

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO ___ of ___

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 **Vallur Thermal power Station (3x500 MW)** for the period **from 01.04.2024 to 31.03.2029.**

IN THE MATTER OF: -

Approval of Supplementary Tariff for Emission Control System for the Tariff period 2024-29

NTECL (NTPC Tamil Nadu Energy Company Limited)
NTPC Bhawan, Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003

..... Petitioner

Vs

Chairman & Managing Director
APEPDCL (A.P. Eastern Power Distribution Company
Ltd.)
P&T Colony, Seethammadhara,
Vishakapatnam-503013 and others

.....Respondent(s)

Place:


Petitioner
K. YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103

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AND IN THE MATTER OF: -

Approval of Supplementary Tariff for Emission Control System for the Tariff period 2024-29

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NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station

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Executive Summary of the Petition (Summary of Issues)

Vallur Thermal Power Station (3x500 MW)

(In compliance with CERC notice dated 07.06.2024)

The major highlights of the Vallur TPS (1500 MW) Tariff petition are as follows:-

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-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for revision of tariff of Vallur Thermal Power Station (1500 MW) (hereinafter referred to as **Vallur**) for the period from 01.04.2024 to 31.03.2029 based on actual expenditures as on 31.03.2024 and projections from 01.04.2024 to 31.03.2029.

Vallur is located near Chennai, in the State of Tamil Nadu and comprises of three units of 500 MW each with their respective COD's as 29.11.2012, 25.08.2013 & 26.02.2015. The power generated from Vallur is being supplied to discoms of Southern Region (Andhra Presh, Karnataka, Kerala, Tamil Nadu, Telangana & Puducherry) as per MoP allocation and respective PPAs.

The Trued up tariff of Vallur for the tariff period 2019-24 after the truing up exercise based on actual expenditures as on 31.03.2024 is filed by petitioner through a separate petition which is yet to be decided by Hon'ble CERC.

Additional Capital Expenditure: The projected Additional Capital Expenditure for the FY 2024-25, 2025-26, 2026-27, 2027-28 and 2028-29 are Rs 35.97 cr, Rs 45.25 cr, Rs 42.42 cr, Rs 62.54 cr and Rs 110.01 cr respectively amounting to total of Rs 296.21 crores during the 2024-29 period. The same has been depicted year wise in Form 9A of the Appendix-I along with applicable regulations and justification for the claims. It is humbly requested to approve the actual Additional Capital expenditure during the period of 2024-29.

O&M Expenses: Hon'ble Commission may please allow the claims of security expenses, ash transportation charges and Additional O&M for desalination plant for the instant station as projected by the Petitioner in Form 3A of Appendix-I. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up based on actual consumption of spares during the period 2024-29.

Auxiliary Power Consumption (APC): It is humbly submitted that Vallur is having the additional distinct features like cross-country pipe conveyor system, Grab unloaders



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at jetty and desalination plant which requires additional power requirements of about 6 MW, 2.84 MW and 5.25 MW. Thus, the total additional power requirement is about 14.09 MW which converts to 0.94 % of installed capacity (1500 MW). Hence, in view of the details above, it is humbly prayed that an additional APC of 0.94% may be allowed to Vallur for the above reasons under the Regulation 102 (Power to Relax) & Regulation 103 (Power to Remove Difficulty) of the CERC Tariff Regulations, 2024. The Hon'ble Commission in during the 2014-19 has allowed the similar relaxation and allowed 0.94% additional APC over and above normative APC.

Supplementary Tariff of Emission Control Systems (ECS): The following schemes of Emission Control Systems (ECS) is being installed in the present station:

1.1. Combustion Modification for NOx Control: Combustion Modification System of Emission Control System (ECS) of unit-1, unit-2 & unit-3 has been commissioned on 23.02.2021, 16.10.2021 & 12.09.2022 respectively.

1.2. Wet Lime Based Flue Gas Desulphurization (FGD) for SO2 control: The FGDs of Vallur is anticipated to be commissioned on 01.01.2025, 01.04.2025 & 01.07.2025.

The Petitioner is also submitted **Appendix-IA** for approval of supplementary tariff of Emission Control System (ECS) on projection basis. The petitioner would be filing amended details for supplementary tariff of Emission Control System (ECS) based on audited account on COD of FGD within 90 days of COD of FGD as per extant Tariff Regulations as and when FGD of any unit is declared commercial.


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NEW DELHI

PETITION NO.....

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AND
IN THE MATTER OF Approval of Supplementary Tariff for Emission Control System for the Tariff period 2024-29

Petitioner: : NTECL (NTPC Tamil Nadu Energy Company Limited)
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003.

Respondents 1. Chairman & Managing Director
APEPDCL (A.P. Eastern Power Distribution Company Ltd.)
P&T Colony, Seethammadhara,
Vishakapatnam-503013



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Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

2. Chairman & Managing Director
APSPDCL (A.P. Southern Power Distribution Company Ltd)
Beside Srinivassakalyana Mandapam,
Tiruchanur Road, Kesavayana Gunta,
Tirupati- 517501
3. Chairman & Managing Director
APCPDCL (A.P. Central Power Distribution Company Ltd)
Corporate Office, Beside Govt. Polytechnic, ITI Road,
VIJAYAWADA, Andhra Pradesh
4. Chairman & Managing Director
TSSPDCL (Telangana State Southern Power
Distribution Company Ltd)
Mint Compound, Corporate Office
Hyderabad – 500 063
5. Chairman & Managing Director
TSNPDCL (Telangana Northern Power Distribution
Company Ltd)
H.No. 2-5-31/2, Vidyut Bhavan
Nakkalagutta, Hanamkonda
Warangal – 506 001
6. Tamil Nadu Generation & Distribution Corporation
Ltd. (TANGEDCO) (formerly TNEB)
144, Anna Salai
Chennai – 600 002
7. Bangalore Electricity Supply Company Ltd.
(BESCOM)
Krishna Rajendra Circle
Bangalore - 560 009



8. Mangalore Electricity Supply Company Ltd
(MESCOM)
MESCOM bhavana,
Corporate Office,
Bejai, kavoor cross road, mangaluru,
575004, Karnataka
9. CESC (Chamundeshwari Electricity Supply Corp.
Ltd.)
Corporate Office, No. 29,
Vijayanagar, 2nd stage, Hinkal,
Mysore – 570 017
10. Gulbarga Electricity Supply Company Ltd.
(GESCOM)
Main road, Gulbarga, Karnataka.
Gulbarga – 585 102
11. Hubli Electricity Supply Company Ltd. (HESCOM)
Corporate office, P.B.Road, Navanagar
Hubli – 580 025
12. Kerala State Electricity Board Ltd.(KSEBL)
Vaidyuthi Bhavanam, Pattom
Thiruvananthapuram – 695 004
13. Superintending Engineer-1
Electricity department
Govt. of Puducherry,
137, Netaji Subhash Chandra Bose Salai,
Puducherry- 605001

(PW)

The Petitioner humbly states that:

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1. The Petitioner herein NTPC Tamil Nadu Energy Company Limited (hereinafter referred to as '**Petitioner**' or '**NTECL**'), 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, it 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 Generating Companies owned or controlled by the Central Government. The regulation of the tariff of NTECL 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 a Thermal Power Station named 'Vallur Thermal Power Station' (3x500 MW) (hereinafter referred to as '**Vallur**') located near Chennai, in the State of Tamil Nadu. This station consists of three units of 500 MW each with their respective COD's as 29.11.2012, 25.08.2013 & 26.02.2015. The power generated from Vallur is being supplied to the respondents herein mentioned above.
4. The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2024 (hereinafter referred to as '**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


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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 Vallur for the period from 01.04.2024 to 31.03.2029 as per the Tariff Regulations 2024.

6. The tariff of the Vallur for the tariff period 1.4.2019 to 31.3.2024 was determined by the Hon'ble Commission vide its order dated 30.05.2023 in Petition No. 411/GT/2020 (and review order dtd 17.05.2024 in Petition No. 27/RP/2023 in 411/GT/2020) in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2019. The petitioner vide affidavit dated 27.11.24 had filed a separate true up petition for the period 01.04.2019 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 30.05.2023 in Petition No. 411/GT/2020 (and review order dtd 17.05.2024 in Petition No. 27/RP/2023 in 411/GT/2020) has allowed a capital cost of Rs 9384.82 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. 9595.35 Cr based on the actual expenditure after truing up exercise for the period 2019-24. Accordingly, the opening capital cost as on 01.04.2024 has been considered as Rs 9595.35 Cr in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this 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 and Regulation 24, 25 and 26 of the Tariff Regulations, 2024.
9. The Petitioner further respectfully submits that as per Regulation 36(1)(6) of the Tariff Regulations 2024, the water charges, security expenses, ash transportation

(KW)

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expenses and capital spares consumed for thermal generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption have been furnished below. The petitioner at present is not paying any water charges and therefore the same have not been claimed in this petition. However, the petitioner shall be furnishing the details of actual paid, if any, at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Coal based station
Type of cooling water system	IDCT
Consumption of Water	Sea Water intake
Rate of Water charges	Not Applicable
Total Water Charges	Not Applicable

10. Similarly, there is no ash transportation charges as of now. However, the petitioner shall be furnishing the details of actual paid, if any, at the time of truing up and the same shall be subject to retrospective adjustment. To avoid the interest payment liability of the beneficiaries in case of any ash transportation charges in future, it is prayed that the petitioner may be allowed to recover/ pass on the ash transportation charges (if any) on a monthly basis subject to true-up at the end of the 2024-29 period.
11. The Petitioner is claiming the security expenses based on the estimated expenses for the period 2024-29, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 36(1)(6) based on actual consumption of spares during the period 2024-29.
12. Further, it is submitted that Hon'ble Commission vide tariff order dated 30.05.2023 (at Para 72) in tariff petition 411/GT/2020 for the tariff period 2019-24 of the stations has allowed additional O&M Expenses for Desalination Plant subject to the truing up as per actual charges incurred. During the earlier control period also, the


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Hon'ble Commission vide order dated 20.03.2023 (at Para 81) in true up petition 576/GT/2020 for the tariff period 2014-19 of the stations has allowed additional O&M Expenses for Desalination Plant. The same facilities of desalination plant are continued to be in operation during the current tariff period of 2024-29. Therefore, the petitioner has claimed additional O&M Expenses for Desalination Plant in form-3A of appendix-I on projection basis. The hon'ble Commission may be please to allow the same.

13. The present petition is filed on the basis of norms specified in the Tariff Regulations 2024. It is submitted that the petitioner has installed / is in the process of installing the Emission Control Systems (ECS) in compliance of the Revised Emission Standards as notified by MOEF vide notification dated 07.12.2015 as amended. The following schemes of Emission Control Systems (ECS) is being installed in the present station:

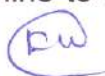
13.1. Combustion Modification for NOx Control: Combustion Modification System of Emission Control System (ECS) of unit-1, unit-2 & unit-3 has been commissioned on 23.02.2021, 16.10.2021 & 12.09.2022 respectively.

13.2. Wet Lime Based Flue Gas Desulphurization (FGD) for SO2 control: The FGD of unit-1, unit-2 & unit-3 of Vallur is anticipated to be declared under commercial operation w.e.f 01.01.2025, 01.04.2025 & 01.07.2025 respectively.

Completion of these schemes in compliance of revised emission norms will affect the Station APC, Heat Rate, O&M expenses etc. The APC of the station is considered including the impact of FGD. In addition, the availability of the unit/ station would be also affected due to shutdown of the units for installation of ECS. The petitioner would be filing the details of the same based on audited account as on commercial operation dates of FGDs (along with revised tariff forms of ECS) in terms of the Regulation 29 of Tariff Regulations 2024.

14. Additional APC for Vallur having Piped Conveyors, Grab unloader at Jetty & Desalination plant:

- i. It is humbly submitted that Vallur Thermal Power Station is having the following additional distinct features which requires additional power:
- ii. **Cross-country pipe conveyor system:** The coal for the station is transported from mine to the sea port by rail/road and by sea to the nearest Ennore port.



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Cross country pipe conveyor system is installed for transporting coal from Ennore port to the Vallur TPS. This additional system in Vallur station requires of about 6.00 MW electrical power for the operation of this cross-country pipe conveyor system.

- iii. **Grab unloader at Jetty:** In Vallur TPS, Coal is unloaded from ships using two numbers of Grab unloader and then transported through conveyors. This Grab unloaders at jetty requires an additional power of about 2.84 MW.
- iv. **Desalination plant:** The water requirement of Vallur TPS is met using sea water only. Therefore, Vallur TPS is designed to use sea water by making sea water usable for the various activities in station as below:
 - a. DM water for process make up & equipment cooling make up through RO conversion
 - b. Service water for different purposes of the plant, and
 - c. Potable water for drinking
- v. The desalination system for desalination of sea water through RO system in the Vallur Station requires an additional power of about 5.25 MW.
- vi. Therefore, the additional power requirement for the above distinct features of Vallur station is about 14.09 MW which converts to 0.94 % of installed capacity (1500 MW).
- vii. In this regard it is respectfully submitted that Hon'ble CERC vide its order dtd 17.05.2024 in 27/RP/2023 in 411/GT/2020 at para-14 has directed to furnish the following information at the time of truing up of tariff of the generating station:
 - a. Actual Auxiliary Power consumption (annual) from COD of the generating station to 31.3.2024 along with PLF and NAPAF;
 - b. APC achieved during PG test of the units, PG test of cross-country conveyor system, grab unloader and desalination plant etc., duly signed and audited.
 - c. The Auxiliary Power consumption of DM plant and make up water system of conventional similar capacity thermal generating stations
- viii. It is submitted that year wise actual auxiliary power consumption (annual) from COD of the generating station to 31.3.2024 along with PLF and NAPAF is as below:


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F.Y	PLF (In %)	On bar Plant Availability Factor (In %)	Loading Factor	Actual APC (In %)	Norma tive APC (In %)	Compensation applicable as per IEGC 4th amendment	Compen- sated APC (In %)	APC Under Recov ery
2014-15	62.70	76.31	82.16	7.17	6.69	0.35	7.04	-0.13
2015-16	58.53	75.93	77.08	7.55	6.69	0.35	7.04	-0.51
2016-17	70.10	84.11	83.34	7.02	6.69	0.35	7.04	0.02
2017-18	54.55	70.46	77.42	7.85	6.69	0.35	7.04	-0.81
2018-19	58.65	75.40	77.79	7.73	6.69	0.35	7.04	-0.69
2019-20	43.07	72.34	59.53	9.05	6.69	1.00	7.69	-1.36
2020-21	33.25	50.45	65.90	9.55	6.69	0.65	7.34	-2.21
2021-22	60.22	87.02	69.21	7.77	6.69	0.65	7.34	-0.43
2022-23	74.50	86.82	85.80	7.03	6.69	0.00	6.69	-0.34
2023-24	50.27	63.43	79.25	7.86	6.69	0.35	7.04	-0.82

- ix. It is submitted that although the APC of the station is increased due to usage of sea water, however it is pertinent to mention that water charges expenses in the present station is zero because of use of sea water. The benefit of zero water charges is directly passed on to beneficiaries of station.
- x. Hence, in view of the details above, it is humbly prayed that an additional APC of 0.94% may be allowed to Vallur for the above reasons under the Regulation 102 (Power to Relax) & Regulation 103 (Power to Remove Difficulty) of the CERC Tariff Regulations, 2024.

15. It is submitted that Hon'ble Commission has prescribed boiler efficiency and turbine heat rate separately for deriving the unit heat rate where the Unit Heat Rate is not guaranteed by the suppliers. It is submitted that the instant station was envisaged during the period 2004-09 (investment approval was accorded in 2007) and equipments including SG and TG specifications for tendering / award was stipulated considering the boiler efficiency and the turbine heat rate prescribed by the Hon'ble Commission in the Tariff Regulations at that time. Based on the same the equipments were ordered through international competitive bidding. It was not possible for the petitioner to specify the efficiency parameters at the time of



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finalizing the contracts on the instant station as per the efficiency parameters specified in Tariff Regulations 2024-29 which are more stringent.

In a similar case, Hon'ble Commission in its order dated 20.02.2014 in Petition No. 160/GT/2012 has considered the design parameters for computing Gross Heat Rate of the station with appropriate operating margin and has stated as under:

Quote

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

Unquote

Further, Hon'ble Commission vide its order dated 21.04.2022 in petition no 362/GT/2020 while determining tariff of Kahalgaon STPS-II of NTPC Limited has relaxed the boiler efficiency for computing Gross Heat Rate of the station with appropriate operating margin. The same is quoted below:

Quote

"157. Accordingly, the Commission considered the SHR of 2425 kCal /kWh as approved for 2009-14 tariff period and in exercise of Power to Relax under Regulation 54 and Power to Remove Difficulty under Regulations 55 of Tariff Regulations, 2014 allowed boiler efficiency of the units of the generating station below 0.85 for the period 2014-19"

Unquote

Further, if the Petitioner had stipulated more stringent unit heat rate this would have increased the capital cost commensurate to the efficiency parameters sought. The benefit of the lower capital cost due to lower efficiency parameters



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has already been passed onto the beneficiaries in terms of lower capital cost. If now the boiler efficiency for working out the normative heat rate is considered as 86% instead of the actual design efficiency of 85%, the unit heat rate would be worked out to be 2347.60 kcal/kwh (with applicable margin) and the operating margin available over the design heat rate would be 3.28% only which is much less than the operating margin of 4.5% allowed in the Tariff Regulations 2024. Moreover, it is submitted that boiler efficiency is largely a function of coal quality. In view of above submission, it is prayed that Gross Station Heat rate may be allowed based on guaranteed turbine cycle heat rate and actual boiler efficiency of 85% with an operating margin of 4.5% from the guaranteed design value. Accordingly, for the computation of tariff attached at Appendix-I, Gross Station Heat Rate of 2375.22 kcal/kwh has been considered in the instant Petition.

- 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.

16.1. 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.



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- 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

16.2. 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.

16.3. 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.

16.4. 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 remains unaffected.

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

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

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



K YADAGIRI

Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.

Vallur Thermal Power Station

P.O.: Vellivoyal Chavadi, Chennai-600 103.

as an additional impact on O&M and allow the same as additional O&M over and above the normative O&M.

18. It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website.
19. 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. The Petitioner is also submitting **Appendix-IA** for approval of supplementary tariff of Emission Control System (ECS) on projection basis. The petitioner craves liberty to file separate petition for supplementary tariff of Emission Control System (ECS) based on audited account as on date of commercial operation declaration (Ode) of FGDs of respective unit after the FGD is commissioned.
20. In accordance with the 'Conduct of Business Regulations 2023' of the Hon'ble Commission, the Petitioner shall 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 along with the prayer for recovery of Publication Expenses as per Regulation-94 of CERC Tariff Regulations 2024.
21. It is submitted that the Petitioner has already paid the requisite filing fee vide Transaction ID: fbb9ebe0c2a4067f20ef 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 letter/email. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Hon'ble Commission may be pleased to take the above into consideration and allow the recovery of


K YADAGIRI
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NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
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filing fee for the instant station as per Regulation-94 of CERC Tariff Regulations 2024.

22. 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 NTECL for determination of capital base as on 31.3.2024 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 Vallur for the tariff period 01.04.2024 to 31.03.2029.
- ii) Allow the supplementary tariff for the tariff period 01.04.2024 to 31.03.2029.
- iii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iv) Allow reimbursement of Ash Transportation Charges (if any in future) directly from the beneficiaries on monthly basis, subject to true up.
- v) Allow reimbursement of additional O&M expenses for desalination plant
- vi) Allow relaxation of station heat rate
- vii) Allow the relaxation in norms for Auxiliary Power Consumption.
- viii) Pass any other order as it may deem fit in the circumstances mentioned above.

Chennai


Petitioner
K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

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 **Vallur Thermal Power Station (3X500 MW)** for the period from 01.04.2024 to 31.03.2029

NTECL (NTPC Tamil Nadu Energy Company Ltd.)

NTPC Bhawan

Core-7, Scope Complex

..... Petitioner

7, Institutional Area, Lodhi Road

New Delhi-110 003

Vs

Chairman & Managing Director

APEPDCL (A.P. Eastern Power Distribution

Company Ltd.)

.... Respondent (s)

P&T Colony, Seethammadhara,

Vishakapatnam-503013

And Others

AFFIDAVIT

I, Kurukondalu Yadagiri, son of Sh. Late K Chinnaiah, aged about 34 years, Manager (EEMG), R/o C 10/S4, Vrindavanam Nagar, NTECL Township, Vallur, Chennai—600120 (T.N) do hereby solemnly affirm and state as follows:




K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.


E. RAVICHANDRAN, M.A., B.L.
ADVOCATE & NOTARY PUBLIC
(GOVERNMENT OF INDIA)
No.122, T.H. Road, Ponneri - 601 204. 27/11/2024

1. That the deponent is the Manager (EEMG) of the Petitioner NTPC Limited 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 me / my authorized representative under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the contents of Para No. 01..... to 22..... as mentioned in the Petition are true and correct based on 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.

(Signature)

(DEPONENT)

K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

VERIFICATION

Verified at Noida on this 27th 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.

(Signature)

(DEPONENT)

K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.



(Signature)
E. RAVICHANDRAN, M.A., 27/11/2024
ADVOCATE & NOTARY PUBLIC
(GOVERNMENT OF INDIA)
No. 122, T.H. Road, Ponneri - 601 204.

