



A Maharatna Company

TELANGANA SUPER THERMAL POWER STATION STAGE-I
(2X800 MW)

PETITION FOR APPROVAL OF TARIFF FROM ANTICIPATED COD
OF UNIT-I (i.e. 01.04.2023) to 31.03.2024

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO:

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Telangana Super Thermal Power Station Stage-I (2x800 MW) for the period from anticipated date of Commercial Operation of the Unit-I (i.e. 01.04.2023) to 31.03.2024.

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BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO:

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Telangana Super Thermal Power Station Stage-I (2x800 MW) for the period from anticipated date of Commercial Operation of the Unit-I (i.e. 01.04.2023) to 31.03.2024.

AND
IN THE MATTER OF

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

Respondents: 1. Telangana State Northern Power Distribution Company Ltd.
(TSNPDCL)
H.No. 2-5-31/2, Vidyut Bhavan
Nakkalagutta, Hanamkonda
Warangal – 506 001

2. Telangana State Southern Power Distribution Company Ltd.
(TSSPDCL)
Mint Compound
Corporate Office
Hyderabad – 500 063



The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd., hereinafter called 'NTPC', is a Government Company within the meaning of the Companies Act, 1956. Further, it is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) The Petitioner is having various power stations/projects throughout the country. Telangana Super Thermal Power Station Stage-I (hereinafter referred as 'Telangana STPS-I') is one such project of the Petitioner located in Karimnagar district of Telangana. Unit#1 of STPS-I has been commissioned and anticipated to be declared under commercial operation w.e.f. 01.04.2023.
- 3) The power generated from Telangana Super Thermal Power Station Stage-I (2X800 MW) shall be supplied to the respondents mentioned herein above. Further, the Ministry of Power, Government of India vide its allocation letter dtd. 25.02.2019, has allocated the power generated from this station to its beneficiary. A copy of the letter is enclosed at **Annexure-A**.
- 4) The investment approval of the Telangana STPS-I project was accorded by NTPC Board at its 429th meeting held on 29.01.2016 at an indicative estimated completed cost of Rs 11811.26 Cr including IDC & FC of Rs 1643.56 Cr and WCM of Rs 285.73 crores. Accordingly, the zero date of the project is 29.01.2016. A copy of the NTPC Board approval is enclosed in **Annexure-B** respectively.
- 5) The Hon'ble Commission, under Section 79(1)(a) and 62 of Electricity Act, 2003, is vested with the jurisdiction to regulate/determine the tariff of the Generating Companies owned or controlled by the Central Government.
- 6) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter called "Tariff Regulations 2019") for a period of 5 years which have come into force from 01.04.2019 and specify the terms & conditions and methodology of tariff



determination. The Petitioner is filing the present petition for determination of tariff of Telangana STPS Stage-I (2x800 MW) for the period from anticipated Commercial Operation date of 1st unit i.e. 01.04.2023 to 31.03.2024 as per the Tariff Regulations, 2019.

- 7) The present petition is being filed as per the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 along with the tariff forms as prescribed in the said regulation for the coal based thermal generating stations and also as per the Central Electricity Regulatory Commission (Procedure for making of application for determination of tariff, publication and other related matters) Regulations, 2004. These relevant tariff forms are enclosed as **Appendix-I**, with computation of tariff based on anticipated COD of first unit of Telangana STPS on 01.04.2023.
- 8) Unit#2 of Telangana STPS Stage-I is anticipated to be declared under Commercial Operation on 31.05.2023. Accordingly, the Annual Fixed Charges have been provisionally computed for the station (both U#1 & U#2) as per the anticipated capitalisation, as shown in Form-B of Appendix-I, subject to revision after the actual COD of the unit/station.
- 9) The tariff claimed is based on expected capitalization as on anticipated COD of Unit#1 and Unit #2 and the projected additional capital expenditure up to 31.03.2024 against the works within the original scope of work pertaining to Unit#1 of Telangana STPS-I in accordance with Regulation 24 read with Regulation 19 of the Tariff Regulations, 2019. The capital cost considered in the instant petition is based on estimated expenditure as respective dates/ period. The actual audited expenditure in respect of instant station shall be submitted before the Hon'ble Commission after actual COD of the station along with projected additional capital expenditure beyond actual COD upto 31.03.2024.
- 10) The Petitioner has filled details in Form 6 (Details of Foreign Loans) considering Exchange Rate as Rs. 82.24 per Dollar, Rs. 81.25 per Euro and Rs 0.5713 per JPY



