51	5183.79	5343.96	12798.07	8689.75
19	Blending Ratio (Domestic/Imported)	%	1.96	0.89	93.39	3.24	0.52
20	Weighted average cost of Coal /Lignite ( Including biomass)	Rs./MT	5612.40				
20.10	Weighted average cost of Coal /Lignite ( Excluding biomass)	Rs./MT	5596.34	5596.34	5596.34	5596.34	0.00
F)	QUALITY						
21	GCV of Domestic coal of the opening coal stock as per bill of coal company	kCal/Kg	4751	4457	4092	0	0
22	GCV of Domestic coal supplied as per bill of coal company	kCal/Kg	4751	5051	4103	0	3788
23	GCV of Imported coal of the opening coal stock as per bill of coal company	kCal/Kg	0	0	0	5065	0
24	GCV of Imported coal supplied as per bill of coal company	kCal/Kg	0	0	0	4970	0
25	Weighted average GCV of Coal /Lignite as billed (Including biomass)	kCal/Kg	4143				
25.10	Weighted average GCV of Coal /Lignite as billed (Excluding biomass)	kCal/Kg	4145	4145	4145	4145	0
26	GCV of Domestic coal of the Opening stock as received at station	kCal/Kg	3761	2989	3224	0	0
27	GCV of Domestic coal/biomass supplied as received at station	kCal/Kg	3756	3811	3353	0	3788
28	GCV of Imported coal of the Opening stock as received at station	kCal/Kg	0	0	0	5065	0
29	GCV of Imported coal supplied as received at station	kCal/Kg	0	0	0	4970	0
30	Weighted average GCV of coal/ Lignite as Received (Including biomass)	kCal/Kg	3341				
30.10	Weighted average GCV of coal/ Lignite as Received (Excluding biomass)	kCal/Kg	3338	3338	3338	3338	0

Submitted On :22.04.2024

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