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Vallur Thermal Power Station (3X500 MW)

(From 01.04.2024 to 31.03.2029)

PART-I

APPENDIX-I

(Kw)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

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

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

Provided yearwise for the period 2019-24

** Additional Forms

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

PART-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM -H	Statement of Additional Capitalisation during end of the useful life	
FORM -I	Details of Assets De-capitalised during the period	***
FORM -J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM -K	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	***
FORM-M	Statement of Capital Woks in Progress	***
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	***
FORM-T	Summary of issues involved in the petition	✓

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

(kw)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

PART-I
FORM- 1

Summary of Tariff

Name of the Petitioner: NTECL
Name of the Generating Station: Vallur Thermal Power Station (3X500 MW)
Place (Region/District/State): Southern/ Tiruvallur/Tamil Nadu

S. No.	Particulars	Unit	Amount in Rs. Lakhs					
			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	47,787.33	47,926.16	48,128.63	23,345.44	23,750.90	24,479.99
1.2	Interest on Loan	Rs Lakh	17,844.57	16,157.06	12,520.33	9,495.99	7,656.09	5,989.65
1.3	Return on Equity	Rs Lakh	53,910.31	54,103.63	54,325.78	54,568.49	54,862.43	55,346.23
1.4	Interest on Working Capital	Rs Lakh	15,012.82	16,721.85	16,791.24	16,503.83	16,610.31	16,745.82
1.5	O&M Expenses	Rs Lakh	45,094.48	45,367.00	47,754.00	50,259.00	52,897.00	55,670.00
1.6	Special Allowance (if applicable)	Rs Lakh						
	Total	Rs Lakh	179649.52	180275.69	179519.98	154172.75	155776.73	158231.70
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton	3949.75	5007.59	5007.59	5007.59	5007.59	5007.59
	(%) of Fuel Quantity	(%)						100
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries							
	(%) of Fuel Quantity							
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.4	Landed Fuel Cost Imported Coal other than FSA.							
	(%) of Fuel Quantity							
2.5	Secondary fuel oil cost	Rs/Unit	89900.673	82464.560	82464.560	82464.560	82464.560	82464.560
	Energy Charge Rate ex-bus (Paise/kWh)	Rs/Unit	3.339	3.882	3.882	3.882	3.882	3.882

K YA (petitioner)
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavari

Name of the Petitioner:
Name of the Generating Station:NTECL
Vallur Thermal Power Station (3X500 MW)

Amount in Rs. Lakhs

Statement showing claimed capital cost – (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	9,59,534.60	9,63,131.94	9,67,657.08	9,71,900.02	9,78,154.02
2	Add: Addition during the year/period	3,597.34	4,525.14	4,242.94	6,254.00	11,001.14
3	Less: De-capitalisation during the year/period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-
6	Closing Capital Cost	9,63,131.94	9,67,657.08	9,71,900.02	9,78,154.02	9,89,155.16
7	Average Capital Cost	9,61,333.27	9,65,394.51	9,69,778.55	9,75,027.02	9,83,654.59

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

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	954648.97	957561.91	961674.05	965621.99	971875.99
2	Add: Addition during the year / period	2912.94	4112.14	3947.94	6254.00	10620.00
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	957561.91	961674.05	965621.99	971875.99	982495.99
7	Average Capital Cost	956105.44	959617.98	963648.02	968748.99	977185.99

Statement showing claimed capital cost eligible for RoE linked with SBI MCLR

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	4885.63	5570.03	5983.03	6278.03	6278.03
2	Add: Addition during the year / period	684.40	413.00	295.00	0.00	381.14
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	5570.03	5983.03	6278.03	6278.03	6659.17
7	Average Capital Cost	5227.83	5776.53	6130.53	6278.03	6468.60


(Petitioner)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Name of the Petitioner: NTECL
 Name of the Generating Station: Vallur Thermal Power Station (3X500 MW)
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
	Return on Equity					
1	Gross Opening Equity (Normal)	2,86,394.69	2,87,268.57	2,88,502.21	2,89,686.60	2,91,562.80
2	Less: Adjustment in Opening Equity	-				
3	Adjustment during the year		-	-	-	-
4	Net Opening Equity (Normal)	2,86,394.69	2,87,268.57	2,88,502.21	2,89,686.60	2,91,562.80
5	Add: Increase in equity due to addition during the year / period	873.88	1233.64	1184.38	1876.20	3186.00
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	-	-	-	-	-
10	Net closing Equity (Normal)	2,87,268.57	2,88,502.21	2,89,686.60	2,91,562.80	2,94,748.80
11	Average Equity (Normal)	2,86,831.63	2,87,885.39	2,89,094.41	2,90,624.70	2,93,155.80
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	53,872.72	54,070.63	54,297.71	54,585.13	55,060.52


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Name of the Petitioner:

NTECL

Name of the Generating Station:

Vallur Thermal Power Station (3X500 MW)

Statement showing Return on Equity linked to SBI MCLR

Amount in Rs. Lakhs

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	RoE linked with SBI MCLR					
1	Gross Opening Equity (Normal)	1465.69	1671.01	1794.91	1883.41	1883.41
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	1465.69	1671.01	1794.91	1883.41	1883.41
5	Add: Increase in equity due to addition during the year / period	205.32	123.90	88.50	0.00	114.34
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	1671.01	1794.91	1883.41	1883.41	1997.75
11	Average Equity (Normal)	1568.35	1732.96	1839.16	1883.41	1940.58
12	Rate of ROE (%)	14.723	14.723	14.723	14.723	14.723
13	Total ROE	230.91	255.14	270.78	277.29	285.71


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Plant Characteristics

Name of the Petitioner : NTPC Tamil Nadu Energy Company Limited (NTECL)
Name of the Generating Station : VTPS-VALLUR (3 X 500 MW)

Unit(s)/ Block(s) Parameters	Unit-I	Unit-II	Unit III
Installed Capacity (MW)	500	500	500
Schedule COD as per Investment Approval	12.02.2011	12.08.2011	27.01.2013
Actual COD /Date of Taken Over (as applicable)	29.11.2012	25.08.2013	26.02.2015
Pit Head or Non Pit Head or Integrated Mine	Non-Pit Head		
Distance from Integrated mine (kms), If applicable			
Name of the Boiler Manufacture	BHEL		
Name of Turbine Generator Manufacture	BHEL		
Main Steams Pressure at Turbine inlet (kg/Cm ²) abs	170		
Main Steam Temperature at Turbine inlet (oC)	537		
Reheat Steam Pressure at Turbine inlet (kg/Cm ²)	53.73		
Reheat Steam Temperature at Turbine inlet (oC)	565		
Main Steam flow at Turbine inlet under MCR condition (tons /hr)	1457.00		
Main Steam flow at Turbine inlet under VVO condition (tons /hr) ²	1544.922		
Unit Gross electrical output under MCR /Rated condition (MW) ²	500		
Unit Gross electrical output under VVO condition (MW) ²	529.765		
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	1932		
Boiler Efficiency specified by Manufacturer (%)	85.00%		
Conditions on which design turbine cycle heat rate guaranteed			
% MCR	100%		
% Makeup Water Consumption	0% MU at guaranteed condition		
Design Capacity of Make up Water System	3%		
Design Capacity of Inlet Cooling System	54000 m ³ /hr		
Design Cooling Water Temperature (0C)	33		
Back Pressure	77 mm of Hg		
Steam flow at super heater outlet under BMCR condition (tons/hr)	1725		
Steam Pressure at super heater outlet under BMCR condition) (kg/Cr	178		
Steam Temperature at super heater outlet under BMCR condition (0C	540		
Steam Temperature at Reheater outlet at BMCR condition (0C)	540		
Design / Guaranteed Boiler Efficiency (%) ⁴	0.85		
Design Fuel with and without Blending of domestic/imported coal	Sub Bituminous Indian Coal (GCV 3300, ash 41, moisture 14%)		
Type of Cooling Tower	Induced Draft		
Type of cooling system	Closed Circuit Cooling (Sea Water)		
Type of Boiler Feed Pump	Steam Driven		
Fuel Details			
- Primary Fuel	Coal		
-Secondary Fuel	LDO/HFO		
-Alternate Fuels			
Types of SOX control system	FGD (under implementation)		
Types of NOX control system	De Nox Burners		
Details of SPM control system			
Special Features/Site Specific Features	Special Features/Site Specific Features ⁴ : Non Pit Head, Total raw water from sea water, Production of potable water and DM water through Desalination plant, close to SEA (CRZ clearance obtained), Cross country coal conveyor between port and plant, bridge over the creek for coal conveyor and water pipe lines, Gas insulated switch yard constructed due to sea vicinity		
Special Technological Features	N/A		
Environmental Regulation related features	ESP		
Any other special features	FGD under implementation		

¹ Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling.

² Motor driven, steam turbine driven etc.

³ Coal or natural gas or naphtha or lignite etc.

⁴ Any site specific feature such as Merry-go-round, vicinity to sea, intake/make up water system etc. scrubbers etc.

⁵ Any special Technological feature like Advanced class FA technology in Gas Turbines etc.

⁶ Environmental regulation related features like FGD, ESP etc.

⁷ Minimum Boiler efficiency consider as per CERC of 85%


PETITIONER

K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Normative parameters considered for tariff computations

Name of the Petitioner: NTECL
Name of the Generating Station: Vallur Thermal Power Station (3X500 MW)

(Year Ending March)

Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
Base Rate of Return on Equity \$\$	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization** \$\$	%	7.925	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 Hours	%	85.00	85.00	85.00	85.00	85.00	85.00
Off-Peak Hours	%	85.00	85.00	85.00	85.00	85.00	85.00
β- Average Monthly Frequency Response Performance ##	0-1						
Auxiliary Energy Consumption*	%	7.19	6.69	6.69	6.69	6.69	6.69
Gross Station Heat Rate	kCal/kWh	2358.84	2375.22	2375.22	2375.22	2375.22	2375.22
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	50	50	50	50	50
Cost of Main Secondary Fuel Oil for WC1	in Months	2	2	2	2	2	2
Fuel Cost for WC2	in Months						
Liquid Fuel Stock for WC2	in Months						
O&M Expenses	Rs lakh/MW	25.84	27.17	28.6	30.1	31.68	33.34
Maintenance Spares for WC	% of O&M	20.00	20.00	20.00	20.00	20.00	20.00
Receivables for WC	in Days	45	45	45	45	45	45
Storage capacity of Primary fuel	MT	The existing storage capacity of primary fuel is approx. 30 days with three units operating at normative availability factor.(6 LMT)					
SBI 1 Year MCLR plus 350 basis point ³	%	12.00	11.90	11.90	11.90	11.90	11.90
Blending ratio of domestic coal/imported coal							
Norms for consumption of reagent							
Specific Limestone consumption for Wet Limestone FGD							
Specific Limestone consumption for Lime Spray Dryer or Semi-dry FGD							
Specific consumption of sodium bicarbonate							
Specific Limestone consumption for CFBC based generating station							
specific urea consumption of the SNCR							
Specific ammonia consumption of the SCR							
Transit and Handling Losses of coal or lignite, as applicable							

** Rate of Return on Add - cap linked with SBI MCLR

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

* APC prayed for 2024-29 is 6.69%, kindly refer para-xx of petition.


Petitioner

K. YADAGIRI
Manager (Genl)
NTPC Tamilnadu, Vallur Thermal Power Station, Ltd.
Vallur Thermal Power Station, 601306
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Calculation of O&M Expenses

Name of the Company : **NTECL**
Name of the Power Station : **Vallur Thermal Power Station (3X500 MW)**

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)					
1a	Normative	40755.00	42900.00	45150.00	47520.00	50010.00
2	O&M expenses under Reg.36(1)(6)					
2a	Water Charges	-	-	-	-	-
2b	Security expenses	3276	3448	3629	3820	4021
2c	Additional O&M for Desalination Plant	1336	1406	1480	1557	1639
2d	Capital Spares	Capital spares consumption shall be provided at the time of Truing up				
3	O&M expenses-Ash Transportation	Ash transportation, if any, shall be provided at the time of Truing up				
	Total O&M Expenses	45367	47754	50259	52897	55670


Petitioner

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company : NTECL
Name of the Power Station : Vallur Thermal Power Station (3X500 MW)

Last date of order of Commission for the project	Date (DD-MM-YYYY)	30-05-2023
Reference of petition no. in which the above order was	Petition no.	411/GT/2020
Following details (whether admitted and /or considered) as on the last date of the period (i.e 31.03.2024) for which tariff is approved, in the above order by the		
Capital cost (as on 31.03.2024)	(Rs. in lakh)	938481.83
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)		25577.70
Gross Normative Debt		656937.28
Cumulative Repayment		469885.43
Net Normative Debt		187051.85
Normative Equity		281544.55
Cumulative Depreciation		469885.43
Freehold land		10916.86


(Petitioner)

K YADAGIRI
Manager (FEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner
Name of the Generating Station
COD
For Financial Year

NTECL
Vallur Thermal Power Station (3X500 MW)
26-02-2015
2024-29 (Summary)

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Regulations under which claimed	Justification/ Regulation under which claimed	Amount in Rs Lakh Admitted Cost by the Commission, if any
		2024-25	2025-26	2026-27	2027-28	2028-29			
1	2	3	4	5	6	7	8	9	
A. Works eligible for RoE at Normal Rate									
1	Replacement of maxDNA HMI & Honeywell HMI (upgradation)	2,478	2,596	2,478	-	-	25(2)(c)		
2	Replacement of VMS analysis system (upgradation)	274.94	274.94	274.94	-	-	25(2)(c)		
3	Replacement of 24 V Dc charger (upgradation)	-	472	472	354	-	25(2)(a) & 25(2)(c)		
4	Replacement SCADA of Switchgear along with relays	160	250	251	-	-	25(2)(c)		
5	LT breakers replacement	-	165.2	118	-	-	25(2)(c)	Please refer Form -9 of respective year	
6	Pipe Conveyor and Grab unloader VFD System	-	354	354	-	-	25(2)(c)		
7	Ash Dyke / ash related works (lagoon)	-	-	-	5,900	10,620	25(1)(c)	Rs 2443.44 lakhs	
Total (A)		2912.94	4112.14	3947.94	6254.00	10620.00			
B. Works eligible for RoE linked with SBI MCLR									
Allowed works / Granted liberty for claiming									
9	Online Insulating oil Dryout System of 400KV and above	-	295.0	295.0	-	-	26(1)(b)		
10	Retrofitting of DG set as TNPCB requirement	-	118.0	-	-	-	26(1)(b)	Please refer Form -9 of respective year	
11	CCTV for Security	94.4	-	-	-	-	26(1)(d)		
12	Dust Suppression system for Ash Dyke-Lagoon	-	-	-	-	381.1	26(1)(b)	Rs 599 lakhs	
13	IAC Screw compressors with dryers with accessories	590.0	-	-	-	-			
Total (B)		684.4	413.0	295.0	-	381.1			
Total Add. Cap. Claimed (A+B)		3597.34	4525.14	4242.94	6254.00	11001.14			

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner NTECL
Name of the Generating Station Vallur Thermal Power Station (3X500 MW)
COD 26-02-2015
For Financial Year 2024-25

Amount in Rs Lakhs

Sl. No.	Head of Work /Equipment	ACE Claimed (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	7	8	9
A. Works eligible for RoE at Normal Rate								
1	Replacement of maxDNA HMI & Honeywell HMI (upgradation)	2478	-	2478	-	25(2)(c)	The Windows XP/ Windows 7 based workstation hardware and Microsoft Operating System available at sites is out of mainstream support from OEM and Microsoft respectively. Also the support for Symantec Antivirus version 10.x /11.x /12.x has been withdrawn by the OEM and no more security updates / virus definitions are available for that version. Hence the HMIs-maxStations are prone to vulnerabilities which can tamper the operation of plant. BHEL has advised to upgrade the existing controllers/instrumentation for continued support of spares/service. Similarly Honeywell has also advised to upgrade the same for removal of obsolescens. Microsoft declaration for end of support for windows XP is enclosed as Annexure-1. BHEL communication for max DNA obsolesce is enclosed as Annexure-2. Honeywell Automation India Ltd. communication for HMI obsolesce is enclosed as Annexure-3. In this regard, it submitted that Hon'ble CERC vide order dtd 17.11.2021 has allowed similar work i.e upgradation of DCS Controllers & HMI under Regulation 25(2)(c) of Tariff Regulations 2019 in case of Ramagundam-III plant of NTPC. Hon'ble Commission may be pleased to allow the same in the present station.	
2	Replacement of VMS analysis system (upgradation)	274.94	-	274.94	-	25(2)(c)	Vibration monitoring System (VMS) is an online system to measure and monitor turbine parameters. These system are very critical for running of turbine generator. These system hardware is obsolete and not supported by the OEM hence to monitor the Turbine and aux health the system upgradation is required. Accordingly, for sustained operation of the unit the existing obsolete VMS system is upgraded to the latest system. OEM/OES has also informed that the product has evolved and recommended that these existing systems should be replaced by the latest generation VibroSight software and the new VM600 XMx16 cards. The OEM/OES communication for obsolescens and end of sale is enclosed as Annexure-4.	
3	Replacement SCADA of Switchgear along with relays	160	-	160	-	25(2)(c)	Supervisory Control and Data Acquisition (SCADA), is a hardware and software system, used for controlling, monitoring, and analyzing industrial devices and processes. SCADA systems are crucial for a power plant operation since they help to maintain efficiency, process data for smarter decisions, and communicate system issues to help mitigate downtime. The Vallur TPP of NTECL consists of 11kV, 3.3kV (HT) and 415V (LT) switchboards with Numerical protection relays communicating with Data Concentrator and HMI through IEC 61850 switches of M/s ABB. It has a provision for integration with DDCMIS system (other make) over OPC. The existing system of ABB make 800xA system of 5.0 Version and having Windows server 2003 OS. The service support for windows OS has become obsolete. The spares support and maintenance services are also not available. The OEM (M/s ABB) has advised to hardware (IT) and software upgradation. M/s ABB communication is enclosed as Annexure-5. Hon'ble Commission may be pleased to allow the same.	
Total (A)		2,912.94	-	2,912.94	-			
B. Works eligible for RoE linked with SBI MCLR								
4	CCTV for Security	94.4	-	94.4	-	26(1)(d)	It is submitted that the remote visual monitoring of unmanned locations like Switchgear room area, etc is not continuously possible. Further, timely detection of fire, cable burning, theft of locally mounted instruments, valves, solenoids, etc is very much essential for safety as well as security of material. Movement of unauthorized personnel or fire caused by smoldering coal or spilled-out oil, burning of cables due to short circuit, etc can be monitored and timely action can be taken by covering these areas through CCTV system. As the current capitalization corresponds to the activity on account of need for higher security and safety of the unit, the Hon'ble Commission may be pleased to allow the capitalization of the same.	
5	IAC Screw compressors with dryers with accessories	590	-	590	-	26(1)(b), 26(1) & 26(1)(i)	The MoEF&CC notification, S.O. 5481(E) dated 31.12.2021 mandates to utilise 100% fly ash generated. The poor coal quality with high ash content and coarser ash particle leads to higher burden on screw compressors of ash conveying system and thus impacting electricity generation of the plant. The present screw compressors with dryers and accessories are insufficient for meeting the requirement. The same is being augmented/replaced with energy efficient screw compressors. Further, augmentation of ash handling fly ash conveying system is necessary for continuous availability and reliability of the plant.	
Total (B)		684.40	-	684.40	-			
Total Add. Cap. Claimed (A+B)		3,597.34	-	3,597.34	-			


(Petitioner)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner NTECL
 Name of the Generating Station Vallur Thermal Power Station (3X500 MW)
 COD 26-02-2015
 For Financial Year 2025-26

Amount in Rs Lakhs

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which	Justification	Admitted Cost by the Commission
		Accrual basis as per IGAAP	Un-discharged Liability	Cash basis	IDC included in col. 3			
1	2	3	4	5=(3-4)	6	7	8	9
A. Works eligible for RoE at Normal Rate								
1	Replacement of maxDNA HMI & Honeywell HMI (upgradation)	2596	-	2596		25(2)(c)	Same as 2024-25	
2	Replacement of VMS analysis system (upgradation)	274.94	-	274.94		25(2)(c)	Same as 2024-25	
3	Replacement of 24 V Dc charger (upgradation)	472	-	472		25(2)(a) & 25(2)(c)	These 24 V DC charger are used for powering up the DCS system. The life of the existing charger is expired and the product has become obsolete. The supplier also recommend to replace the obsolete battery charger with new charger. The Communication from supplier is enclosed as Annexure-6	
4	Replacement SCADA of Switchgear along with relays	250	-	250		25(2)(c)	Same as 2024-25	
5	LT breakers replacement	165.2	-	165.2		25(2)(c)	The existing GE make Breakers are obsolete. For Reliable unit operation needs replacement with Compatible breakers.	
6	Pipe Conveyor and Grab unloader VFD System	354	-	354		25(2)(c)	The coal for the station is transported from mine to the sea port by rail/road and by sea to the nearest Ennore port. Cross country pipe conveyor system is installed for transporting coal from Ennore port to the Vallur TPS. At Vallur TPS, Coal is unloaded from ships using two numbers of Grab unloader and then transported through conveyors. During the preventive maintenance visit by OEM/OES, OEM/OES recommends to replace electrolyte capacitors, thermal component etc which has outlived their life and also recommended to perform the partial upgradation of ACS800 drives to ACS880 drive which has become obsolete. Therefore, for reliable and efficient operation of pipe conveyor and VFD system is being upgraded.	
Total (A)		4,112.14	-	4,112.14				

pw

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

B. Works eligible for RoE linked with SBI MCLR						
7	Online Insulating oil Dryout System of 400KV and above	295	-	295	26(1)(b)	<p>Clause 46(1)(a) of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 states that "Power transformer shall be designed, manufactured, tested and commissioned as per Central Electricity Authority's "Standard Specifications and Technical Parameters for Transformers and reactors (66 kV and above)".</p> <p>Section-2.15 of Chapter-6 and Annexure-U of Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above), specifies the use of an Online Insulating Oil Dry Out System for 400 kV and above class of Transformers and Reactors.</p> <p>Further, CEA in its letter dtd 20.09.2023 has directed to follow the provisions of the CEA's Regulations and Standards in respect of the installation of an Online Insulating Oil Dry Out System. The letter of CEA is attached as Annexure-7.</p>
8	Retrofitting of DG set as TNPCB requirement	118	-	118	26(1)(b)	<p>Tamil Nadu pollution control board (TNPCB) vide notification dtd 10.6.2020 has directed all the industries / establishment within the State of Tamil Nadu to retrofit all operational DG sets of Capacity 125 KVA and above with a device / equipment for meeting the specified norm. The notification of TNPCB is attached as Annexure-8.</p> <p>Accordingly, the work of retrofitting of DG sets is being done in order to comply the directions of TNPCB. Hon'ble Commission may be pleased to allow the same.</p>
Total (B)		413.00	-	413.00		
Total Add. Cap. Claimed (A+B)		4,525.14	-	4,525.14		


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner NTECL
 Name of the Generating Station Vallur Thermal Power Station (3X500 MW)
 COD 26-02-2015
 For Financial Year 2026-27

Amount in Rs Lakhs

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commissi
		Accrual basis as per IGAAP	Un-discharged Liability	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
A. Works eligible for RoE at Normal Rate								
	Replacement of maxDNA HMI & Honeywell HMI (upgradation)	2478	-	2478		25(2)(c)	Same as 2024-25	
	Replacement of VMS analysis system (upgradation)	274.94	-	274.94		25(2)(c)	Same as 2024-25	
	Replacement of 24 V Dc charger (upgradation)	472	-	472		25(2)(a) & 25(2)(c)	Same as 2025-26	
	Replacement SCADA of Switchgear along with relays	251	-	251		25(2)(c)	Same as 2024-25	
	LT breakers replacement	118	-	118		25(2)(c)	Same as 2025-26	
	Pipe Conveyor and Grab unloader VFD System	354	-	354		25(2)(c)	Same as 2025-26	
	Total (A)	3,947.94	-	3,947.94	-			
B. Works eligible for RoE linked with SBI MCLR								
	Online Insulating oil Dryout System of 400KV and above	295	-	295		26(1)(b)	Same as 2025-26	
	Total (B)	295	-	295				
	Total Add. Cap. Claimed (A+B)	4,242.94	-	4,242.94				

(Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner NTECL
 Name of the Generating Station Vallur Thermal Power Station (3X500 MW)
 COD 26-02-2015
 For Financial Year 2027-28

Amount in Rs Lakhs

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulation s 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	7	8	9
A. Works eligible for RoE at Normal Rate								
1	Replacement of 24 V Dc charger (upgradation)	354	-	354		25(2)(a) & 25(2)(c)	Same as 2025-26	
2	Ash Dyke / ash related works (lagoon)	5900	-	5,900		25(1)(c)	Hon'ble CERC vide order dtd 30.05.2023 in petition no. 411/GT/2020 has allowed projected capitalisation of Rs. 2443.44 lakh during 2023-24, however the execution of the work was deferred as per requirement of the plant. The projected expenditure is for planned works related to ash dyke/ ash handling system, which are of continuous nature during operational life of generating station. These works are as per the approved scheme under original scope of work and the projected cost is based on current estimation. Hon'ble Commission may be pleased to allow the same.	
Total (A)		6,254.00	-	6,254.00	-			
B. Works eligible for RoE linked with SBI MCLR								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		6,254.00	-	6,254.00	-			

(Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner NTECL
 Name of the Generating Station Vallur Thermal Power Station (3X500 MW)
 COD 26-02-2015
 For Financial Year 2028-29

Amount in Rs Lakhs

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulation s 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	7	8	9
A. Works eligible for RoE at Normal Rate								
1	Ash Dyke / ash related works (lagoon)	10620	-	10,620.00		25(1)(c)	Same as 2027-28	
Total (A)		10,620.00	-	10,620.00	-			
B. Works eligible for RoE linked with SBI MCLR								
2	Dust Suppression system for Ash Dyke- Lagoon	381	-	381		26(1)(b)	Hon'ble CERC vide order dtd 30.05.2023 in petition no. 411/GT/2020 has allowed projected capitalisation of Rs. 599 lakh during 2019-24, however the only a part of system was executed of around Rs 24 lakhs and balance work was deferred for execution. The same is now projected to be executed during 2028-29. In order to comply with TNPCB norms station has to ensure that the discharge of ash to dyke should be only in slurry form and also to provide an adequate water cover to maintain the ash dyke to prevent fugitive emission. TNPCB direction in this regard is attached as Annexure-9 . Hon'ble Commission may be pleased to allow the same under Regulation 26(1)(b) of Tariff Regulations 2024.	Rs 599 lakhs
Total (B)		381	-	381				
Total Add. Cap. Claimed (A+B)		11,001.14	-	11,001.14				


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

NTECL
Vallur Thermal Power Station (3X500 MW)
26-02-2015

Name of the Petitioner
Name of the Generating Station
Date of Commercial Operation

Amount in Rs Lakh

Financial Year (Starting from COD) 1	Actual					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1	3	4	5	6	7	8	9	10	11	

Amount capitalised in Work/ Equipment

Financing Details

Loan-1
Loan-2
Loan-3 and so on
Total Loan2
Equity
Internal Resources
Others (Pl. specify)
Total

Add cap is proposed to be financed in Debt : Equity ratio of 70:30

Note:

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

K YADAGIRI
(Petitioner)

Manager (EEMG)
NTPC Taminadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 100

		Statement of Depreciation								PART-I FORM- 12
		NTECL								
		Vallur Thermal Power Station (3X500 MW)								
		(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	957562.35	9,59,534.60	9,63,131.94	9,67,657.08	9,71,900.02	9,78,154.02			
2	Closing Capital Cost	959534.60	9,63,131.94	9,67,657.08	9,71,900.02	9,78,154.02	9,89,155.16			
3	Average Capital Cost	958548.48	9,61,333.27	9,65,394.51	9,69,778.55	9,75,027.02	9,83,654.59			
1a	Cost of IT Equipments & Software included in (1) above	1066.00	1,119.00	1,119.00	1,119.00	1,119.00	1,119.00			
2a	Cost of IT Equipments & Software included in (2) above	1119.00	1,119.00	1,119.00	1,119.00	1,119.00	1,119.00			
3a	Average Cost of IT Equipments & Software	1092.50	1,119.00	1,119.00	1,119.00	1,119.00	1,119.00			
4	Freehold land	13,433.99	13,433.99	13,433.99	13,433.99	13,433.99	13,433.99			
5	Rate of depreciation	4.985	4.9854%	4.9854%						
6	Depreciable value	8,50,712.29	8,53,221.25	8,56,876.37	8,60,822.01	8,65,545.63	8,73,310.44			
7.	Balance useful life at the beginning of the period	15.65	14.65	13.65	12.65	11.65	10.65			
8	Remaining depreciable value	4,28,550.77	3,83,773.88	3,39,502.83	2,95,319.84	2,76,698.02	2,60,711.93			
9	Depreciation (for the period)	47,787.33	47,926.16	48,128.63	23,345.44	23,750.90	24,479.99			
10	Depreciation (annualised)	47,787.33	47,926.16	48,128.63	23,345.44	23,750.90	24,479.99			
11	Cumulative depreciation at the end of the period		5,17,373.54	5,65,502.17	5,88,847.61	6,12,598.51	6,37,078.51			
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	-	-	-	-	-			
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	501.47	-	-	-	-	-			
15	Net Cumulative depreciation at the end of the period after adjustments	4,69,447.37	5,17,373.54	5,65,502.17	5,88,847.61	6,12,598.51	6,37,078.51			

(Petitioner)

K. PADAGIRI

Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

FORM-13

**Calculation of Weighted Average
Interest Rate on Actual Loans****Name of the Company:****NTPC TamilNadu Energy Company limited****Name of the Power Station:****Vallur Thermal Power Project**

REC Drawal -1-Phase I	2024-25	2025-26	2026-27	2027-28	2028-29
Gross loan - Opening	3658.3221	3658.3221	3658.3221	3658.3221	3658.3221
Cumulative repayments of Loans upto previous year	2295.181	2539.070	2782.958	3026.846	3270.734
Net loan - Opening	1363.141	1119.253	875.364	631.476	387.588
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	243.888	243.888	243.888	243.888	243.888
Net loan - Closing	1119.253	875.364	631.476	387.588	143.700
Average Net Loan	1241.197	997.308	753.420	509.532	265.644
Rate of Interest on Loan on annual basis	8.50%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	106	91	68	46	24
REC Drawal -2-Phase I					
Gross loan - Opening	98.0490	98.0490	98.0490	98.0490	98.0490
Cumulative repayments of Loans upto previous year	58.829	58.829	58.829	58.829	58.829
Net loan - Opening	32.683	26.146	19.610	13.073	6.537
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	6.537	6.537	6.537	6.537	6.537
Net loan - Closing	26.146	19.610	13.073	6.537	0.000
Average Net Loan	29.415	22.878	16.342	9.805	3.268
Rate of Interest on Loan on annual basis	8.48%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	2.4944	2.0796	1.4854	0.8913	0.2971
REC Drawal -3-Phase I					
Gross loan - Opening	0.0712	0.0712	0.0712	0.0712	0.0712
Cumulative repayments of Loans upto previous year	0.043	0.043	0.043	0.043	0.043
Net loan - Opening	0.024	0.019	0.014	0.009	0.005
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	0.005	0.005	0.005	0.005	0.005
Net loan - Closing	0.019	0.014	0.009	0.005	0.000
Average Net Loan	0.021	0.017	0.012	0.007	0.002
Rate of Interest on Loan on annual basis	8.04%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	0.0017	0.0015	0.0011	0.0006	0.0002



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REC Drawal -4-Phase I					
Gross loan - Opening	15.0000	15.0000	15.0000	15.0000	15.0000
Cumulative repayments of Loans upto previous year	15.770	15.770	15.770	15.770	15.770
Net loan - Opening	15.502	14.502	13.502	12.502	11.502
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	1.000	1.000	1.000	1.000	1.000
Net loan - Closing	14.502	13.502	12.502	11.502	10.502
Average Net Loan	15.002	14.002	13.002	12.002	11.002
Rate of Interest on Loan on annual basis	8.98%	9.01%	9.09%	9.09%	9.09%
Interest on Loan	1.3472	1.2616	1.1819	1.0910	1.0001
REC Drawal -5-Phase I					
Gross loan - Opening	20.000	20.000	20.000	20.000	20.000
Cumulative repayments of Loans upto previous year	12.667	12.667	12.667	12.667	12.667
Net loan - Opening	6.667	5.333	4.000	2.667	1.333
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	1.333	1.333	1.333	1.333	1.333
Net loan - Closing	5.333	4.000	2.667	1.333	0.000
Average Net Loan	6.000	4.667	3.333	2.000	0.667
Rate of Interest on Loan on annual basis	9.07%	9.07%	9.09%	9.09%	9.09%
Interest on Loan	0.5442	0.4233	0.3030	0.1818	0.0606
REC Drawal -6-Phase I					
Gross loan - Opening	35.000	35.000	35.000	35.000	35.000
Cumulative repayments of Loans upto previous year	21.441	21.441	21.441	21.441	21.441
Net loan - Opening	11.864	9.492	7.119	4.746	2.373
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	2.373	2.373	2.373	2.373	2.373
Net loan - Closing	9.492	7.119	4.746	2.373	0.000
Average Net Loan	10.678	8.305	5.932	3.559	1.186
Rate of Interest on Loan on annual basis	8.98%	8.98%	9.04%	9.09%	9.09%
Interest on Loan	0.9589	0.7458	0.5363	0.3235	0.1078

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REC Drawal -7-Phase I					
Gross loan - Opening	60.000	60.000	60.000	60.000	60.000
Cumulative repayments of Loans upto previous year	35.862	35.862	35.862	35.862	35.862
Net loan - Opening	20.690	16.552	12.414	8.276	4.138
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	4.138	4.138	4.138	4.138	4.138
Net loan - Closing	16.552	12.414	8.276	4.138	0.000
Average Net Loan	18.621	14.483	10.345	6.207	2.069
Rate of Interest on Loan on annual basis	9.19%	9.19%	9.19%	9.19%	9.19%
Interest on Loan	1.7112	1.3310	0.9507	0.5704	0.1901
REC Drawal -8-Phase I					
Gross loan - Opening	20.000	20.000	20.000	20.000	20.000
Cumulative repayments of Loans upto previous year	12.281	12.281	12.281	12.281	12.281
Net loan - Opening	7.018	5.614	4.211	2.807	1.404
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	1.404	1.404	1.404	1.404	1.404
Net loan - Closing	5.614	4.211	2.807	1.404	0.000
Average Net Loan	6.316	4.912	3.509	2.105	0.702
Rate of Interest on Loan on annual basis	9.18%	9.18%	9.18%	9.18%	9.18%
Interest on Loan	0.5798	0.4509	0.3221	0.1933	0.0644
REC Drawal -9-Phase I					
Gross loan - Opening	130.200	130.200	130.200	130.200	130.200
Cumulative repayments of Loans upto previous year	86.416	86.416	86.416	86.416	86.416
Net loan - Opening	41.902	32.432	22.962	13.492	4.022
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	9.470	9.470	9.470	9.470	9.470
Net loan - Closing	32.432	22.962	13.492	4.022	-5.448
Average Net Loan	37.167	27.697	18.227	8.757	-0.713
Rate of Interest on Loan on annual basis	9.09%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	3.3785	2.5177	1.6569	0.7960	-0.0648

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REC Drawal -10-Phase I					
Gross loan - Opening	45.000	45.000	45.000	45.000	45.000
Cumulative repayments of Loans upto previous year	24.200	24.200	24.200	24.200	24.200
Net loan - Opening	18.000	14.400	10.800	7.200	3.600
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	3.600	3.600	3.600	3.600	3.600
Net loan - Closing	14.400	10.800	7.200	3.600	0.000
Average Net Loan	16.200	12.600	9.000	5.400	1.800
Rate of Interest on Loan on annual basis	8.49%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	1.3754	1.1453	0.8181	0.4909	0.1636

REC Drawal -11-Phase I					
Gross loan - Opening	15.000	15.000	15.000	15.000	15.000
Cumulative repayments of Loans upto previous year	8.469	8.469	8.469	8.469	8.469
Net loan - Opening	6.122	4.898	3.673	2.449	1.224
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	1.224	1.224	1.224	1.224	1.224
Net loan - Closing	4.898	3.673	2.449	1.224	0.000
Average Net Loan	5.510	4.286	3.061	1.837	0.612
Rate of Interest on Loan on annual basis	6.97%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	0.3841	0.3896	0.2783	0.1670	0.0557

REC Drawal -12-Phase I					
Gross loan - Opening	25.000	25.000	25.000	25.000	25.000
Cumulative repayments of Loans upto previous year	13.465	13.465	13.465	13.465	13.465
Net loan - Opening	10.311	8.270	6.229	4.188	2.148
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	2.041	2.041	2.041	2.041	2.041
Net loan - Closing	8.270	6.229	4.188	2.148	0.107
Average Net Loan	9.290	7.250	5.209	3.168	1.127
Rate of Interest on Loan on annual basis	9.12%	9.12%	9.12%	9.12%	9.12%
Interest on Loan	0.8473	0.6612	0.4750	0.2889	0.1028

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REC Drawal -13-Phase I					
Gross loan - Opening	60.000	60.000	60.000	60.000	60.000
Cumulative repayments of Loans upto previous year	27.273	27.273	27.273	27.273	27.273
Net loan - Opening	27.273	21.818	16.364	10.909	5.455
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	5.455	5.455	5.455	5.455	5.455
Net loan - Closing	21.818	16.364	10.909	5.455	0.000
Average Net Loan	24.545	19.091	13.636	8.182	2.727
Rate of Interest on Loan on annual basis	9.04%	9.05%	9.09%	9.09%	9.09%
Interest on Loan	2.2189	1.7277	1.2395	0.7437	0.2479
REC Drawal -14-Phase I					
Gross loan - Opening	70.000	70.000	70.000	70.000	70.000
Cumulative repayments of Loans upto previous year	16.667	16.667	16.667	16.667	16.667
Net loan - Opening	33.317	26.647	19.977	13.307	6.637
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	6.670	6.670	6.670	6.670	6.670
Net loan - Closing	26.647	19.977	13.307	6.637	-0.033
Average Net Loan	29.982	23.312	16.642	9.972	3.302
Rate of Interest on Loan on annual basis	9.29%	9.29%	9.29%	9.29%	9.29%
Interest on Loan	2.7853	2.1657	1.5460	0.9264	0.3067
REC Drawal -15-Phase I					
Gross loan - Opening	77.838	77.838	77.838	77.838	77.838
Cumulative repayments of Loans upto previous year	23.492	23.492	23.492	23.492	23.492
Net loan - Opening	37.139	29.539	21.939	14.339	6.739
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	7.600	7.600	7.600	7.600	7.600
Net loan - Closing	29.539	21.939	14.339	6.739	-0.861
Average Net Loan	33.339	25.739	18.139	10.539	2.939
Rate of Interest on Loan on annual basis	8.50%	9.09%	9.09%	9.09%	9.09%
Interest on Loan	2.8338	2.3397	1.6489	0.9580	0.2672

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PHASE 2 - REFINANCED (UBI) DRAWL	2024-25	2025-26	2026-27	2027-28	2028-29
Gross loan - Opening	1518.21	1518.21	1518.21	1518.21	1518.21
Cumulative repayments of Loans upto previous year	428.21	583.93	739.64	895.36	1051.07
Net loan - Opening	1090.00	934.28	778.57	622.85	467.14
Add: drawal(s) during the Year					
Less : Repayment(s) of Loans during the year	155.714	155.714	155.714	155.714	155.714
Net loan - Closing	934.28	778.57	622.85	467.14	311.42
Average Net Loan	1012.138	856.424	700.710	544.995	389.281
Rate of Interest on Loan on annual basis	9.64%	9.64%	9.64%	9.64%	9.64%
Interest on Loan	97.57	82.56	67.55	52.54	37.53

Total Loan	2024-25	2025-26	2026-27	2027-28	2028-29
Gross loan - Opening	5847.690	5847.690	5847.690	5847.690	5847.690
Cumulative repayments of Loans upto previous year	3080.270	3479.872	3879.475	4279.077	4678.680
Net loan - Opening	2721.648	2269.196	1816.745	1364.293	911.842
Add: drawal(s) during the Year	0.000	0.000	0.000	0.000	0.000
Less : Repayment(s) of Loans during the year	452.451	452.451	452.451	452.451	452.451
Net loan - Closing	2269.196	1816.745	1364.293	911.842	459.391
Average Net Loan	2495.422	2042.970	1590.519	1138.068	685.616
Rate of Interest on Loan on annual basis	9.00%	9.32%	9.34%	9.36%	9.40%
Interest on Loan	224.533	190.455	148.477	106.477	64.473

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REC Phase I

Drawl	1	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	10.03	10.03
	2020-21	01-04-2020	31-03-2021	365	10.03	10.03
	2021-22	01-04-2021	25-06-2021	86	10.03	
	2021-22	26-06-2021	31-03-2022	279	6.63	7.43
	2022-23	01-04-2022	31-03-2023	365	6.63	6.63
	2023-24	01-04-2023	31-03-2024	366	6.63	6.63
	2024-25	01-04-2024	26-06-2024	87	6.63	
	2024-25	27-06-2024	31-03-2025	278	9.09	8.50
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	2	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	10.04	10.04
	2020-21	01-04-2020	31-03-2021	365	10.04	10.04
	2021-22	01-04-2021	29-06-2021	90	10.04	
	2021-22	30-06-2021	31-03-2022	275	6.63	7.47
	2022-23	01-04-2022	31-03-2023	365	6.63	6.63
	2023-24	01-04-2023	31-03-2024	366	6.63	6.63
	2024-25	01-04-2024	29-06-2024	90	6.63	
	2024-25	30-06-2024	31-03-2025	275	9.09	8.48
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	3	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	9.87	9.87
	2020-21	01-04-2020	31-03-2021	365	9.87	9.87
	2021-22	01-04-2021	03-09-2021	156	9.87	
	2021-22	04-09-2021	31-03-2022	209	6.65	8.03
	2022-23	01-04-2022	31-03-2023	365	6.65	6.65
	2023-24	01-04-2023	31-03-2024	366	6.65	6.65
	2024-25	01-04-2024	03-09-2024	156	6.63	
	2024-25	04-09-2024	31-03-2025	209	9.09	8.04
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

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Drawl	4	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	25-12-2019	269	10.98	
	2019-20	26-12-2019	31-03-2020	97	8.3	10.27
	2020-21	01-04-2020	31-03-2021	365	8.3	8.3
	2021-22	01-04-2021	03-09-2021	156	8.3	
	2021-22	04-09-2021	31-03-2022	209	8.3	8.30
	2022-23	01-04-2022	30-12-2022	274	8.3	
	2022-23	31-12-2022	31-03-2023	91	8.98	8.47
	2023-24	01-04-2023	31-03-2024	366	8.98	8.98
	2024-25	01-04-2024	31-03-2025	365	8.98	8.98
	2025-26	01-04-2025	30-12-2025	274	8.98	
	2025-26	31-12-2025	31-03-2026	91	9.09	9.01
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	5	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	11-02-2020	317	10.96	
	2019-20	12-02-2020	31-03-2020	49	8.34	10.61
	2020-21	01-04-2020	31-03-2021	365	8.34	8.34
	2021-22	01-04-2021	31-03-2022	365	8.34	8.34
	2022-23	01-04-2022	11-02-2023	317	8.34	
	2022-23	12-02-2023	31-03-2023	48	9.07	8.44
	2023-24	01-04-2023	31-03-2024	366	9.07	9.07
	2024-25	01-04-2024	31-03-2025	365	9.07	9.07
	2025-26	01-04-2025	11-02-2026	317	9.07	
	2025-26	12-02-2026	31-03-2026	48	9.09	9.07
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	6	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	8.39	8.39
	2020-21	01-04-2020	25-09-2020	178	8.39	
	2020-21	26-09-2020	31-03-2021	187	6.83	7.59
	2021-22	01-04-2021	31-03-2022	365	6.83	6.83
	2022-23	01-04-2022	31-03-2023	365	8.3	8.3
	2023-24	01-04-2023	26-09-2023	179	8.98	
	2023-24	27-09-2023	31-03-2024	187	8.98	8.98
	2024-25	01-04-2024	31-03-2025	365	8.98	8.98
	2025-26	01-04-2025	31-03-2026	365	8.98	8.98
	2026-27	01-04-2026	26-09-2026	179	8.98	
	2026-27	27-09-2026	31-03-2027	186	9.09	9.04
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

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Drawl	7	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	9.92	9.92
	2020-21	01-04-2020	18-12-2020	262	9.92	
	2020-21	19-12-2020	31-03-2021	103	6.07	8.83
	2021-22	01-04-2021	31-03-2022	365	6.07	6.07
	2022-23	01-04-2022	31-03-2023	365	6.07	6.07
	2023-24	01-04-2023	18-12-2023	262	6.07	
	2023-24	19-12-2023	31-03-2024	104	9.19	6.96
	2024-25	01-04-2024	31-03-2025	365	9.19	9.19
	2025-26	01-04-2025	31-03-2026	365	9.19	9.19
	2026-27	01-04-2026	31-03-2027	365	9.19	9.19
	2027-28	01-04-2027	31-03-2028	366	9.19	9.19
	2028-29	01-04-2028	31-03-2029	365	9.19	9.19

Drawl	8	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	9.1	9.1
	2020-21	01-04-2020	16-02-2021	322	9.1	
	2020-21	17-02-2021	31-03-2021	43	6.54	8.80
	2021-22	01-04-2021	31-03-2022	365	6.54	6.54
	2022-23	01-04-2022	31-03-2023	365	6.54	6.54
	2023-24	01-04-2023	30-03-2024	365	6.54	
	2023-24	31-03-2024	31-03-2024	1	9.18	6.55
	2024-25	01-04-2024	31-03-2025	365	9.18	9.18
	2025-26	01-04-2025	31-03-2026	365	9.18	9.18
	2026-27	01-04-2026	31-03-2027	365	9.18	9.18
	2027-28	01-04-2027	31-03-2028	366	9.18	9.18
	2028-29	01-04-2028	31-03-2029	365	9.18	9.18

Drawl	9	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	9.19	9.19
	2020-21	01-04-2020	31-03-2021	365	9.19	9.19
	2021-22	01-04-2021	31-03-2022	365	6.8	6.8
	2022-23	01-04-2022	31-03-2023	365	6.8	6.8
	2023-24	01-04-2023	31-03-2024	366	6.8	6.8
	2024-25	01-04-2024	31-03-2025	365	9.09	9.09
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

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K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Drawl	10	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	10.04	10.04
	2020-21	01-04-2020	31-03-2021	365	10.04	10.04
	2021-22	01-04-2021	28-06-2021	89	10.04	
	2021-22	29-06-2021	31-03-2022	276	6.63	7.46
	2022-23	01-04-2022	31-03-2023	365	6.63	6.63
	2023-24	01-04-2023	31-03-2024	366	6.63	6.63
	2024-25	01-04-2024	28-06-2024	89	6.63	
	2024-25	29-06-2024	31-03-2025	276	9.09	8.49
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	11	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	11.65	11.65
	2020-21	01-04-2020	31-03-2021	365	11.65	11.65
	2021-22	01-04-2021	30-03-2022	364	11.65	
	2021-22	31-03-2022	31-03-2022	1	6.96	11.64
	2022-23	01-04-2022	31-03-2023	365	6.96	6.96
	2023-24	01-04-2023	31-03-2024	366	6.96	6.96
	2024-25	01-04-2024	30-03-2025	364	6.96	
	2024-25	31-03-2025	31-03-2025	1	9.09	6.97
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	12	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	03-11-2019	217	8.6	
	2019-20	04-11-2019	31-03-2020	149	8.53	8.57
	2020-21	01-04-2020	31-03-2021	365	8.53	8.53
	2021-22	01-04-2021	31-03-2022	365	8.53	8.53
	2022-23	01-04-2022	30-12-2022	274	8.53	
	2022-23	31-12-2022	31-03-2023	91	9.12	8.68
	2023-24	01-04-2023	31-03-2024	366	9.12	9.12
	2024-25	01-04-2024	31-03-2025	365	9.12	9.12
	2025-26	01-04-2025	31-03-2026	365	9.12	9.12
	2026-27	01-04-2026	31-03-2027	365	9.12	9.12
	2027-28	01-04-2027	31-03-2028	366	9.12	9.12
	2028-29	01-04-2028	31-03-2029	365	9.12	9.12

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Drawl	13	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	30-01-2020	305	8.33	
	2019-20	31-01-2020	31-03-2020	61	8.4	8.34
	2020-21	01-04-2020	31-03-2021	365	8.4	8.4
	2021-22	01-04-2021	31-03-2022	365	8.4	8.4
	2022-23	01-04-2022	30-01-2023	305	8.4	
	2022-23	31-01-2023	31-03-2023	60	9.04	8.51
	2023-24	01-04-2023	31-03-2024	366	9.04	9.04
	2024-25	01-04-2024	31-03-2025	365	9.04	9.04
	2025-26	01-04-2025	30-01-2026	305	9.04	
	2025-26	31-01-2026	31-03-2026	60	9.09	9.05
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

Drawl	14	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	21-03-2020	356	8.64	
	2019-20	22-03-2020	31-03-2020	10	8.23	8.63
	2020-21	01-04-2020	31-03-2021	365	8.23	8.23
	2021-22	01-04-2021	31-03-2022	365	8.23	8.23
	2022-23	01-04-2022	21-03-2023	355	8.23	
	2022-23	22-03-2023	31-03-2023	10	9.29	8.26
	2023-24	01-04-2023	31-03-2024	366	9.29	9.29
	2024-25	01-04-2024	31-03-2025	365	9.29	9.29
	2025-26	01-04-2025	31-03-2026	365	9.29	9.29
	2026-27	01-04-2026	31-03-2027	365	9.29	9.29
	2027-28	01-04-2027	31-03-2028	366	9.29	9.29
	2028-29	01-04-2028	31-03-2029	365	9.29	9.29

Drawl	15	From	To	No of Days	App. Rate	WAR
	2019-20	01-04-2019	31-03-2020	366	10.03	10.03
	2020-21	01-04-2020	31-03-2021	365	10.03	10.03
	2021-22	01-04-2021	27-06-2021	88	10.03	
	2021-22	28-06-2021	31-03-2022	277	6.63	7.45
	2022-23	01-04-2022	31-03-2023	365	6.63	6.63
	2023-24	01-04-2023	31-03-2024	366	6.63	6.63
	2024-25	01-04-2024	27-06-2024	88	6.63	
	2024-25	28-06-2024	31-03-2025	277	9.09	8.50
	2025-26	01-04-2025	31-03-2026	365	9.09	9.09
	2026-27	01-04-2026	31-03-2027	365	9.09	9.09
	2027-28	01-04-2027	31-03-2028	366	9.09	9.09
	2028-29	01-04-2028	31-03-2029	365	9.09	9.09

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 Vallur Thermal Power Station
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BANK	RATE OF INTEREST	From	To			
Union Bank of India	6.65%	01-Apr-21	31-03-2022	365.00	24.27	
				365.00	24.27	6.6500%
Union Bank of India	6.65%	01-Apr-22	29-09-2022	182.00	12.10	
	7.15%	30-Sep-22	31-10-2022	32.00	2.29	
	7.30%	01-Nov-22	30-11-2022	30.00	2.19	
	7.60%	01-Dec-22	31-12-2022	31.00	2.36	
	7.65%	01-Jan-23	31-01-2023	31.00	2.37	
	7.80%	01-Feb-23	28-02-2023	28.00	2.18	
	8.05%	01-Mar-23	31-03-2023	31.00	2.50	
				365.00	25.99	7.1200%
Union Bank of India	8.05%	01-Apr-23	31-08-2023	153.00	12.32	
	7.95%	01-Sep-23	31-01-2024	153.00	12.16	
	8.15%	01-Feb-24	31-03-2024	60.00	4.89	
				366.00	29.37	8.0246%

UBI Rate maintained same for 2024-29

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K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 10

Non-Tariff IncomeName of the Petitioner
Name of the Generating StationNTECL
Vallur Thermal Power Station (3X500 MW)

Amount in Rs lakhs

S. No.	Parameters	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	Income from rent of land or buildings		Shall be provided at the time of Truing up				
2	Income from sale of scrap						
3	Income from advertisements						

Note: As per Regulation 62 of TR 2019, Non-tariff income shall be shared between beneficiaries and generating company in the ratio of 50:50. The Non-tariff income as provided above is after 50% sharing.


(Petitioner)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Details of Water Charges

Name of the Petitioner
Name of the Generating Station

S. No.	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	as per govt. notificatio	Spillage of water (in percentage)	Amount Claimed
	of source and	Amount	Unit....	Unit....			
1	Not applicable						
2							
3							
4							
5							
6							



(Petitioner)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Details of Statutory Charges

Name of the Petitioner

Name of the Generating Station

Particulars	Unit Rate	No of Units	Amount Claimed
Electricity Duty		NA	
Water Cess			
...			
...			
...			


(Petitioner)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Summary of Gross Block reconciliation

Name of the Petitioner

Name of the Generating Station


COD

For Financial Year : 2019-24

Amt in Rs Crore

SI No	Particular	2024-25	2025-26	2026-27	2027-28	2028-29
1	Closing Gross Block as per IND AS					
2	Add: Ind AS Adustment as on 31.03.2020 / 2021					
	Less: Gross block adjustment with regard to Acc. Dep for decapitalisation					
	Less: capital overhauling/major inspection capitalised out of revenue					
	Add: Decapitalisation of capital Overhauling during the year					
	Add: Vendor Discounting					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add: Cummulative Ind AS Adustment as on 31.03.2019 / 2020 / 2021					
6	Opening Gross Block as per IGAAP					
7	Total Additions as per books (G = 3 - 6)					
8	Less: Additions pertaining to other stages					
9	Net Additions pertaining to instant project/Unit/Stage					
10	Less: Exclusions (items not allowable / not claimed)					
11	Net Additional Capital Expenditure Claimed (on accrual basis)					
12	Less: Un-discharged Liabilities (as per IGAAP)					
13	Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)					
14	Net Additional Capital Expenditure Claimed (on cash basis)					

Shall be submitted at the time of truing up


 (Petitioner)

K. YADAGIRI
 Manager
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

PART-I
FORM- N

Calculation of Interest on Normative Loan

Name of the Company :
Name of the Power Station :

NTECL
Vallur Thermal Power Station (3X500 MW)

S. No.	Particulars	Existing 2023-24	(Amount in Rs Lakh)							
			2024-25	2025-26	2026-27	2027-28	2028-29	2028-29	2028-29	
1	2	3	4	5	6	7	8			
1	Gross Normative loan – Opening	6,70,293.65	6,71,674.22	6,74,192.36	6,77,359.96	6,80,330.02	6,84,707.82			
2	Cumulative repayment of Normative loan up to previous year	4,22,161.52	4,69,447.37	5,17,373.54	5,65,502.17	5,88,847.61	6,12,598.51			
3	Net Normative loan – Opening	2,48,132.13	2,02,226.85	1,56,818.82	1,11,857.79	91,482.41	72,109.30			
4	Add: Increase due to addition during the year / period	1584.90	2,518.14	3,167.60	2,970.06	4,377.80	7,700.80			
5	Less: Decrease due to de-capitalisation during the year / period	-970.54	-	-	-	-	-			
6	Less: Decrease due to reversal during the year / period									
7	Add: Increase due to discharges during the year / period	766.22	-	-	-	-	-			
8	Addition in Loan due to Net add cap	1380.58	2518.14	3167.60	2970.06	4377.80	7700.80			
9	Less: Repayment of Loan	47787.33	47,926.16	48,128.63	23,345.44	23,750.90	24,479.99			
10	Repayment adjustment on account of de-cap	501.47	-	-	-	-	-			
11	Repayment adj for discharges upto 01.04.09									
12	Net repayment	47285.86	47,926.16	48,128.63	23,345.44	23,750.90	24,479.99			
13	Net Normative loan - Closing	2,02,226.85	1,56,818.82	1,11,857.79	91,482.41	72,109.30	55,330.11			
14	Average Normative loan	2,25,179.49	1,79,522.83	1,34,338.31	1,01,670.10	81,795.85	63,719.70			
15	Weighted average rate of interest	7.9246	9.00	9.32	9.34	9.36	9.40			
16	Interest on Loan	17844.57	16157.06	12520.33	9495.99	7656.09	5989.65			


(Petitioner)

K. YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O. Vallur Thermal Power Station

**PART 1
FORM-O**

Calculation of Interest on Working Capital

Name of the Company : NTECL
Name of the Power Station : Vallur Thermal Power Station (3X500 MW)

		(Amount in Rs Lakh)							
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29			
1	2	4	5	6	7	8			
1	Cost of Coal/Lignite	54791.92	54791.92	54791.92	54791.92	54791.92	54791.92		
2	Cost of Main Secondary Fuel Oil	767.54	767.54	767.54	769.64	767.54	767.54		
3	Fuel Cost								
4	Liquid Fuel Stock								
5	O & M Expenses	3780.58	3979.50	4188.25	4408.08	4639.17	4639.17		
6	Maintenance Spares	9073.40	9550.80	10051.80	10579.40	11134.00	11134.00		
7	Receivables	72106.27	72013.10	68888.10	69033.38	69388.52	69388.52		
8	Total Working Capital	140519.71	141102.86	138687.61	139582.42	140721.15	140721.15		
9	Rate of Interest	11.9000	11.9000	11.9000	11.9000	11.9000	11.9000		
10	Interest on Working Capital	16721.85	16791.24	16503.83	16610.31	16745.82	16745.82		

(Signature)

Petitioner

K YADAGIRI
Manager (EEM/G)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Computation of Energy Charges										Form-O(i)
Name of the Company NTECL Name of the Power Static Vallur Thermal Power Station (3X500 MW)										Form-O(i)
ADDITIONAL FORM										
Installed Capacity		2024-25	2025-26	2026-27	2027-28	2028-29				
No of Days in the year	Days	1500	1500	1500	1500	1500				1500
Sp. Oil consumption	ml/kwh	365	365	365	366	365				365
Auxiliary consumption	%	0.5	0.5	0.5	0.5	0.5				0.5
Heat Rate	Kcal/Kwh	6.69	6.69	6.69	6.69	6.69				6.69
Sp. Lime Stone Consumption	Kg/kwh	2,375.22	2,375.22	2,375.22	2,375.22	2,375.22				2,375.22
Computation of Variable Charges										
Variable Charge (Coal)	p/kwh	383.793	383.793	383.793	383.793	383.793				383.793
Variable Charge (Oil)	p/kwh	4.419	4.419	4.419	4.419	4.419				4.419
Total	p/kwh	388.21	388.21	388.21	388.21	388.21				388.21
Computation of Fuel Expenses for Calculation of IWC:										
ESO in a year	(MUs)	10421.79	10421.79	10421.79	10421.79	10421.79				10421.79
ESO for 50 days	(MUs)	1427.643	1427.643	1427.643	1427.643	1427.643				1427.643
Cost of coal for 50 Days	(Rs. Lakh)	54791.92	54791.92	54791.92	54791.92	54791.92				54791.92
Cost of oil for 2 months	(Rs. Lakh)	767.54	767.54	767.54	767.54	767.54				767.54
Energy Expenses for 45 days	(Rs. Lakh)	29850.04	135.43	130.45	218.85	358.40				358.40
2024-25										
Wtd. Avg. Price of Coal	Rs./MT	5007.59	5007.59	5007.59	5007.59	5007.59				5007.59
Wtd. Avg. GCV of Coal as received (after 85 kCal/Kg adjustment)	kCal/Kg	3314.75	3314.75	3314.75	3314.75	3314.75				3314.75
Wtd. Avg. Price of Secondary Fuel	Rs/KL	82464.56	82464.56	82464.56	82464.56	82464.56				82464.56
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9364.13	9364.13	9364.13	9364.13	9364.13				9364.13
2025-26										
Wtd. Avg. Price of Coal	Rs./MT	5007.59	5007.59	5007.59	5007.59	5007.59				5007.59
Wtd. Avg. GCV of Coal as received (after 85 kCal/Kg adjustment)	kCal/Kg	3314.75	3314.75	3314.75	3314.75	3314.75				3314.75
Wtd. Avg. Price of Secondary Fuel	Rs/KL	82464.56	82464.56	82464.56	82464.56	82464.56				82464.56
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9364.13	9364.13	9364.13	9364.13	9364.13				9364.13
2026-27										
Wtd. Avg. Price of Coal	Rs./MT	5007.59	5007.59	5007.59	5007.59	5007.59				5007.59
Wtd. Avg. GCV of Coal as received (after 85 kCal/Kg adjustment)	kCal/Kg	3314.75	3314.75	3314.75	3314.75	3314.75				3314.75
Wtd. Avg. Price of Secondary Fuel	Rs/KL	82464.56	82464.56	82464.56	82464.56	82464.56				82464.56
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9364.13	9364.13	9364.13	9364.13	9364.13				9364.13
2027-28										
Wtd. Avg. Price of Coal	Rs./MT	5007.59	5007.59	5007.59	5007.59	5007.59				5007.59
Wtd. Avg. GCV of Coal as received (after 85 kCal/Kg adjustment)	kCal/Kg	3314.75	3314.75	3314.75	3314.75	3314.75				3314.75
Wtd. Avg. Price of Secondary Fuel	Rs/KL	82464.56	82464.56	82464.56	82464.56	82464.56				82464.56
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9364.13	9364.13	9364.13	9364.13	9364.13				9364.13
2028-29										
Wtd. Avg. Price of Coal	Rs./MT	5007.59	5007.59	5007.59	5007.59	5007.59				5007.59
Wtd. Avg. GCV of Coal as received (after 85 kCal/Kg adjustment)	kCal/Kg	3314.75	3314.75	3314.75	3314.75	3314.75				3314.75
Wtd. Avg. Price of Secondary Fuel	Rs/KL	82464.56	82464.56	82464.56	82464.56	82464.56				82464.56
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9364.13	9364.13	9364.13	9364.13	9364.13				9364.13
Rate of Energy Charge										
Rate of Energy Charge from Sec. Fuel Oil/	(REC) _s = (Q _s) X P _s / (I _s - (AUX))	p/kwh	4.42	4.42	4.42	4.42				4.42
Heat Contribution from SFO / Alternate Fuel	(H _s) = (Os) _s X (GCV) _s	kcal/kwh	4.68	4.68	4.68	4.68				4.68
Heat Contribution from coal	(H _p) = (Os) _p X (GCV) _p	kcal/kwh	2,370.54	2,370.54	2,370.54	2,370.54				2,370.54
Specific Primary Fuel Consumption	(Op) _s = H _s / (GCV) _s		0.715	0.715	0.715	0.715				0.715
Rate of Energy charge from Primary Fuel (p/kwh)	(REC) _p / (I _s - (AUX))	(p/kWh)	383.79	383.79	383.79	383.79				383.79
Rate of Energy charge ex-bus	(REC) = (REC) _s + (REC) _p	(p/kWh)	388.21	388.21	388.21	388.21				388.21

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Summary of issue involved in the petition

Name of the Company :		NTECL				
Name of the Power Station :		Vallur Thermal Power Station (3X500 MW)				
1	Petitioner:	NTECL				
2	Subject	Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of Vallur Thermal power Station (3x500 MW) for the period from 01.04.2024 to 31.03.2029				
3	Prayers	i) Approve tariff of Vallur for the tariff period 01.04.2024 to 31.03.2029. ii) Allow the supplementary tariff for the tariff period 01.04.2024 to 31.03.2029. iii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries. iv) Allow reimbursement of Ash Transportation Charges (if any in future) directly from the beneficiaries on monthly basis, subject to true up. v) Allow reimbursement of additional O&M expenses for desalination plant vi) Allow the relaxation in norms for Auxiliary Power Consumption. vii) Pass any other order as it may deem fit in the circumstances mentioned above.				
4	Respondents:	As per Petition				
	Name of Respondents:	As per Petition				
	a.					
	b.					
	c.					
5	Project Scope					
	Cost					
	Commissioning					
	Claim					
	AFC	180275.69	179519.98	154172.75	155776.73	158231.70
	Capital cost (Average)	9,61,333.27	9,65,394.51	9,69,778.55	9,75,027.02	9,83,654.59
	Initial spare					
	NAPAF (Gen)	85%				
	Any Specific					

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

**SUPPLEMENTARY TARIFF FILING FORMS
(THERMAL-ECS)
(Appendix-IA)**

**FOR DETERMINATION OF SUPPLEMENTARY
TARIFF**

FOR

Vallur TPS (3x500 MW)

(From 01.04.2024 to 31.03.2029)

ECS SYSTEM



K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Summary of Supplementary Tariff (ECS)								PART-I FORM- 1		
Name of the Petitioner:		NTECL								
Name of the Generating Station:		Vallur TPS (3x500 MW)								
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)								
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)								
(Amount in Rs Lakh)										
S. No.	Particulars	Unit	Existing 2023-24	2024-25		2025-26		2026-27	2027-28	2028-29
				01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26			
1	2	3	4	5	6	7	8	9	10	11
1.1	Depreciation	Rs Lakh	130.15	132.45	2,112.00	3,696.00	4,752.00	4,752.00	4,752.00	4,752.00
1.2	Interest on Loan	Rs Lakh	118.45	119.26	2,268.73	3,817.06	4,653.51	4,246.92	3,840.33	3,433.74
1.3	Return on Equity	Rs Lakh	107.53	110.79	1,766.64	3,091.62	3,974.94	3,974.94	3,974.94	3,974.94
1.4	Interest on Working Capital	Rs Lakh	7.89	8.95	109.39	189.33	80.85	286.21	285.04	283.54
1.5	O&M Expenses	Rs Lakh	51.72	72.25	3244.44	5615.38	2397.81	1894.50	1993.96	2098.64
	Total	Rs Lakh	415.75	443.70	9501.21	16409.40	15859.11	15154.57	14846.28	14542.86
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton								
	(%) of Fuel Quantity	(%)								
2.2	Landed Fuel Cost Imported Coal						NA			
	(%) of Fuel Quantity									
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton					NA			
	(%) of Fuel Quantity	(%)								
2.4	Landed Fuel Cost Imported Coal other than FSA						NA			
	(%) of Fuel Quantity									
2.5	Secondary fuel oil cost	Rs/Unit								
	Energy Charge Rate ex-bus (Rs/kWh)	Rs/Unit								
(Petitioner)										

KW

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Statement showing claimed capital cost – (Supplementary Tariff - ECS)						PART-I FORM-1(I)		
Name of the Petitioner:		NTECL						
Name of the Generating Station:		Vallur TPS (3x500 MW)						
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)						
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)						
(Amount in Rs Lakh)								
S. No.	Particulars	2024-25		2025-26		2026-27	2027-28	2028-29
		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26			
1	2	3	4	5	6	7	8	9
1	Opening Capital Cost	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000
2	Add: Addition during the year/period	-	-	-	-	-	-	-
3	Less: De-capitalisation during the year/period	-	-	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-	-	-
6	Closing Capital Cost	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000
7	Average Capital Cost	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000

(pw)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Statement showing Return on Equity at Normal Rate (Supplementary Tariff - ECS)						PART-I FORM-1(IIA)		
Name of the Petitioner:		NTECL						
Name of the Generating Station:		Vallur TPS (3x500 MW)						
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)						
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)						
(Amount in Rs Lakh)								
S. No.	Particulars	2024-25		2025-26		2026-27	2027-28	2028-29
		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26			
1	2	5				6	7	8
	Return on Equity							
1	Gross Opening Equity (Normal)	752.57	12,000	21,000	27,000	27,000	27,000	27,000
2	Less: Adjustment in Opening Equity	-	-	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-	-	-
4	Net Opening Equity (Normal)	752.57	12,000	21,000	27,000	27,000	27,000	27,000
5	Add: Increase in equity due to addition during the year / period	-	-	-	-	-	-	-
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	-	-	-	-	-	-	-
10	Net closing Equity (Normal)	752.57	12,000	21,000	27,000	27,000	27,000	27,000
11	Average Equity (Normal)	752.57	12,000	21,000	27,000	27,000	27,000	27,000
12	Rate of ROE	14.722%	14.722%	14.722%	14.722%	14.722%	14.722%	14.722%
13	Total ROE	110.79	1,766.64	3,091.62	3,974.94	3,974.94	3,974.94	3,974.94
(Petitioner)								

(PW)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Name of the Petitioner: NTECL
Name of the Generating Station: Vallur TPS (3x500 MW)
Commissioning Date of CMS (Actual): 23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)
Commissioning Date of FGD (Anticipated): 01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)

ECS Characteristics

Name of the Petitioner	NTECL
Name of the Generating Station	Simhadri Super Thermal power Station Stage-II
Unit(s)/Block(s)/Parameters	2x500 MW
Installed Capacity (MW) - Coal Based	1000 MW
Actual COD (of CMS)	23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)
Anticipated COD (of FGD)	01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)
Type of System (Nox)	Combustion Modification System (CM System)
Name of CM Manufacturer	M/s GE Power India Limited
Name of FGD Manufacturer	M/s TATA Power Limited
Special Technological Features	Details shall be provided with ECS petition to be filed
Any other special features	
Nox Control (Combustion Modification System)	
....	
....	
....	
....	
....	


PETITIONER

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Normative parameters considered for tariff computations (Supplementary Tariff - ECS)								PART-I		
								FORM-3		
Name of the Petitioner:		NTECL								
Name of the Generating Station:		Vallur TPS (3x500 MW)								
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)								
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)								
								Year Ending March		
Particulars	Unit	2024-25		2025-26		2026-27	2027-28	2028-29		
		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26					
(1)	(2)	(5)				(6)	(7)	(8)		
Base Rate of Return on Equity	%	12.15	12.15	12.15	12.15	12.15	12.15	12.15		
Effective Tax Rate	%	17.472	17.472	17.472	17.472	17.472	17.472	17.472		
Rate of ROE	%	14.722	14.722	14.722	14.722	14.722	14.722	14.722		
Target Availability	%	85%								
Auxiliary Energy Consumption	%	6.69	7.02	7.36	7.69	7.69	7.69	7.69		
Gross Station Heat Rate	kCal/kWh	2243.03								
Specific Fuel Oil Consumption	ml/kWh	0.5								
Cost of Coal/Lignite for WC	in Days	NA								
Cost of Main Secondary Fuel Oil for WC	in Months	NA								
Fuel Cost for WC	in Months	NA								
Liquid Fuel Stock for WC	in Months	NA								
O & M expenses	% of Capital Cost	2								
Maintenance Spares for WC	% of O&M	20								
Receivables for WC	in Days	45								
Storage capacity of Primary fuel	MT	NA								
SBI 1 Year MCLR Plus 350 basis points as on	%	12.15	12.15	12.15	12.15	12.15	12.15	12.15		
Blending ratio of domestic coal/imported coal										


 Petitioner

Note: ECS separate petition shall be filed after actual COD of FGD

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company L
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600

Calculation of O&M Expenses (Supplementary Tariff - ECS)						FORM-3A ADDITIONAL FORM		
Name of the Petitioner:		NTECL						
Name of the Generating Station:		Vallur TPS (3x500 MW)						
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)						
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)						
S.No.	Particulars	2024-25		2025-26		2026-27	2027-28	2028-29
		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26			
1	2	6	7	8	9	10	11	12
	No. of days (period)	275	90	91	274	365	366	365
	No. of days (in full year)	365	365	365	365	365	366	365
1	O&M expenses under Reg.35(1)(7)							
1a	Normative O&M expenses- ECS (for the period)	54.44	800.00	1400.00	1800.00	1894.50	1993.96	2098.64
1b	Normative O&M expenses- ECS (Annualised)	72.25	3244.44	5615.38	2397.81	1894.50	1993.96	2098.64
2	O&M expenses under Reg. 35(6)							
2a	Water Charges	-	-	-	-	-	-	-
2b	Security expenses	-	-	-	-	-	-	-
	Total O&M Expenses	72.25	3244.44	5615.38	2397.81	1894.50	1993.96	2098.64


Petitioner

31-03-2024	31-12-2024	31-03-2025	30-06-2025
31-12-2024	31-03-2025	30-06-2025	31-03-2026
275	90	91	274

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

PART-I
FORM-9A
Additional Form

Yearwise Statement of Additional Capitalization after COD (Supplementary Tariff - ECS)

Name of the Petitioner: NTECL
 Name of the Generating Station: Vallur TPS (3x500 MW)
 Commissioning Date of CMS (Actual): 23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)
 Commissioning Date of FGD (Anticipated): 01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)
 For Financial Year

Sl. No.	Head of Work/ Equipments	Amount in Rs Lakhs										Regulations under which claimed	Justification
		2024-25		2025-26		2026-27	2027-28	2028-29	2029-30	2030-31	2031-32		
		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26								
1	2	5				6	7	8			9	10	
1	Works related to Combustion Modification System and WFGD System	-	-	-	-	-	-	-	-	-	-	-	
Total Add Cap		-	-	-	-	-	-	-	-	-	-	-	
2	Discharge of liability	-	-	-	-	-	-	-	-	-	-	-	
Total Add. Cap. Claimed including discharge of liabilities (1+2)		-	-	-	-	-	-	-	-	-	-	-	


(Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Financing of Additional Capitalisation (Supplementary Tariff - ECS)

**PART-I
FORM-10**

Name of the Petitioner: NTECL
 Name of the Generating Station: Vallur TPS (3x500 MW)
 Commissioning Date of CMS (Actual): 23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)
 Commissioning Date of FGD (Anticipated): 01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)

Financial Year (Starting from COD)	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9	10	12
Amount capitalised in Work/Equipment	Additional capitalisation is finance in Debt:Equity ratio of 70:30									
Financing Details										
Loan-1										
Loan-2										
Loan-3 and so on										
Total Loan										
Equity										
Internal Resources										
Others (Pl. specify)										
Total										


 Petitioner

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Channarayana, Tamil Nadu-605 013

Calculation of Depreciation (Supplementary Tariff - ECS)

Name of the Petitioner:		NTECL			
Name of the Generating Station:		Vallur TPS (3x500 MW)			
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)			
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)			
Sl.No.	Name of the Assets	Gross Block as on 31.03.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	(Amount in Rs Lakh)	
				Depreciation Amount for each period up to 31.03.29	
1	Plant & Machinery	2,508.57	5.28%		2024-25 & onwards
	TOTAL	2,508.57			132.45
	Weighted Average Rate of Depreciation (%)				5.28

(fw)

K YADAGIRI

Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.

Vallur Thermal Power Station


P.O.: Vellivoyal Chavadi, Chennai-600 103.

Statement of Depreciation (Supplementary Tariff - ECS)								PART-I	
								Form-12	
Name of the Petitioner:		NTECL							
Name of the Generating Station:		Vallur TPS (3x500 MW)							
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)							
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)							
(Amount in Rs Lakh)									
S. No.	Particulars	Existing 2023-24	2024-25		2025-26		2026-27	2027-28	2028-29
			01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26			
1	No of Days	366	181	93	91	365	365	366	365
	2	3	4	5	6	7	8	9	10
1	Opening Capital Cost	2,421.50	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000
2	Closing Capital Cost	2,508.57	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000
3	Average Capital Cost	2,465.04	2,508.57	40,000	70,000	90,000	90,000	90,000	90,000
4	Freehold land	-	-	-	-	-	-	-	-
4(a)	IT equipments and software#	-	-	-	-	-	-	-	-
5	Rate of depreciation*	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28
6	Depreciable value	2,218.53	2,257.72	36,000	63,000	81,000	81,000	81,000	81,000
7.	Balance useful life at the beginning of the								
8	Remaining depreciable value	2,052.75	1,961.78	35,675.69	62,159.61	79,260.43	78,113.86	73,361.86	68,596.85
9	Depreciation (for the period)	130.15	28.38	516.08	899.19	1,146.56	4,752.00	4,765.02	4,739.02
10	Depreciation (annualised)	130.15	132.45	2,112.00	3,696.00	4,752.00	4,752.00	4,752.00	4,752.00
11.	Cumulative depreciation at the end of the period	295.93	324.31	840.39	1,739.57	2,886.14	7,638.14	12,403.15	17,142.17
12.	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	-	-	-	-	-	-	-	-
13.	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-	-	-	-
14.	Net Cumulative depreciation at the end of the period	295.93	324.31	840.39	1,739.57	2,886.14	7,638.14	12,403.15	17,142.17


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 10

**Abstract of Capital Cost Estimates and Schedule of Commissioning for
Combustion Modification Project**

Name of the Petitioner	NTECL	
Name of the Generating Station	Vallur TPS (3x500 MW)	
<u>Capital Cost Estimates</u>		
Board of Director/ Agency approving the Capital cost estimates:	Shall be submitted at the time of filing after ODe of FGD	
Date of approval of the Capital cost estimates:	Present Day Cost	Completed Cost
	Shall be submitted at the time of filing after ODe of FGD	
<u>Capital cost Including IDC, IEDC, FC, FERV, Hedging Cost & WCM</u>		
Foreign Component, if any (In Million US \$ or the relevant Currency) [in Rs Crs]	Shall be submitted at the time of filing after ODe of FGD	
Domestic Component (Rs. Crs)		
Capital cost Including IDC, IEDC & FC (Rs. Crs)		
<u>Schedule of Commissioning</u>		
Date of Commissioning of CM in Unit-1	23.02.2021 (Actual)	
Date of Commissioning of CM in Unit-2	16.10.2021 (Actual)	
Date of Commissioning of CM in Unit-3	12.09.2022 (Actual)	
Date of Commissioning of FGD in Unit-1	01.01.2024 (Anticipated)	
Date of Commissioning of FGD in Unit-2	01.04.2024 (Anticipated)	
Date of Commissioning of FGD in Unit-3	01.07.2024 (Anticipated)	
 (Petitioner)		

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Capital Cost for ECS (FGD + CM) (Supplementary Tariff - ECS)										PART-I FORM- B
Name of the Petitioner: NTECL Name of the Generating Station: Vallur TPS (3x500 MW) Commissioning Date of CMS (Actual): 23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3) Commissioning Date of FGD (Anticipated): 01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)										(Amount in Rs. Lakh)
Sl. No.	Break Down	As per Investment Approval	Anticipated Capitalisation as on date of Operationalization of FGD in Unit-1 (01.01.2025) [CMS+U1 FGD]	Liabilities corresponding to Capitalisation shown in Column (4)	Anticipated Capitalisation as on date of Operationalization of FGD in Unit-2 (01.04.2025) [CMS+U1&U2 FGD]	Liabilities corresponding to Capitalisation shown in Column (6)	Anticipated Capitalisation as on date of Operationalization of FGD in Unit-3 (01.07.2025) [CMS+U1,U2&U3 FGD]	Liabilities corresponding to Capitalisation shown in Column (8)	Specific Reasons for Variation	
1	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
A	Mechanical Works including structure		40,000	-	70,000	-	90,000			
a1.	Plant & Buildings		Included in above		Included in above		Included in above			
a2.	Plant and Machinery		40,000	-	70,000	-	90,000			
B	Plant and Machinery									
C	IDC, FC, IEDC, FERV & Hedging Cost	1,16,200								
1	Interest During Construction									
2	Insurance Charges, IFC									
3	Insurance Charges during Construction									
4	Foreign Exchange Rate Variation (FERV)									
5	Hedging Cost									
	Total of IDC, FC, IEDC, FERV & Hedging Cost		Included in above		Included in above		Included in above			
	Capital cost of CM System including IDC, FC, FERV & Hedging Cost	1,16,200	40,000	-	70,000	-	90,000			

(Petitioner)


NOTE: The actual details of capitalization and other relevant details shall be provided along with the ECS petition to be filed after commercial declaration of FGD as per Regulation 29.

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Calculation of Interest on Normative Loan (Supplementary Tariff - ECS)								PART 1 FORM- N	
Name of the Petitioner:		NTECL							
Name of the Generating Station:		Vallur TPS (3x500 MW)							
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)							
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)							
(Amount in Rs Lakh)									
S. No	Particulars	Existing 2023-24	01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9	10
1	Gross Normative loan – Opening	1,695.05	1,756.00	28,000.00	49,000.00	63,000.00	63,000.00	63,000.00	63,000.00
2	Cumulative repayment of Normative loan up to previous year	165.78	295.93	428.39	2,540.39	6,236.39	10,988.39	15,740.39	20,492.39
3	Net Normative loan – Opening	1529.27	1,460.07	27,571.61	46,459.61	56,763.61	52,011.61	47,259.61	42,507.61
Add-Cap									
4	Add: Increase due to addition during the year / period	60.95	-	-	-	-	-	-	-
5	Less: Decrease due to de-capitalisation during the year / period	-	-	-	-	-	-	-	-
6	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-	-	-
7	Add: Increase due to discharges during the year / period	-	-	-	-	-	-	-	-
	Less: Repayment of Loan	130.15	132.45	2,112.00	3,696.00	4,752.00	4,752.00	4,752.00	4,752.00
8	Net Normative loan - Closing	1,460.07	1,327.61	25,459.61	42,763.61	52,011.61	47,259.61	42,507.61	37,755.61
9	Average Normative loan	1494.669	1,393.84	26,515.61	44,611.61	54,387.61	49,635.61	44,883.61	40,131.61
10	Weighted average rate of interest	7.9246	8.5562	8.5562	8.5562	8.5562	8.5562	8.5562	8.5562
11	Interest on Loan	118.45	119.26	2,268.73	3,817.06	4,653.51	4,246.92	3,840.33	3,433.74


 (Petitioner)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Calculation of Interest on Working Capital (Supplementary Tariff - ECS)								PART 1 FORM- O	
Name of the Petitioner:		NTECL							
Name of the Generating Station:		Vallur TPS (3x500 MW)							
Commissioning Date of CMS (Actual):		23.02.2021 (U-1), 16.10.2021 (U-2) & 12.09.2022 (U-3)							
Commissioning Date of FGD (Anticipated):		01.01.25 (U-1), 01.04.25 (U-2) & 01.07.25 (U-3)							
(Amount in Rs Lakh)									
S. No	Particulars		01.4.24 to 31.12.24	U-1 ODe to 31.03.25	U-2 ODe to 30.06.25	U-3 ODe to 31.03.26	2026-27	2027-28	2028-29
1	2		5						
	No of days (during the period)	Days	181	93	91	365	365	366	365
1	Cost of Limestone/Reagent Stock	20 days	Shall be provided at the time of filing ECS petition (on audited figures on FGD capitalisation) after FGD commercial operation						
	Cost of Limestone/Reagent Advance Payment	30 Days							
2	Receivables	45 days	54.70				1,868.37	1,830.36	1,788.06
3	O & M Expenses	1 month	6.02	270.37	467.95	199.82	157.88	166.16	174.89
4	Maintenance Spares	@20%	14.45	648.89	1,123.08	479.56	378.90	398.79	419.73
5	Total Working Capital**		75.17	919.26	1,591.03	679.38	2,405.15	2,395.32	2,382.67
6	Rate of Interest	%	11.90	11.90	11.90	11.90	11.90	11.90	11.90
7	Interest on Working Capital		8.95	109.39	189.33	80.85	286.21	285.04	283.54
 (Petitioner)									

** The total working capital is excluding the cost of limestone. The details shall be provided along with petition to be filed for ECS petition (on audited figures on FGD capitalisation) after FGD commercial operation

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.



Support ▾

Windows XP support has ended

Windows XP, Windows 10

You're invited to try Microsoft 365 for free



Unlock now

(pw)

K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

What is Windows XP end of support?

Microsoft provided support for Windows XP for the past 12 years. But the time came for us, along with our hardware and software partners, to invest our resources toward supporting more recent technologies so that we can continue to deliver great new experiences. As a result, technical assistance for Windows XP is no longer available, including automatic updates that help protect your PC.

Microsoft has also stopped providing Microsoft Security Essentials for download on Windows XP. If you already have Microsoft Security Essentials installed, you'll continue to receive antimalware signature updates for a limited time. However, please note that Microsoft Security Essentials (or any other antivirus software) will have limited effectiveness on PCs that do not have the latest security updates. This means that PCs running Windows XP will not be secure and will still be at risk for infection.

What happens if I continue to use Windows XP?

If you continue to use Windows XP now that support has ended, your computer will still work but it might become more vulnerable to security risks and viruses. Internet Explorer 8 is also no longer supported, so if your Windows XP PC is connected to the Internet and you use Internet Explorer 8 to surf the web, you might be exposing your PC to additional threats. Also, as more software and hardware manufacturers continue to optimize for more recent versions of Windows, you can expect to encounter more apps and devices that do

not work with Windows XP.

What does it mean if my version of Windows is no longer supported?

Which version of Windows am I running?

How do I stay protected?

To stay protected now that support has ended, you have two options:

Upgrade your current PC

Very few older computers are able to run Windows 10, which is the latest version of Windows. We recommend that you check out the Windows 10 specifications page to find out if your PC meets the system requirements for Windows 10. For more detailed information, read the FAQ.

Get a new PC

If your current PC can't run Windows 10, it might be time to consider shopping for a new one. Be sure to explore our great selection of new PCs. They're more powerful, lightweight, and stylish than ever before—and with an average price that's considerably less expensive than the average PC was 14 years ago.

Find your perfect PC



 SUBSCRIBE RSS FEEDS



K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Need more help?

Want more options?

Explore subscription benefits, browse training courses, learn how to secure your device, and more.



Microsoft 365
subscription
benefits



Microsoft 365
training



Microsoft security



Accessibility center

Was this information helpful?

Yes

No

What's new

- Surface Laptop Studio 2
- Surface Laptop Go 3
- Surface Pro 9
- Surface Laptop 5
- Microsoft Copilot
- Copilot in Windows
- Explore Microsoft products
- Windows 11 apps

Microsoft Store

- Account profile
- Download Center
- Microsoft Store support
- Returns
- Order tracking
- Certified Refurbished
- Microsoft Store Promise
- Flexible Payments

Education

- Microsoft in education
- Devices for education
- Microsoft Teams for Education
- Microsoft 365 Education
- How to buy for your school
- Educator training and development
- Deals for students and parents
- Azure for students

Business

- Microsoft Cloud
- Microsoft Security
- Dynamics 365
- Microsoft 365

Developer & IT

- Azure
- Developer Center
- Documentation
- Microsoft Learn

Company

- Careers
- About Microsoft
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K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-60

Microsoft Power Platform

Microsoft Tech Community

Investors

Microsoft Teams

Azure Marketplace

Diversity and inclusion

Copilot for Microsoft 365


AppSource


Accessibility

Small Business

Visual Studio

Sustainability

 English (United States)

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ಭಾರತ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India Undertaking)
 ELECTRONICS DIVISION

P.B.No 2606, Mysore Road, Bangalore - 560 026

PHONE : 080-26998281

MOBILE : 9845696568

E-MAIL : prakashdevadas@bhel.in

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

Dated 21/09/2022

Sub: Recommendation for HMI Upgrade

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

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

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

K YADAGIRI

Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 102



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Limited

(A Government of India Undertaking)
ELECTRONICS DIVISION


P.B.No 2606, Mysore Road, Bangalore - 560 026

PHONE : 080-26998281

MOBILE : 9845696568

E-MAIL : prakashdevadas@bhel.in

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


Digitally signed by Prakash Devadas
DN: cn=Prakash Devadas, o=BHEL,
ou=EDN,
email=prakashdevadas@bhel.in, c=IN
Date: 2022.09.21 17:12:12 +05'30'

Prakash D
AGM (CE-Engg-I)

(KW)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

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

FW

Honeywell

Honeywell Automation India Ltd.
56 & 57, Hadapsar Industrial Estate,
Pune 411 013, Maharashtra, India
Website: www.honeywell.com

Ref: Microsoft OS & DELL Hardware End of Support

20-JULY-2021

To,

**M/s. NTPC-TAMIL NADU ENERGY COMPANY LTD.
Vallur Thermal Power Project PO,
Vellivoyal Chavadi,
Tiruvallur Dist-Chennai- 600 103.**

Subject: Risks to Honeywell Systems Running Unsupported Microsoft® XP Operating Systems & Obsolete DELL Servers and Station Hardware.

Respected Sirs',

As you may be aware, Microsoft had discontinued its support for systems running on Windows XP. This means that while the operating system may continue to operate beyond the end of life date, **Microsoft will not release new security updates, security hot fixes, provide technical phone support, or online technical content updates.** Without this support, the XP operating system could become increasingly vulnerable to cyber security threats.

Honeywell monitors risks to its open systems and strives to offer its customers with beneficial paths forward. The withdrawal of support from Microsoft for the XP operating system means that over time, the system could become increasingly vulnerable to significant cyber security risks. These threats may result, among other things, in a virus or other malware that exploits the fact that the system is not patched and could result in Loss of View (LOV) or Loss of Control (LOC) situations.

Now, more than ever, it is significantly easier for attackers to successfully compromise Windows XP-based systems via unpatched vulnerabilities. Antivirus software and other security mitigations are severely disadvantaged and may not have the ability to protect the Windows XP platform.

Our records indicate that your site has an Experion® PKS system that utilizes the Microsoft Windows XP and phased out Dell hardware. To reduce the risks and unplanned downtime, Honeywell has developed system modernization solutions to address Windows XP discontinuation, Dell phased out hardware and protect your system.

DELL Hardware End of Life:

The existing Dell Servers T610 and stations T5500 running at M/s.NTECL, Vallur plant are now not supported and obsolete, currently the suitable spares are not available.

Also presently the Server and station machines suitable for Windows XP/Windows Sever 2008 OS are not available anymore.

Hence, we recommend to migrate with latest supported platforms.



K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Registered Office: 56 & 57, Hadapsar Industrial Estate, Pune 411 013, Maharashtra, India
E-mail: India.Communications@honeywell.com | Website: www.honeywellautomationindia.com

Honeywell

Honeywell Automation India Ltd.
56 & 57, Hadapsar Industrial Estate,
Pune 411 013, Maharashtra, India
Website: www.honeywell.com

Future actions:

1. Move to a supported MS Operating System (Microsoft Windows 10 & Server 2016) by migrating to Experion Server and Station by upgrading to Experion R5xx.
2. Hardware refresh of DELL Servers and Stations with latest compatible machines.
3. Identify and prioritize industrial and OS cyber security risks with an Industrial Cyber Security Assessment to help identify and prioritize cyber security vulnerabilities recommended solutions.


Honeywell looks forward to working with you to ensure that your system remains reliable and secure well, beyond the Dell and Microsoft End of Support deadline by migrating to latest supported platforms.

Please feel free to contact us for any further clarification and we will be glad to explain in detail on the path forward & support planning.

Thanking you and assuring our best services at all time.

Yours truly,

For Honeywell Automation India Limited,



Shailesh Garbhe
Director – Lifecycle Solutions & Services
(HPS- Honeywell Process Solutions)



K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

MEGGITT

To whom it may concern

16 June 2015

Discontinuation of the VM600 CMS software and CMC16 / IOC16T cards

Dear Customer

Meggitt has always been committed to providing the best technology for industrial machinery protection and condition monitoring systems. We are constantly improving our products and adding new functionality, with new software and firmware releases published on a regular basis.

Since the era of solutions based on System 501 or VM600 CMS/CMC16, our products have evolved considerably, so we recommend that these existing systems should be replaced by the latest generation VibroSight® software and the new VM600 XMx16 cards.

Note: The new generation of VM600 XMx16/XIO16T condition monitoring card pairs is fully compatible with the existing VM600 racks and MPC4/IOC4T machinery protection card pair.

Why upgrade?

Meggitt has developed and proven in the field an improved condition monitoring solution which offers several key advantages over previous generation systems:

- State-of-the-art technology
- Stronger system capabilities
 - Increased amplitude resolution of 22 bits vs. 13 bits
 - Up to 6400 lines of spectral resolution
 - Deeper data buffers allowing more pre-event, and pre-trip data to be captured in case of sudden change in the machinery being monitored
 - Data processing at card level (higher scalability, faster response time to alarms)
 - Much faster data acquisition and storage rates available
- Improved user-friendly interface with powerful high-resolution plots
- Integrated tools to handle large amounts of data on a permanent level
- Simplified network access and open interfaces.

We shall continue to do our best to support existing VM600 CMS/CMC16 condition monitoring systems. However, due to component obsolescence and regulation, Meggitt is now obliged to set a "cut-off date" after which we can no longer guarantee that spare parts will be available. It has been decided not to promote the VM600 CMS/CMC16 system after July 2015, although it will still be provided for already planned and ongoing projects shipped by July 2017.

Meggitt will continue to provide dedicated support and spares, as long as we can source the parts required for their production and repair. Accordingly, we will organise a "last buy" campaign to provide our customers with a final opportunity to replenish their spare parts stock and extend the life of existing systems.



K YADAGIRI
Manager (EEMG)

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Meggitt Sensing Systems
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Meggitt SA trading as Meggitt Sensing Systems.

Tel: +41 26 407 1111
Fax: +41 26 407 1660
www.meggittsensing.com
www.meggitt.com

How to migrate?

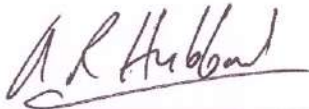
To bring an existing condition monitoring system completely up to date, we recommend replacing a System 501 or VM600 CMS/CMC16 with the latest VM600 XMV16 or XMC16 cards, as appropriate, and the VibroSight software. To facilitate such upgrades, Meggitt offers special pricing.

In addition, a data migration tool will be available in Q1/2016. This tool will allow the transfer of data from the VM600 CMS software into the new VibroSight software in order to enable the analysis of data acquired by both generations of condition monitoring system using VibroSight.

It is also possible to run VibroSight and CMS on the same computer. To minimise disruption and maintain the benefits of continued operation of a monitoring system at customer sites, our Customer Support group can provide consulting and upgrade services from a simple module or card check to a full system upgrade.

Please do not hesitate to contact your Meggitt representative, who will help you to specify a latest generation condition monitoring system using the VibroSight software and VM600 XMx16 cards.

Yours sincerely



Andrew Hubbard

Product Management & Customer Support Director



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SHINKAWA

SHINKAWA Electric Co., Ltd.
Shinkojimachi Building 3F, 4-3-3 Koji-machi, Chiyoda-ku, Tokyo 102-0083 Japan
TEL +81-3-3263-4417 FAX +81-3-3262-2171

24 Aug. 2015

End of Sale Announcement for AP-10 Series Products

Dear Valued Partners,

Please be informed that we have decided to discontinue AP-10 series products.

This was due to the short supply or obsoleting many of the parts used with the products by sub-venders as the products have been in the market for a long time since around 1990.

The products/parts in question are as below;

- 1) AP-10A (Sampling card)
- 2) AP-10H (Housing)
- 3) AP-10Y (Junction box)
- AP-10B (Alarm contact input card) & AP-10C (Process data card) had already been obsolete for some time now.

We will stop taking orders for these on 31 Jan. 2016. EOS will be informed separately.

As a replacement, better functions and performances are available with DAQpod and VM-7B. Please start promoting and proposing DAQpod and VM-7B with analysis functions as from now on.

Should you have any questions, please let us know.

Yours faithfully,

Tom Fujii
General Manager,
Sensor Technology Department,
Shinkawa Electric Co., Ltd.

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.



Customer: NTCL Vallur
 Project: Upgradation of MMI System
 RFQ No: Email Reference 24th May, 2022

ABB Offer Reference
 PAEN/2022/ECS/4377/ZS/RJ/1,R1
 19th June 2022

1.0 JOB SPECIFICATION

The subject document is the Techno Commercial offer for 'Upgradation of the existing ABB Make 800xA based MMI system systems at NTECL (3 X 500MW) Vallur power plant.'

2.0 BRIEF DESCRIPTION

The Vallur Thermal Power plant of NTPC, Tamil Nadu Energy Company Ltd, consists of 11kV , 3.3kV (HT) and 415V (LT) switchboards with Numerical protection relays communicating with Data Concentrator and HMI through IEC 61850 switches. It has a provision for integration with DDCMIS system (other make) over OPC.

ABB make 800xA is used as the Master Supervisory Data Acquisition system and is in the control room. 800xA is designed based upon open system architecture and remote network communication.

The existing system of ABB make 800xA system of 5.0 Version and having Windows server 2003 OS., Since the service support for windows OS is obsolete, we propose complete hardware (IT) and software upgradation

3.0 BASIS OF OFFER

- Offer is based on the FDS and system configuration shared with us dated 24.05.2022.
- We have considered required number of tags as per the existing relays quantity.
- Additionally new relays shall be interfaced after completion of upgradation.

4.0 EXCLUSIONS

- Networking cable for relays, converter etc., not considered in present.,
- Tested relay files of ABB and other make relays (.ICD) shall be given to us.
- No additional software's, only ABB SCADA system software considered for upgradation. No other additional application, functionality considered etc.,
- Any changes required at relay side., NTECL /respective vendor scope.
- We have considered only ABB relays for relay configuration for IEC61850 relays, Other make relays software shall be provided by NTECL ., We shall install the same in newly quoted workstation.
- For new relays integration we have considered only application portion., we assume that required hardware's (Ethernet switches, LIU, patch cable) for interfacing with SCADA system is already available. And NTECL will provide the final tested files for application development.
- Supply, fabrication and erection of any cable trays and cabinet base frames.
- Erection of cabinets
- Any civil, mechanical work not stated in this offer.

5.0 TECHNICAL REQUIREMENT FOR MMI/SCADA SYSTEM

The functionalities proposed in the MMI/SCADA system are listed below,

- Monitoring Functions
- Customized reports
- Alarms
- Events

1. MONITORING FUNCTIONS

It is proposed to provide monitoring of all the 11kV , 3.3kV feeders status and measurement



Customer: NTCL Vallur
Project: Upgradation of MMI System
RFQ No: Email Reference 24th May, 2022

ABB Offer Reference
PAEN/2022/ECS/4377/ZS/RJ/1.R1
19th June 2022

- Circuit breaker status monitoring (CB in service & ON)
- Measurement

2. CONTROL FUNCTION

- Not enabled

6.0 REDUNDANCIES AND BACKUP

Redundancy Offered

System Network	Redundant (RING topology)
Network switches (aggregation switches)	Redundant
System Servers	Redundant

7.0 CABINET

The cabinets shall be free standing enclosed type with uniform height and depth. The maximum height shall be limited to 2100mm.. All cabinets shall be with lockable front and rear doors and bottom cable entry and with gasket and fittings to keep out moisture, corrosive salts, dust & gases. All doors, drawers, trays and other weight supporting parts shall be fabricated of metal adequately reinforced to limit vibration and ensure plane surfaces and shall be well-housed and tidy in appearance. The final color shade shall be RAL- 7035/Equivalent

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

RE: 24V DC Eltek Charger spares regarding

Rajib.Gupta <Rajib.Gupta@deltaww.com>

Tue 30-04-2024 12:21

To: दीपक कुमार साँवल <DEEPAKSANWAL@NTPC.CO.IN>

Cc: AJAY <AJAYK@NTPC.CO.IN>; Subhash Chandra Ranjan <SCRANJAN@NTPC.CO.IN>

📎 1 attachments (92 KB)

24VDC CHARGER eltek details.doc;

CAUTION: This Email has been sent from outside the Organization. Unless you trust the sender, Don't click links or open attachments as it may be a Phishing email, which can steal your Information and compromise your Computer.

Dear Sir,

Refer to your email subject enquiry, I wish to inform you that all VALLUR supplied charger life is expired & product is obsolete.

It's my advised to replace the battery charger with new charger.

Regards,

Rajib K Gupta
98996661113

From: दीपक कुमार साँवल <DEEPAKSANWAL@NTPC.CO.IN>**Sent:** 30 April 2024 12:03**To:** Rajib.Gupta <rajib.gupta@deltaww.com>**Cc:** AJAY <AJAYK@NTPC.CO.IN>; Subhash Chandra Ranjan <SCRANJAN@NTPC.CO.IN>**Subject:** 24V DC Eltek Charger spares regarding

CAUTION: This is an external email! Do not click links or open attachments unless you recognize the sender and know the content is safe. Otherwise, please submit as a phishing mail.

Dear Sir,

Attached, please find the serial numbers of the 24V DC chargers supplied by Eltek and installed at NTECL Vallur.

Kindly confirm if spare support for all components of these chargers (including rectifiers, controllers, etc.) is still available for supply?

With Regards,
Deepak Sanwal
AGM(C&I)
+91 9650998211 (Mob.)

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 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

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(kw)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
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भारत सरकार/ Government of India
विद्युत मंत्रालय/ Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority
विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग
Power System Engineering & Technology Development Division

Date: 20.09.2023

सेवा में,

<as per attached list>

विषय: Installation of Online Insulating Oil Dry Out System for Transformer of 400 kV and above Voltage class-reg.

महोदया/महोदय

A reliable and quality power supply is an essential requirement in today's environment. The availability of secure and reliable quality power supply is not only essential but also instils the confidence in the minds of the investors from over the block to establish their production houses and institutions in the country. A firm power supply also improves the rating of India in Ease of Doing Business (EODB).

The moisture content over a permissible limit in the insulating oil of the transformers/reactors is mainly responsible for the deteriorating dielectric properties of the oil. The moisture-laden deteriorated oil in the transformer/reactor is the major cause of poor insulating properties of the insulating and cooling oil, such oil leads to the failure of transformers/reactors.

In view of the above, it is necessary that the moisture contents in the transformers be continuously monitored and controlled through proper means. The "On-Line Transformer Oil Drying Out System (One Line TODOS)" installed on the transformer measures and controls the moisture contents in the transformer oil to the desired level. The system is permanently installed with the Transformer and it continuously keeps on removing the moisture while the transformer/reactor is in the charged stage, till the user-defined pre-set moisture level condition is attained. The transformer/reactor oil is circulated through a series of Cylinders filled with specially designed cartridges that absorb moisture as well as remove solid contaminants from the oil. This process removes moisture from the Transformer/ Reactor oil as well as the "cellulose insulation". During the filtration process moisture PPM level is continuously monitored

Online Insulating Oil Dry Out System is capable of returning meaningful benefits for a wet transformer which cannot be spared from its normal duty cycle since it does not require transformer outage, the downtime is avoided while the moisture removal is still in progress. The benefits of Online Insulating Dry out Systems for transformers are well-

KW

K YADAGIRI
 Manager (EEMG)

I/30428/2023

documented including enhanced reliability, reduced maintenance costs, and prolonged transformer lifespan.

Clause 46(1)(a) of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 states that "Power transformer shall be designed, manufactured, tested and commissioned as per Central Electricity Authority's "Standard Specifications and Technical Parameters for Transformers and reactors (66 kV and above)". Section-2.15 of Chapter-6 and Annexure-U of Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above), specifies the use of an Online Insulating Oil Dry Out System for 400 kV and above class of Transformers and Reactors.

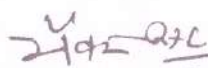
However, representations have been received in CEA that Utilities are not following the requirement of the installation of an Online Insulating Oil Dry Out System. It is highlighted here that Transformers are the main pillar of the Power System. Any failure of the transformer would have an adverse impact on the power supply in the system. Therefore, necessary equipment which are crucial for the health and reliability of the Transformer needs to be mandatorily installed.

In fact, for the total health monitoring system of the transformer and other associated equipment, an online electrical asset monitoring system need to be installed that can monitor all medium voltage and high voltage electrical assets like GIS, AIS, Breakers, Power Cables including Transformers for condition-based maintenance. TODOS system shall be capable of monitoring and controlling the moisture contents of the oil in the transformer and will form part of the integrated system, if not so it can function as it is also.

TODOS and online electrical asset monitoring system shall be installed for transformers, including existing and new transformers; shall support cloud (IoT) and on-premise installation and provide access to electrical asset health dashboards on engineer's PC, Mobile, Laptops, or tablets. Utilities are advised to install the TODOS system even for the transformers at a voltage lower than 400 kV also.

In view of the above, it is reiterated to follow the provisions of the CEA's Regulations and Standards in respect of the installation of an Online Insulating Oil Dry Out System. Also, kindly ensure the compliance of the Regulations/Guidelines/Recommendations and report the status to CEA on regular basis.

This issues with the approval of the Competent Authority.

भवदीय,

 20/09/2023
 (भंवर सिंह मीना /Bhanwar Singh Meena)
 निदेशक/Director


 K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.



TAMILNADU POLLUTION CONTROL BOARD



Notification No. TNPCB/Labs/DD(L)/02151/2019

Date: 10.6.2020.

ORDER

Subject: TNPCB- Retrofitting of Emission Control Devices/Equipment in DG sets with Capacity of 125 KVA and above in the State of Tamil Nadu.

Whereas, the Government of Tamil Nadu, Environment & Forest Department in its G.O.Ms.No.4, EC, dated 28.09.1983, had declared the entire area within the State of Tamil Nadu as Air Pollution Control Area for the purpose of Air (Prevention and Control of Pollution) Act, 1981 as amended

"Whereas, in the state of Tamil Nadu, Thoothukudi and Trichy Cities have been identified as Non-attainment Cities which do not meet the standard prescribed air quality norms and an action plan for improving ambient air quality in the above said Non Attainment cities viz **Thoothukudi and Trichy Towns** have been prepared as per the directions date:08-10-2018 of Hon'ble NGT in the case titled as "NCAP with multiple timelines to clean air in 102 cities to be released around August 15" with Dr. Gautam Ghosh applicant(s) V/s of West Bengal & Ors. in O.A. 681 of 2018.

Whereas, the emission including **Particulate Matter** due to operation of Gen Sets have also been identified as one of the sources of air pollution in both the Non-attainment Cities, as per approved action plan submitted by the Government of Tamil Nadu to the Central Pollution Control board, for control of pollution in Thoothukudi and Trichy Towns.

Whereas, the Government of India, MoEF&CC has launched the the **National Clean Air Programme (NCAP)** for the prevention, control and abatement of air pollution level in the Country at an urban and regional level. The Government of India, recognizes major sources of air pollution such as vehicles, DG sets, construction dust etc. As per National Clean Air Programme (NCAP), Government of India, Diesel Generator sets as a major source of air pollution in Indian cities and states.

Whereas, there is a plan for national level target of **30%** reduction of **PM_{2.5}** and **PM₁₀** concentration in the ambient air under the National Clean Air Programme (NCAP), Govt. of India, wherein the Hon'ble NGT vide order dated 06/08/2019 has observed that the timeline to reduce the air pollution by 30% needs to be reduced and the target of reduction needs to be increased, having regard to adverse effect on public health and in view of constitutional mandate of fundamental right to breathe clean air. It further states, that the air pollution caused by DG sets needs to be a part of the action plans, which may, if necessary, require retrofitting of **Emission Control Devices / Equipment** on generators already in use" and

No. 76, MOUNT SALAI, GUINDY, CHENNAI - 600 032.

Tel : 22353134, 22353135, 22353136, 22353137, 22353138, 22353139, 22343140, 22353141

Fax : 044 - 22353068

Email : tnpceb@md3.vsnl.net.in Web : www.tnpceb.gov.in

(FW)

K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Now, therefore, with the above background, and in exercise of powers vested with the Board under **Section 17 (1) J read with section 31 (A) of Air (Prevention and Control of Pollution) Act, 1981 and section. 5 of the Environment (Protection) Act 1986**, all the industries and the establishments operating DG sets of capacity 125 KVA and above, within the jurisdiction of the state of Tamil Nadu, are hereby directed to:

I) Retrofit all operational DG sets of capacity **125 KVA** and above with an **Emission Control Device / Equipment** having a minimum specified **Particulate Matter** capturing efficiency of at least 70% in 5 mode D2 cycle. The Emission Control Device/Equipment must be tested over a ISO-8178 5 mode D2 cycle for equivalent KVA rating by one of the five Central Pollution Control Board, Govt of India, recognized /approved laboratories as given below:

- a. Automotive Research Association of India, Pune (Maharashtra)
- b. International Centre for Automotive Technology, Manesar (Haryana)
- c. Indian Oil Corporation, Research and Development Centre, Faridabad (Haryana)
- d. Indian Institute of Petroleum, Dehradun (Uttarakhand);or
- e. Vehicle Research Development Establishment, Ahmednagar (Maharashtra)

(or)

II) Shifting to gas based generators by employing new gas based generators or retrofitting the existing DG sets for partial gas usage.

This is to be complied with within a period of 120 days from the date of issuance of this order by all stake holders.

It is therefore, enjoined upon all the Industries and the establishments within the jurisdiction of the State of Tamil Nadu operating DG sets of **125 KVA** and above, to comply with the above said directions in the stipulated time period, failing which action as warranted under the provisions of Environment (Protection) Act, 1986 and Air (Prevention and Control of Pollution) Act, 1981 shall be initiated.

The receipt of the Notification shall be acknowledged within one week of the receipt of the direction.

Issued with the approval of Competent Authority.

KY

K YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

//Forwarded By Order//

(Sd)/A.V.Venkatachalam,I,F.S
Chairman

V. Venkatachalam
Deputy Director (Labs)

(9) (10)

Annexure-Z

Tamil Nadu Pollution Control Board

From Er. S. Rajan M.E District Environmental Engineer, Tamil Nadu Pollution Control Board, EPIP Building, A.O Block SIPCOT Industrial Complex Gummidipoondi - 601201	To The Chief Executive officer M/s NTPCTAMILNADU ENERGY COMPANY LTD Vallur Thermal Power Project Vellivoyal Chavadi Post Ponneri Taluk Tiruvallur District - 600103
--	--

Lr. No. DEE/TNPCB/GMP/0055/2018/ Dated 29.06.2018

Sir,

Sub: TNPCB -O/o DEE, Gummidipoondi- Industries - M/s NTPC Tamil Nadu Energy Company Ltd, SF.No. 1556, Vallur Village, Ponneri Taluk, Tiruvallur District - construction of Ash dyke lagoon -1 - demarcation of CRZ area & other details - called for and to stop construction work - intimation - Reg

Ref

1	Board's Lr.No.TNPCB/F.0104/RI/AMD/NOC/2017, Dt. 12.07.2017
2	T/o Letter No.DEE/TNPCB/GMP/0055/2018 Dt. 16.2.2018
3	Meeting convened by District Collector, Tiruvallur on 29.06.2018 at Collectorate with TNPCB officials, RDO Ponneri and officials from M/s NTPC Tamil Nadu Energy Company Ltd.

I invite your kind attention to reference 1st cited above, wherein NOC has been issued to M/s NTPC Tamil Nadu Energy Company Ltd, SF.No. 1556, Vallur Village, Ponneri Taluk, Tiruvallur District for the construction of Ash dyke lagoon - 1 subject to the following conditions.

1. The NOC issued shall not be construed as Consent or Authorization of the Board
2. The unit shall carry out the study through MS Swaminathan Research Foundation as suggested by the expert committee.
3. The unit shall develop mangrove plantation as per Canal Bank planting methodology suggested by MS Swaminathan Research Foundation (MSSRF 2002) of an area 15.1 Ha in NTECL area. The unit shall ensure to monitor the Mangrove plantation for its success growth.
4. The unit shall maintain Buffer zone of 50 m width between the bund and mangrove plantation.
5. The unit shall made a toe drain around the ash dyke and the seepage water collected in the toe drain shall be totally reused in plant.
6. The unit shall ensure that the discharge of ash to the dyke should be in slurry form only and also to provide a adequate water cover to maintain the ash dyke to prevent fugitive emission.

pw

73

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Meanwhile based on the complaint received from Thiru Nityanadam Jayaraman, Chennai against the construction of Ash dyke lagoon - I in the said premises which falls under CRZ area, the District Collector, Tiruvallur has convened an urgent meeting vide reference 3rd cited at District Collectorate.

At the outcome of the meeting, the District Collector, Tiruvallur has directed the unit of M/s NTPC Tamil Nadu Energy Company Ltd. SF.No. 1556, Vallur Village, Ponneri Taluk, Tiruvallur District has to stop the construction work of Ash dyke lagoon - I in the said premises since the unit has not furnished the details as sought by TNPCB vide reference 2nd cited. Further the District Collector has instructed the RDO Ponneri & DEE, TNPCB, Gummidipoondi to issue the stoppage notice immediately to the above said unit and further advised the unit of M/s NTPC Tamil Nadu Energy Company Ltd to furnish the details as sought by RDO Ponneri & TNPCB. Until the unit of M/s NTPC Tamil Nadu Energy Company Ltd shall not carry out any construction work of Ash dyke lagoon - I in the above said premises.

Hence you are requested to furnish the following details immediately and also you are requested to stop the construction work of Ash dyke lagoon - I, so as to take further action.

1. The unit shall earmark the location of the proposed Ash dyke lagoon - I incorporating its dimensions and other salient features in the approved CRZ map.
2. The unit shall earmark the boundary of HTL, HTL + 100M line of CRZ and also the dimensions of the Ash dyke lagoon - I in the proposed ash dyke lagoon area with stone pillar & furnish the certification to that effect from the competent Authority.
3. The unit shall furnish the point wise latest compliance report on the conditions mentioned in the Board's Ir Dt. 12.7.2017 under reference 1st cited above regarding the construction of Ash dyke lagoon - I
4. The unit shall furnish the design details of the proposed construction ash dyke lagoon - I and also furnish the details on the safe handling & disposal of dredged material from the proposed Ash dyke lagoon - I.

District Environmental Engineer
Tamil Nadu Pollution Control Board
Gummidipoondi

Copy submitted to

1. The District Collector, Tiruvallur
2. The Member Secretary, TNPCB, Gunidy, Chennai -32
3. The JCEEE(M), Chennai Zone, Chennai -58

For kind information please.

*Fes necessary to do at the... as mentioned in it and must be...
 + 6M(75) To do the...
 74*

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

TAMIL NADU POLLUTION CONTROL BOARD

From

Thiru. D. Sekar, M.Tech.
Member Secretary.
Tamil Nadu Pollution Control Board.
76, Mount Salai,
Guindy, Chennai - 32

To

The CEO,
M/s. NTPC TAMILNADU ENERGY
COMPANY LIMITED.
Vallur Thermal Power Project,
Vellivoyal Chavadi Post,
Ponneri Taluk,
Tiruvallur Dt, Chennai -600103

Lr.No. T2/TNPCB/F.2812/GMP/W/2018 dated: 04.09.2018

Sir,

Sub: TNPCB - Industries - M/s. NTPC Tamil Nadu Energy Company Limited (NTECL) (A joint venture between National Thermal Power Corporation Ltd & Tamil Nadu Electricity Board), S.F.no. 1556, vallur vilage, Ponneri Taluk, Tiruvallur District - To resume the work in respect of construction of Ash Dyke lagoon - I - Instructions issued - Regarding.

- Ref:
1. CTO Proc.No T8/TNPCB/F-3141/AMB/RLW&A/2009 dated 03.11.2009
 2. Renewal of consent Proc. No. T2 / TNPCB / F.0318GMP /RL/GMPW&A/ 2018 dated 21.02.2018
 3. Board's NOC Lr.No. TNPCB/F.0104/RL/AMB/NOC/2017 dt 12.07.2017
 4. Meeting attended by TNPCB Officials at RDO office Ponneri on 05.02.2018
 5. Lr. No. DEE/TNPCB/GMP/0055/2018 dated 29.06.2018
 6. Proceedings No. T2/TNPCB/F.2812/GMP/W/2018 dt 27.07.2018
 7. Unit's letter dated 02.08.2018
 8. Minutes of meeting conducted on 16.08.2018 at District Collectorate with the District Collector, RDO Ponneri
 9. Lr.No. DEE/TNPCB/GMP/0055/2018 dated 20.08.2018


I am to invite your kind attention to the references cited above, wherein the unit of M/s. NTPC Tamil Nadu Energy Company Limited (NTECL) (A joint venture between National Thermal Power Corporation Ltd & Tamil Nadu Electricity Board), S.F.no. 1556, Vallur village, Ponneri Taluk, Tiruvallur District has been issued with consent vide reference 1st cited and subsequently renewed vide reference 2nd cited valid upto 31.03.2018

Meanwhile, NOC has been issued to the unit vide reference 3rd cited for the construction of Ash Dyke lagoon-I subject to the certain conditions to comply with. Subsequently the unit has started the preliminary work for the construction of Ash dyke lagoon - I.

Based on the public protest on the construction of ash dyke lagoon - I, a meeting was convened on 05.02.2018 by RDO Ponneri with representatives from the unit and

DEPARTMENT SECRETARY, GUINDY, CHENNAI - 600032

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Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

officials of TNPCB, Gummidipoondi and the unit was requested to furnish certain details.

Meanwhile a complaint has been received against the construction of Ash Dyke lagoon-I in the said premises which falls under CRZ area. To redress this complaint, the District Collector, Tiruvallur has convened an urgent meeting at District Collectorate and the District Collector has instructed the RDO Ponneri & DEE, TNPCB, Gummidipoondi to issue the stoppage notice immediately to the above said unit in respect of construction of Ash Dyke lagoon-I and further advised the unit of M/s. NTPC Tamil Nadu Energy Company Ltd to furnish the details as sought by RDO, Ponneri & DEE, TNPCB Gummidipoondi.

Subsequently a letter was sent to the unit to stop the construction work of Ash dyke lagoon-I by DEE, TNPCB, Gummidipoondi vide reference 5th cited.

Further Board has issued certain direction to the unit vide reference 6th cited under section 33A of the Water (P&CP) Act 1974 as amended for the reasons stated therein and instructed to comply with the same.

Now, the unit vide letter dated 02.08.2018 has furnished the reply to the DEE,

TNPCB, Gummidipoondi and District Collector, Tiruvallur District along with certification obtained from Institute of Remote Sensing, Anna University, Chennai which concluded that "The survey team of Institute of Remote Sensing Anna University has visited site on 13.07.2018 and carried out survey using DGPS survey to earmark the boundary of Ash Dyke lagoon - I. After super imposition of above DGPS survey outputs in the approved CZMP it is found that the proposed site for Ash Dyke lagoon - I is out of CRZ zone as per existing approved coastal zone management plan of Tamil Nadu" and the unit has requested to allow them to proceed with construction of ash dyke lagoon - I.

In the mean time, the District Collector, Tiruvallur District has convened an urgent meeting on 16.08.2018 at 4.30 pm at District Collectorate along with RDO, Ponneri, DEE, Gummidipoondi and officials from M/s. NTECL in respect of considering the unit's request to resume the construction of Ash dyke lagoon - I work.

During the meeting it was discussed & instructed by District Collector, Tiruvallur that since the unit has obtained certification from Institute of Remote sensing, Anna University stating that the proposed site for Ash dyke lagoon - I is out of CRZ Zone as per existing approved Coastal Zone Management they allow the

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(PW)
K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.


TAMIL NADU POLLUTION CONTROL BOARD

M/s. NTPC Tamil Nadu Energy Company Ltd to resume the work in respect of construction of Ash Dyke lagoon - I.

In this regard, DEE, Gummidipoondi vide reference 9th cited has requested the Board for necessary orders for issue of letter to the unit of M/s. Tamil Nadu Energy Company Limited (NTECL) to resume the work in respect of construction of Ash Dyke lagoon - I.

In view of the above, the unit is hereby permitted to resume the work in respect of construction of Ash Dyke lagoon - I subject to the following conditions.

1. The unit shall ensure that the Ash Dyke lagoon - I must be constructed so that wastewater in the lagoon cannot intersect any underlying seasonal water table.
2. The Ash Dyke lagoon - I must be constructed so as not to be liable, as far as practicable, to inundation or damage from flood waters
3. The Ash Dyke lagoon - I must be constructed to ensure that the contents of the lagoon do not overflow into waters or onto land in a place from which they are reasonably likely to enter any waters.
4. The unit shall ensure to monitor the mangrove plantation for its success growth.
5. The unit shall maintain Buffer zone of 50 m width between the bund and mangrove plantation.
6. The unit shall make a toe drain around the ash dyke and the seepage water collected in the toe drain shall be totally reused in power plant.
7. The unit shall ensure that the discharge of ash to the dyke should be in slurry form only and also to provide an adequate water cover to maintain the ash dyke to prevent fugitive emission.
8. Regular sampling and monitoring of wastewater quality is to be done to assess ongoing lagoon effectiveness and determine pollutant loads
9. The unit shall furnish photographs of the construction of the ash dyke lagoon - I at all stages to the Board
10. The unit shall ensure that the soil or other construction materials arising due to the construction shall not be stored or disposed in CRZ area
11. The unit shall collect water samples from open wells and bore wells in the nearby areas (1 Km radius) and analyse the samples for all parameters before and after the construction of the ash dyke lagoon - I and furnish report of analysis to the Board


K. YADAGIRI
Manager (EEMG)

NTPC Tamilnadu Energy Company L
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600

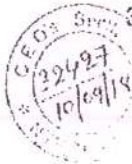
12. The unit shall provide monitoring wells around the ash dyke lagoon, so as to monitor the water quality before and after the construction of the lagoon -- I.
13. The unit shall comply with the recommendations specified in the report of MS Swaminathan Research Foundation.

The receipt of the letter may be acknowledged

[Signature]
For Member Secretary

Copy to

1. The Joint Chief Environmental Engineer (Monitoring),
Tamil Nadu Pollution Control Board,
Chennai Region.
2. The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Gummidipoondi.
3. File.



→ G.H (OPM)
→ C.M (T.C) / (C.M (H.P))
→ A.C.M (P.C.C) / A.C.M (K.M.C. / P.C.C)

[Handwritten notes]
10/09/18

Copy for kind information:

- i) Director (Operations), NTPC Ltd.
- ii) P.E.D (S.R)
- iii) E.D (Envt/du/Safety)

[Handwritten initials]

[Handwritten signature]
10/09/18

78

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

S.P. ASSOCIATES

Chartered Accountants

HEAD OFFICE :

Flat G3, III Floor, Kesavan Enclave,
No.18 Anna Avenue, Kasthuriba Nagar, Adyar,
Chennai - 600 020. Tel.: 044 - 2441 1719, 4351 7152
Mobile :+91 94440 22256, 98406 79363
E-mail : sg@spaauditing.com / sp@spaauditing.com
ak@spaauditing.com / spaaudit.ca@gmail.com

Date: 30-10-2024

To

NTPC Tamilnadu Energy Company Ltd
Vallur Thermal Power Station
PO: Velliyoyal Chavadi, Ponneri Taluk
Thiruvallur Dist, Chennai -600 103.

We have verified the data of NTPC Tamilnadu Energy Company Ltd (NTECL) for Weighted Average cost of Coal and Gross Calorific Value (Form 15) and Weighted Average Cost and GCV of oil (Form 19) for the Period of April 2023 to March 2024 and certify that:

- 1) The Weighted Average Cost and GCV are as below:

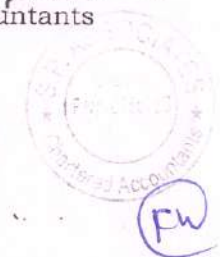
Month	Weighted Average Cost-Coal (Rs/MT)	Weighted Average "as received" GCV-Coal (Kcal/kg)	Weighted Average Cost -Oil (Rs/KL)	Weighted Average GCV -Oil (Kcal/Ltr)
April 2023	4415.51	3542.21	86356.28	9353.67
May 2023	5200.41	3647.16	86356.28	9353.67
June 2023	5289.92	3646.29	80502.03	9347.04
July 2023	5308.26	3605.80	80295.43	9347.04
August 2023	5188.26	3401.78	80295.43	9347.04
September 2023	5052.87	3245.52	83593.12	9326.11
October 2023	4970.14	3228.46	85770.66	9326.11
November 2023	4735.75	3068.90	84943.36	9326.11
December 2023	4708.31	3285.71	82527.81	9409.65
January 2024	4955.36	3513.94	79746.75	9409.65
February 2024	5149.03	3360.45	79730.81	9409.65
March 2024	5117.23	3250.74	79456.76	9413.80

- 2) We have obtained the relevant data/information like CERC Guidelines, Priced Stores Ledger, books of accounts, etc required for forming an opinion.
3) The data given to us has been verified in detail and found to be correct.
4) The certificate has been issued without any prejudice and the opinion formed are independent one based on the documents/data provided to us.

Date: 30-10-2024
Place: Chennai
UDIN: 24201704BKCSBE7509

For S. P. ASSOCIATES
Chartered Accountants

P. SRIGANESH
Partner
M.No.201704



K YADAGIRI
Manager (EEMG)

BRANCH OFFICES :

- * Flat # 102, Friends Square Apartments, 1st Main, Prasanthi Nagar, Kithgunar Main Road, Bengaluru, Karnataka - 560 036.
* Ricemill complex, Rathinaswamy Nagar, 8th Street, Thanjavur, Tamilnadu - 613 206.
* 59, Santhikooda Street, Virudhunagar, Tamilnadu - 626 001 * B-128, PIPDIC Industrial Estate, Mettupalayam, Pudukcherry - 605 001.
* F 4, Rams VSR Apartment, Vijayawada, Andhra Pradesh - 520 010.* E 14 B, Sector 8, Noida, New Delhi, Delhi - 201 301.

NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
PO: Velliyoyal Chavadi, Chennai-600 103.

Form-15 (Coal)



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

NTPC LIMITED
NTPC TAMILNADU ENERGY COMPANY LIMITED
(A Joint Venture of NTPC Ltd & TNEB)
VALLUR THERMAL POWER PROJECT

Form-15	Unit	For the month of April 2023		For the month of May 2023		For the month of June 2023	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
A) Opening Quantity							
1 Opening Quantity of Coal / Lignite	MT	6,220.84	61,313.46	1,05,932.42	63,829.46	53,775.22	56,135.04
2 Value of Stock	(Rs)	(15,519,085.95)	695,254,433.86	(392,546,627.20)	675,708,247.46	234,068,708.44	579,939,024.43
B) Quantity							
3 Quantity of coal/Lignite Bio Supplied by coal/Lignite /Bio Mass company for the month giving complete details of mode of transportation used for transportation along with quantity	MT	515,572.00	73,000.00	544,170.00	55,212.00	486,203.00	99,349.00
	MT	0.00	-	0.00	-	0.00	-
-By Road	MT	0.00	-	0.00	-	0.00	-
-By Ship	MT	0.00	73,000.00	0.00	55,212.00	0.00	99,349.00
-By MGR	MT	0.00	-	0.00	-	0.00	-
By any other mode-Multimodal	MT	515,572.00	-	544,170.00	-	466,203.00	-
4 Adjustment (+/-) in quantity supplied made by Coal Company	MT	0.00	-	0.00	-	0.00	-
5 Coal supplied by Coal Company (3+4)	MT	515,572.00	73,000.00	544,170.00	55,212.00	466,203.00	99,349.00
6 Actual transit & Handling Losses (For coal/Lignite based Projects)	MT	2,696.44	63.51	2,846.01	48.03	2,438.24	86.43
6a Normative Transit & Handling Losses (For Coal based Projects)	MT	4,124.58	146.00	4,353.36	110.42	3,729.62	198.70
7 Actual coal / Lignite supplied after adjusting normative transit & Handling Losses (5-6a)							
C) PRICE							
8 Amount Charged by the Coal Company	(Rs)	884,323,110.33	704,937,487.38	1,147,811,324.95	536,201,346.57	1,192,574,549.13	884,712,970.69
9 Adjustment (+/-) in amount charged made by Coal Company	(Rs)	-	-	-	-	(98,425,820.65)	-
10 Handling Charges (Handling, Sampling and such other similar charges)	(Rs)	54,717,207.53	4,749,544.00	63,308,834.62	3,592,217.41	73,968,635.87	6,463,870.02
	(Rs)	28,190,574.00	3,991,512.00	29,754,265.00	3,018,896.00	24,628,762.00	5,432,230.00
Unloading Charges	(Rs)	18,484,284.06	-	24,815,696.36	-	45,119,072.05	-
Handling Charges	(Rs)	5,042,349.47	758,032.00	8,738,873.26	573,321.41	4,220,801.62	1,031,640.02
Sampling Charges	(Rs)	939,040,317.87	709,682,031.38	1,211,120,159.57	539,793,563.98	1,168,117,364.35	891,176,840.70
D) Transportation							
11 Total Amount Charges (8+9+10)	(Rs)	956,074,110.17	17,497,618.00	1,070,004,868.41	13,233,952.00	1,032,260,705.25	23,813,299.00
12 Transportation charges by Rail / Ship / Road transport	(Rs)	400,054,038.49	-	478,396,746.29	-	396,594,806.93	-
By Rail	(Rs)	-	-	-	-	-	-
By Road	(Rs)	-	-	-	-	-	-
By Ship	(Rs)	-	-	-	-	-	-
By MGR	(Rs)	556,020,071.68	17,497,618.00	559,178,326.12	13,233,952.00	536,790,273.32	23,813,299.00
13 Adjustment (+/-) in amount charged made by Railway / 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)	956,074,110.17	17,497,618.00	1,070,004,868.41	13,233,952.00	1,032,260,705.25	23,813,299.00
17 Total amount charged for coal/Lignite supplied including Transportation (11+16)	(Rs)	1,895,114,428.03	727,179,646.38	2,281,125,027.98	563,027,515.98	2,200,378,069.60	914,950,139.70
E) TOTAL COST							
18 Landed cost of Coal (2+17)/(1+7)	Rs./MT	3705.63	10586.15	4352.72	10311.50	4715.65	9627.11
19 Blending Ratio (% of Total)		89.68%	10.32%	85.82%	14.18%	88.31%	11.69%
20 Weighted average cost of Coal (including Biomass)	Rs./MT	4415.51	5200.41	5200.41	5200.41	5289.92	5289.92
20a Weighted average cost of Coal (Excluding Biomass)	Rs./MT	4415.51	5200.41	5200.41	5200.41	5289.92	5289.92

K YADAGIRI
Manager (EPMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyai Chavadi, Chennai-600 100

Details/information to be submitted in respect of Fuel For Computation of Energy Charges
NTPC LIMITED

NTPC TAMILNADU ENERGY COMPANY LIMITED
(A Joint Venture of NTPC Ltd & TNEB)
VALLUR THERMAL POWER PROJECT

F) QUALITY	Unit	For the month of April 2023		For the month of May 2023		For the month of June 2023	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company (on EM basis) (kCa/kg)	3503.43		3488.39		3557.90	
22	GCV of Domestic Coal supplied as per bill of coal Company (on EM basis) (kCa/kg)	3481.60		3575.21		3658.79	
23	GCV of Imported Coal of the opening coal stock as per bill of Coal Company (ARB) (kCa/kg)		5056.89		5071.57		5071.57
24	GCV of Imported Coal supplied as per bill of coal Company (ARB) (kCa/kg)		5084.00		5062.00		5047.46
25	Weighted average GCV of coal as Billed (Including Biomass) (kCa/kg)	3729.99		3783.57		3862.57	
25a	Weighted average GCV of coal as Billed (Excluding Biomass) (kCa/kg)	3729.99		3783.57		3862.57	
26	GCV of Domestic Coal of the opening stock as received at Station (on TM basis) (kCa/kg)	3359.83		3365.88		3410.81	
27	GCV of Domestic Coal supplied as received at Station (on TM basis) (kCa/kg)	3368.62		3422.00		3480.28	
28	GCV of Imported Coal of the opening stock as received at Station (on TM basis) (kCa/kg)		5135.22		5075.00		5077.77
29	GCV of Imported Coal supplied as received at Station (on TM basis) (kCa/kg)		5024.00		5081.00		5121.00
30	Weighted average GCV of Coal as Received (Including Biomass) (kCa/kg)	3542.21		3647.16		3646.29	
30a	Weighted average GCV of Coal as Received (Excluding Biomass) (kCa/kg)	3542.21		3647.16		3646.29	

Note:-Adjustment is due to accounting of Credit & Debit Notes and Grade Slippage.

(Signature)
K. Prasad

Manager
NTPC Taminadu Energy Company Limited
Vallur Thermal Power Project
P.O.: Vellivoyal Chayal, Chennai - 600 103.



Form-15 (Coal)

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

NTPC LIMITED

NTPC TAMILNADU ENERGY COMPANY LIMITED
(A Joint Venture of NTPC Ltd & TNEB)
VALLUR THERMAL POWER PROJECT

Form-15		For the month of July 2023		For the month of August 2023		For the month of September 2023	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
A) Opening Quantity		MT		MT		MT	
1	Opening Quantity of Coal / Lignite	77,845.60	97,238.34	125,116.33	39,101.34	33,715.47	-
2	Value of Stock	Rs. 367,092,463.02	936,124,267.14	608,085,897.75	376,432,930.18	163,043,207.32	-
B) Quantity		MT		MT		MT	
3	Quantity of coal/Lignite Bio Supplied by coal/Lignite /Bio Mass company for the month giving complete details of mode of transportation used for transportation along with quantity	568,784.00	-	406,982.00	-	364,673.00	-
	-By Rail	0.00	-	0.00	-	0.00	-
	-By Road	0.00	-	0.00	-	0.00	-
	-By Ship	0.00	-	0.00	-	0.00	-
	-By MGR	0.00	-	0.00	-	0.00	-
	By any other mode-Multimodal	568,784.00	-	406,982.00	-	364,673.00	-
4	Adjustment (+/-) in quantity supplied made by Coal Company	0.00	-	0.00	-	0.00	-
5	Coal supplied by Coal Company (3+4)	568,784.00	-	406,982.00	-	364,673.00	-
6	Actual transit & Handling Losses (For coal /Lignite based Projects)	4,538.90	-	3,247.72	-	2,910.09	-
6a	Normative Transit & Handling Losses (For Coal based Projects)	4,530.27	-	3,255.86	-	2,917.38	-
7	Actual coal // Lignite supplied after adjusting normative transit & Handling Losses (5-6a)	564,245.10	0.00	403,734.28	0.00	361,762.91	0.00
C) PRICE		Rs.		Rs.		Rs.	
8	Amount Charged by the Coal Company	1,395,336,976.88	-	1,225,694,249.26	1,177,476,348.24	1,177,476,348.24	-
9	Adjustment (-) in amount charged made by Coal Company	87,339,769.20	-	(211,374,637.66)	(184,607.27)	(232,866,412.48)	-
10	Handling Charges (Handling, Sampling and such other similar charges)	92,658,622.50	-	88,432,815.69	-	81,941,684.68	-
	Unloading charges	31,100,114.00	-	22,253,063.00	-	19,939,682.00	-
	Handling Charges	51,817,527.41	-	58,553,182.35	-	54,602,421.35	-
	Sampling Charges	9,740,981.18	-	7,626,570.34	-	7,399,581.34	-
11	Total Amount Charged (8+9+10)	1,575,935,318.67	-	1,102,752,427.29	1,184,607.27	1,026,555,620.45	-
D) Transportation		Rs.		Rs.		Rs.	
12	Transportation charges by Rail / Ship / Road transport	1,153,439,231.04	-	851,404,338.42	-	808,670,025.27	-
	By Rail-Railway Freight	481,728,100.96	-	315,469,401.74	-	261,120,840.73	-
	By Road	108,756,900.00	-	158,819,661.00	-	156,981,467.00	-
	By Ships	562,954,230.08	-	377,115,275.67	-	390,617,717.55	-
	By MGR	-	-	-	-	-	-
13	Adjustment (-) in amount charged made by Railway / Transport Company	-	-	-	-	-	-
14	Demurrage Charges, if any	-	-	-	-	-	-
15	Cost of diesel in transporting coal through MGR system, if applicable	-	-	-	-	-	-
16	Total Transportation charges (12+13+14+15)	1,153,439,231.04	-	851,404,338.42	-	808,670,025.27	-
17	Total amount charged for coal/Lignite supplied including Transportation (11+16)	2,729,374,549.72	-	1,954,156,766.70	1,184,607.27	1,835,221,645.72	-
E) TOTAL COST		Rs./MT		Rs./MT		Rs./MT	
18	Landed cost of Coal (2+17)/(1+7)	4821.63	9627.11	4835.85	9622.89	5052.87	0.00
19	Blending Ratio (% of Total)	89.87%	10.13%	92.64%	7.36%	100.00%	0.00%
20	Weighted average cost of Coal (Including Biomass)	5306.26	5188.26	5188.26	5188.26	5052.87	0.00%
20a	Weighted average cost of Coal (Excluding Biomass)	5306.26	5188.26	5188.26	5188.26	5052.87	0.00%

(KW)

K YADAV
Manager (EUC)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Project
P.O.: Vellivoyal Chavadi, Chennai-600 103.



Details/information to be submitted in respect of Fuel For Computation of Energy Charges
NTPC LIMITED
NTPC TAMILNADU ENERGY COMPANY LIMITED
 (A Joint Venture of NTPC Ltd & TNFB)
VALLUR THERMAL POWER PROJECT

Form-15		For the month of July 2023		For the month of August 2023		For the month of September 2023	
		Domestic Coal (Other than Integrated Mines)	Imported Coal	Domestic Coal (Other than Integrated Mines)	Imported Coal	Domestic Coal (Other than Integrated Mines)	Imported Coal
F)	QUALITY	Unit					
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company (on EM basis)	kCal/Kg	3619.33				
22	GCV of Domestic Coal supplied as per bill of coal Company (on EM basis)	kCal/Kg	3645.46	3635.91	3698.24		
23	GCV of Imported Coal of the opening coal stock as per bill of Coal Company (ARB)	kCal/Kg		3756.46	3872.61		
24	GCV of Imported Coal supplied as per bill of coal Company (ARB)	kCal/Kg		5056.22	5056.22	0.00	0.00
25	Weighted average GCV of coal as billed (Including Biomass)	kCal/Kg	3775.92	0.00	0.00		
25a	Weighted average GCV of coal as billed (Excluding Biomass)	kCal/Kg	3775.92	3763.69	3763.69	3761.89	
26	GCV of Domestic Coal of the opening stock as received at Station (on TM basis)	kCal/Kg	3453.11	3763.69			
27	GCV of Domestic Coal supplied as received at Station (on TM basis)	kCal/Kg	3427.48	3436.84	3266.51		
28	GCV of Imported Coal of opening stock as received at Station (on TM basis)	kCal/Kg		3107.41	3228.80		
29	GCV of Imported Coal supplied as received at Station (on TM basis)	kCal/Kg		5105.29	5105.29	0.00	0.00
30	Weighted average GCV of Coal as Received (Including Biomass)	kCal/Kg	3695.80	0.00	0.00		
30a	Weighted average GCV of Coal as Received (Excluding Biomass)	kCal/Kg	3695.80	3401.78	3245.52	3245.52	

Note:-Adjustment is due to accounting of Credit & Debit Notes and Grade Slippage.

KW



K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Form-15 (Coal)

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

NTPC LIMITED
NTPC TAMILNADU ENERGY COMPANY LIMITED
(A Joint Venture of NTPC Ltd & TNEB)
VALLUR THERMAL POWER PROJECT

Form-15		For the month of October*2023		For the month of November 2023		For the month of December 2023	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
A)	Opening Quantity						
1	Opening Quantity of Coal / Lignite	MT	10,878.09				
2	Value of Stock	(Rs)	5,49,65,597.89		(1,40,057.70)		
B)	Quantity						
3	Quantity of coal/Lignite Bio Supplied by coal/Lignite /Bio Mass company for the month giving complete details of mode of transportation used for transportation along with quantity	MT	3,18,974.00		3,13,268.00		2,47,439.94
	-By Rail	MT	0.00		0.00		0.00
	-By Road	MT	0.00		0.00		0.00
	-By Ship	MT	0.00		0.00		0.00
	-By MGR	MT	0.00		0.00		0.00
	By any other mode-Multi-modal	MT	318974.00		313268.00		247439.94
4	Adjustment (+/-) in quantity supplied made by Coal Company	MT	0.00		0.00		0.00
5	Coal supplied by Coal Company (3+4)	MT	3,18,974.00		3,13,268.00		2,47,439.94
6	Actual transit & Handling Losses (For coal /Lignite based Projects)	MT	2,411.44		2,368.31		1,870.65
6a	Normative Transit & Handling Losses (For Coal based Projects)	MT	2,551.79		2,506.14		1,979.52
7	Actual coal / Lignite supplied after adjusting normative transit & Handling Losses (5-6a)	MT	3,16,422.21		3,10,761.86		2,45,460.42
C)	PRICE						
8	Amount Charged by the Coal Company	(Rs)	71,75,09,470.19		73,39,36,790.10		45,60,82,046.95
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs)	(1,50,00,000.00)		13,00,000.00		20,51,31,762.14
10	Handling Charges (Handling, Sampling and such other similar charges)	(Rs)	5,87,44,906.68		6,95,74,049.45		2,85,51,265.63
	Unloading charges		2,24,14,395.00		1,72,27,687.00		1,35,15,203.00
	Handling Charges		3,27,53,270.77		4,66,92,253.68		1,08,55,950.12
	Sampling Charges		35,67,240.91		56,54,108.77		41,80,112.51
11	Total Amount Charges (8+9+10)	(Rs)	79,13,14,376.88		93,35,12,839.56		66,97,65,074.72
D)	Transportation						
12	Transportation charges by Rail / Ship / Road transport	(Rs)	78,04,48,140.87		57,10,05,376.69		48,59,39,851.96
	By Rail-Railway Freight	(Rs)	24,00,40,464.80		17,56,64,056.09		16,11,48,922.84
	By Road	(Rs)	4,74,90,513.00		9,55,62,600.00		2,77,73,198.15
	By Ships	(Rs)	49,29,17,163.07		29,97,78,120.60		29,70,17,830.97
	By MGR	(Rs)	-		-		-
13	Adjustment (+/-) in amount charged made by Railway / 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)	78,04,48,140.87		57,10,05,376.69		48,59,39,851.96
17	Total amount charged for coal/Lignite supplied including Transportation (11+16)	(Rs)	1,57,17,62,317.74		1,50,45,18,216.25		1,15,57,04,926.67
E)	TOTAL COST						
18	Landed cost of Coal (2+17)/(1+7)	Rs./MT	4970.14		4735.75		4708.31
19	Blending Ratio (% of Total)		100.00%		100.00%		100.00%
20	Weighted average cost of Coal (Including Biomass)	Rs./MT	4970.14		4735.75		4708.31
20a	Weighted average cost of Coal (Excluding Biomass)	Rs./MT	4970.14		4735.75		4708.31

(RW)



K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

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

NTPC LIMITED
 NTPC TAMILNADU ENERGY COMPANY LIMITED
 (A Joint Venture of NTPC Ltd & TNER)
 VALLUR THERMAL POWER PROJECT

Form-15		Unit	For the month of October 2023		For the month of November 2023		For the month of December 2023	
			Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
F1	QUALITY							
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company (on EM basis)	(KCal/Kg)	3751.89		3721.26		3482.58	
22	GCV of Domestic Coal supplied as per bill of coal Company (on EM basis)	(KCal/Kg)	3686.79		3389.41		3630.50	
23	GCV of Imported Coal of the opening coal stock as per bill of Coal Company (ARB)	(KCal/Kg)		0.00		0.00		0.00
24	GCV of Imported Coal supplied as per bill of coal Company (ARB)	(KCal/Kg)		0.00		0.00		0.00
25	Weighted average GCV of coal as Billed (Including Biomass)	(KCal/Kg)	3721.26		3482.58		3593.34	
25a	Weighted average GCV of coal as Billed (Excluding Biomass)	(KCal/Kg)	3721.26		3482.58		3593.34	
26	GCV of Domestic Coal of the opening stock as received at Station (on TM basis)	(KCal/Kg)	3245.52		3228.46		3068.90	
27	GCV of Domestic Coal supplied as received at Station (on TM basis)	(KCal/Kg)	3213.98		3006.61		3358.44	
28	GCV of Imported Coal of opening stock as received at Station (on TM basis)	(KCal/Kg)		0.00		0.00		0.00
29	GCV of Imported Coal supplied as received at Station (on TM basis)	(KCal/Kg)		0.00		0.00		0.00
30	Weighted average GCV of Coal as Received (Including Biomass)	(KCal/Kg)	3228.46		3068.90		3285.71	
30a	Weighted average GCV of Coal as Received (Excluding Biomass)	(KCal/Kg)	3228.46		3068.90		3285.71	

Note: Adjustment is due to accounting of Credit & Debit Notes and Grade Slippage.



K YADAGIRI
 Manager (EEMG)
 NTPC Tamilnadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.

Form-15 (Coal)

Details/Information to be submitted in respect of Fuel For Computation of Energy Charges
NTPC LIMITED

NTPC TAMILNADU ENERGY COMPANY LIMITED
(A Joint Venture of NTPC Ltd & TNEN)
VALLUR THERMAL POWER PROJECT

Form-15		For the month of January 2024		For the month of February 2024		For the month of March 2024	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
A)	Unit						
1	Opening Quantity of Coal / Lignite	MT	5,279.42				
2	Value of Stock	(Rs)	24,857,171.29				
3	Quantity						
3	Quantity of coal/lignite bin supplied by coal/lignite /Bio Mass company for the month giving complete details of mode of transportation used for transportation along with quantity	MT	609,846.00				
	By Rail	MT	0.00				
	By Road	MT	0.00				
	By Ship	MT	0.00				
	By MGR	MT	0.00				
	By other mode-Multimodal	MT	609,846.00				
4	Adjustment (+) in quantity supplied made by Coal Company	MT	0.00				
5	Coal supplied by Coal Company (3+4)	MT	609,846.00				
6	Actual transit & Handling Losses (For coal/lignite based Projects)	MT	4,799.49				
6a	Normalive Transit & Handling Losses (For Coal based Projects)	MT	4,878.77				
7	Actual coal / Lignite supplied after adjusting normative transit & Handling Losses (5-6a)	MT	604,967.23	0.00	258,752.29	0.00	285,103.01
C)	PRICE						
8	Amount charged by the Coal Company	(Rs)	3,446,320,547.77				
9	Adjustment (+) in amount charged made by Coal Company	(Rs)	270,000,000.00				
10	Handling Charges Handling, Sampling and such other similar charges	(Rs)	104,881,245.91				
	Unloading charges		35,630,046.00				
	Handling Charges		60,308,295.42				
	Sampling Charges		8,943,444.50				
11	Total Amount Charges (8+9+10)	(Rs)	1,821,211,283.68				
D)	Transportation						
	Transportation charges by Rail / Ship / Road transport	(Rs)	1,177,924,080.87				
	By Rail-Railway Freight	(Rs)	474,319,455.78				
	By Ship	(Rs)	97,240,300.00				
	By MGR	(Rs)	605,864,325.09				
13	Adjustment (+) in amount charged made by Railway / 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)	1,777,924,080.87				
17	Total amount charged for coal/lignite supplied including Transportation (11+16)	(Rs)	2,999,135,364.55				
18	Landfill cost of Coal (2+17)/(3+7)	(Rs/MT)	4955.36	0.00	5149.03	0.00	5117.23
19	Blending Ratio (Rs of Total)	(Rs/MT)	100.00%	0.00%	100.00%	0.00%	100.00%
20	Weighted average cost of Coal (Including Biomass)	(Rs/MT)	4955.36	5149.03	5117.23	5117.23	5117.23
20a	Weighted average cost of Coal (Excluding Biomass)	(Rs/MT)	4955.36	5149.03	5117.23	5117.23	5117.23

EW

K YADAGIRI
Manager (EEMG)

NTPC Taminadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.



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

NTPC LIMITED
 NTPC TAMILNADU ENERGY COMPANY LIMITED
 (A Joint Venture of NTPC Ltd & TNES)
 VALLUR THERMAL POWER PROJECT

Form-15		For the month of January 2024		For the month of February 2024		For the month of March 2024	
		Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal	Domestic Coal (Other than Integrated Mine)	Imported Coal
F)	QUALITY	Unit					
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company (on EM basis)	(KCal/Kg)	3593.34	3653.85	3653.85	3615.54	
22	GCV of Domestic Coal supplied as per bill of coal Company (on EM basis)	(KCal/Kg)	3662.80	3601.70	3649.43		
23	GCV of Imported Coal of the opening coal stock as per bill of Coal Company (ARB)	(KCal/Kg)	0.00	0.00	0.00	0.00	
24	GCV of Imported Coal supplied as per bill of coal Company (ARB)	(KCal/Kg)	0.00	0.00	0.00	0.00	
25	Weighted average GCV of coal as billed (including biomass)	(KCal/Kg)	3653.85	3653.85	3635.31	3708.25	
25a	Weighted average GCV of coal as billed (excluding biomass)	(KCal/Kg)	3653.85	3653.85	3635.31	3708.25	
26	GCV of Domestic Coal of the opening stock as received at Station (on TM basis)	(KCal/Kg)	3285.71	3513.94	3360.45	3360.45	
27	GCV of Domestic Coal supplied as received at Station (on TM basis)	(KCal/Kg)	3547.72	3077.51	3087.85		
28	GCV of Imported Coal of the opening stock as received at Station (on TM basis)	(KCal/Kg)	0.00	0.00	0.00	0.00	
29	GCV of Imported Coal supplied as received at Station (on TM basis)	(KCal/Kg)	0.00	0.00	0.00	0.00	
30	Weighted average GCV of Coal as Received (including biomass)	(KCal/Kg)	3513.94	3160.45	3160.45	3250.74	
30a	Weighted average GCV of Coal as Received (excluding biomass)	(KCal/Kg)	3513.94	3160.45	3160.45	3250.74	

Note:-Adjustment is due to accounting of Credit & Debit Notes and Grade Slippage.

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K YADAGIRI
 Manager (EEMG)
 NTPC Taminadu Energy Company Ltd.
 Vallur Thermal Power Station
 P.O.: Vellivoyal Chavadi, Chennai-600 103.



NTECLNTPC TAMILNADU ENERGY COMPANY LIMITED
VALLUR THERMAL POWER PROJECT**Form 19**Details / Information to be submitted in respect of Fuel for Computation of Energy Charges.

Name of the Company :- NTECL

Name of Power Station :- Vallur Thermal Power Project

LDO

Particulars	RS/Unit	April-23	May-23	June-23
OPENING STOCK OF OIL	KL	1,594.836	1,439.159	1,260.129
VALUE OF OPENING STOCK	RS	137,724,107.520	124,280,420.590	108,820,055.410
QTY OF OIL SUPPLIED BY THE OIL CO.	KL	-	-	760.000
ADJUST.(+/-) IN QTY SUPPLIED MADE BY OIL CO.	KL	0.00	0.00	0.00
OIL SUPPLIED BY OIL COMPANY (3+4)	KL	0.000	0.000	760.000
NORMATIVE TRANSIT AND HANDLING LOSS	KL	0.00	0.00	0.00
NET OIL SUPPLIED (5-6)	KL	0.000	0.000	760.000
AMOUNT CHARGED BY OIL CO.	Rs.	-	-	53,804,434.00
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY OIL CO.	Rs.			
TOTAL AMOUNT CHARGED (8+9)	Rs.	0.00	0.00	53,804,434.00
TRANSPORTATION CHARGES BY RAIL/SHIP/ROAD TRANSPORT	Rs.	0.00	0.00	0.00
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY RAILWAY/TRANSPORT CO.	Rs.	0.00	0.00	0.00
DEMURRAGE CHARGES	Rs.	0.00	0.00	0.00
TOTAL TRANSPORTATION CHARGES (11+/-12)	Rs.	0.00	0.00	0.00
TOTAL AMOUNT CHARGED FOR OIL SUPPLIED INCLUDING TRANSPORTATION (10+14)	Rs.	0.00	0.00	53,804,434.00
WEIGHTED AVG. GCV OF OIL AS FIRED	Kcal/Litre	9,353.67	9,353.67	9,347.04
QUANTITY OF OIL AT THE STATION FOR THE MONTH (1+7)	KL	1,594.84	1,439.16	2,020.13
TOTAL AMOUNT CHARGED FOR OIL (2+15)	RS.	137,724,107.52	124,280,420.59	162,624,489.41
LANDED COST OF OIL (18/17)	RS/KL	86,356.28	86,356.28	80,502.03
QUANTITY OF OIL CONSUMED	KL	155.677	179.030	517.655
VALUE OF OIL CONSUMED (19*20)	RS	13,443,686.93	15,460,365.18	41,672,279.37
CLOSING STOCK OF OIL (17-20)	KL	1,439.159	1,260.129	1,502.474
VALUE OF CLOSING STOCK (18-21)	RS	124,280,420.59	108,820,055.41	120,952,210.03



K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

NTECLNTPC TAMILNADU ENERGY COMPANY LIMITED
VALLUR THERMAL POWER PROJECT**Form 19**

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

Name of the Company :- NTECL

Name of Power Station :- Vallur Thermal Power Project

LDO

Particulars	RS/Unit	July-23	August-23	September-23
OPENING STOCK OF OIL	KL	1,502.474	1,467.098	1,208.244
VALUE OF OPENING STOCK	RS	120,952,210.030	117,801,267.560	97,016,473.830
QTY OF OIL SUPPLIED BY THE OIL CO.	KL	40.000	-	680.000
ADJUST. (+/-) IN QTY SUPPLIED MADE BY OIL CO.	KL	0.00	0.00	0.00
OIL SUPPLIED BY OIL COMPANY (3+4)	KL	40.000	0.000	680.000
NORMATIVE TRANSIT AND HANDLING LOSS	KL	0.00	0.00	0.00
NET OIL SUPPLIED (5-6)	KL	40.000	0.000	680.000
AMOUNT CHARGED BY OIL CO.	Rs.	2,901,406.00	-	60,827,736.00
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY OIL CO.	Rs.	-	-	-
TOTAL AMOUNT CHARGED (8+9)	Rs.	2,901,406.00	0.00	60,827,736.00
TRANSPORTATION CHARGES BY RAIL/SHIP/ROAD TRANSPORT	Rs.	0.00	0.00	0.00
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY RAILWAY/TRANSPORT CO.	Rs.	0.00	0.00	0.00
DEMURRAGE CHARGES	Rs.	0.00	0.00	0.00
TOTAL TRANSPORTATION CHARGES (11+/-12)	Rs.	0.00	0.00	0.00
TOTAL AMOUNT CHARGED FOR OIL SUPPLIED INCLUDING TRANSPORTATION (10+14)	Rs.	2,901,406.00	0.00	60,827,736.00
WEIGHTED AVG. GCV OF OIL AS FIRED	Kcal/Litre	9,347.04	9,347.04	9,326.11
QUANTITY OF OIL AT THE STATION FOR THE MONTH (1+7)	KL	1,542.47	1,467.10	1,888.24
TOTAL AMOUNT CHARGED FOR OIL (2+15)	RS.	123,853,616.03	117,801,267.56	157,844,209.83
LANDED COST OF OIL (18/17)	RS/KL	80,295.43	80,295.43	83,593.12
QUANTITY OF OIL CONSUMED	KL	75.376	258.854	498.330
VALUE OF OIL CONSUMED (19*20)	RS	6,052,348.47	20,784,793.73	41,656,960.14
CLOSING STOCK OF OIL (17-20)	KL	1,467.098	1,208.244	1,389.914
VALUE OF CLOSING STOCK (18-21)	RS	117,801,267.56	97,016,473.83	116,187,249.69

K YADAGIRI

Manager (EEMG)

NTPC Tamilnadu Energy Company Ltd.

Vallur Thermal Power Station

P.O.: Vellivoyal Chavadi, Chennai-500 103



NTECL

Form-15 (OIL)

NTPC TAMILNADU ENERGY COMPANY LIMITED
VALLUR THERMAL POWER PROJECT

Form 19

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

Name of the Company :-

NTECL

Name of Power Station :-

Vallur Thermal Power Project

LDO

Particulars	RS/Unit	October-23	November-23	December-23
OPENING STOCK OF OIL	KL	1,389.914	1,786.889	1,239.164
VALUE OF OPENING STOCK	RS	116,187,249.690	153,262,652.370	105,258,748.640
QTY OF OIL SUPPLIED BY THE OIL CO.	KL	501.906	625.000	822.901
ADJUST. (+/-) IN QTY SUPPLIED MADE BY OIL CO.	KL	0.00	0.00	0.00
OIL SUPPLIED BY OIL COMPANY (3+4)	KL	501.906	625.000	822.901
NORMATIVE TRANSIT AND HANDLING LOSS	KL	0.00	0.00	0.00
NET OIL SUPPLIED (5-6)	KL	501.906	625.000	822.901
AMOUNT CHARGED BY OIL CO.	RS.	46,075,404.00	51,611,293.20	64,918,951.13
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY OIL CO.	RS.	-	-	-
TOTAL AMOUNT CHARGED (8+9)	RS.	46,075,404.00	51,611,293.20	64,918,951.13
TRANSPORTATION CHARGES BY RAIL/SHIP/ROAD TRANSPORT	RS.	0.00	0.00	0.00
ADJUST. (+/-) IN AMOUNT CHARGED MADE BY RAILWAY/TRANSPORT CO.	RS.	0.00	0.00	0.00
DEMURRAGE CHARGES	RS.	0.00	0.00	0.00
TOTAL TRANSPORTATION CHARGES (11+/-12)	RS.	0.00	0.00	0.00
TOTAL AMOUNT CHARGED FOR OIL SUPPLIED INCLUDING TRANSPORTATION (10+14)	RS.	46,075,404.00	51,611,293.20	64,918,951.13
WEIGHTED AVG. GCV OF OIL AS FIRED	Kcal/Litre	9,326.11	9,326.11	9,409.65
QUANTITY OF OIL AT THE STATION FOR THE MONTH (1+7)	KL	1,891.82	2,411.89	2,062.07
TOTAL AMOUNT CHARGED FOR OIL (2+15)	RS.	162,262,663.69	204,873,945.57	170,177,699.77
LANDED COST OF OIL (18/17)	RS/KL	85,770.66	84,943.36	82,527.81
QUANTITY OF OIL CONSUMED	KL	104.931	1,172.725	1,081.186
VALUE OF OIL CONSUMED (19*20)	RS	9,000,001.32	99,615,196.93	89,227,908.24
CLOSING STOCK OF OIL(17-20)	KL	1,786.889	1,239.164	980.879
VALUE OF CLOSING STOCK (18-21)	RS	153,262,652.37	105,258,748.64	80,949,791.53

K YADAGIRI
Manager (EEMG)

NTPC Taminadu Energy Company Ltd.
Vallur Thermal Power Station

P.O.: Vellivoyal Chavadi, Chennai-600 103.



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Fee Acknowledgement

Counterfoil (Office Copy)

Transaction Id.: fbb9ebe0c2a4067f20ef
Payment 19684886358
Gateway ID:
Status: success

Received From : NTPC Tamil Nadu Energy Company Limited (NTECL)

The Sum of Rs. : 6600000

Fee Type: Annual Fees for Determination of Tariff Generating Station(GT) Dated : Apr 24, 2024, 2:56 PM

Fee Mode: NB

Fee Period: 2024-25

Petitioner/ Organisation Name: NTPC Tamil Nadu Energy Company Limited (NTECL)

(fw)

K YADAGIRI
Manager (EEMG)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Station
P.O.: Vellivoyal Chavadi, Chennai-600 103.

Fee Acknowledgement

Counterfoil (Office Copy)

Transaction Id.: fbb9ebe0c2a4067f20ef
Payment 19684886358
Gateway ID:
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