as on 30.09.2022 as the Base Exchange rate. However, any variation in capital cost shall be submitted at the time of truing up based on actual IDC and FERV applicable up to COD. Further, extra rupee liability towards interest payment and loan repayment in the relevant years shall be recoverable / payable w.r.t. to exchange rate as applicable on COD as per provisions of Tariff Regulations 2019.

- 11) It is submitted that in the erstwhile IGAAP, the expenses paid upfront for the issuance of loan were accounted as and when incurred and the same were used to be claimed as a part of IDC during construction period. Under IndAS the upfront expenditure pertaining to expenses for issuance of bond is to be amortised over the tenure of the loan resulting in part capitalization as IDC till construction period. Since actual cash expenditure up to the COD is to be part of the capital cost, petitioner has included the unamortized part of bond issue expenses in the capital cost. Hon'ble Commission may be pleased to allow the same.
- 12) During construction period, in the erstwhile IGAAP as per Para 46A of AS-11, FERV on loan was to be capitalized and accordingly the same was claimed as part of capital cost. However, as per IndAS FERV on foreign currency loans drawn after 01.04.2016 shall not form part of Gross Block and shall be charged to the statement of Profit & Loss as Borrowing cost/FERV. However, as per Clause 19(2)(C) of Tariff Regulations 2019, in case of new projects any gain or loss on account of foreign exchange risk variation pertaining to the loan availed during the construction period shall form part of capital cost. Accordingly, petitioner has considered the FERV (incurred during construction period) on Foreign currency loan drawn after 01.04.2016 charged to P&L in the capital cost.

In terms of above, ERV gain of Rs 4497.75 Lakh on Loan drawn after 01.04.2016 transferred to profit & loss account up to 31.03.2023 and the same has been adjusted with capital cost of the project. The ERV gain/deficit upto the actual COD shall be claimed based on the audited financial statements on actual COD of U#1.

- 13) Further, In terms of Regulation 19(2)(b), equity deployed in excess of 30% of the fund deployed has been considered as normative loan and notional IDC of 533.20 Lakhs up to 31.03.2023 has been considered as part of the capital cost of the project.

Notional IDC, if any, upto the actual COD shall be claimed based on audited financial statements.

- 14) Regulation-31 of CERC Tariff Regulations 2019, provides that the effective Tax rate is to be considered for computation of Rate of pre-tax ROE. In the instant Petition, the effective tax rate of 17.472% has been considered for computation of ROE for the period 2019-24. However, the same shall be revised on year on year basis at the time of truing up.
- 15) Regulation 35(1)(6) of the Tariff Regulations 2019 provides that the water charges 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 allocation, rate of water charges as applicable for 2023-24 have been furnished below. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual water charges for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Coal
Type of cooling water system	Closed Circuit Cooling System
Allocation of Water for Telangana STPS	60 cusecs
Rate of Water charges with escalation 10% annum (excluding pumping charges)	Rs. 2.81/m3

In respect of capital spares consumption, it is submitted that the petitioner seeks liberty to claim the same as part of O&M at the time of true-up based on actual consumption.

- 16) The present petition is filed on the basis of norms specified in the Tariff Regulations 2019. It is submitted that the petitioner is in the process of installing the Emission Control Systems (ECS) and completion of these schemes will affect the station APC, Heat Rate, O&M expenses etc. 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 in true up petition in terms of the Regulation 29 of Tariff Regulations 2019.



17) That MoEF&CC Notification dated 31.12.2021 is an event of Change in Law within the terms of the Regulation 3 (10) of the Tariff Regulations 2019. The MoEF&CC has mandated that TPPs shall ensure 100% fly ash utilization by engaging with relevant user industries viz.:

- (a) Fly ash based products viz. bricks, blocks, tiles, fibre cement sheets, pipes, boards, panels;
- (b) Cement manufacturing, ready mix concrete;
- (c) Construction of road and fly over embankment, Ash and Geo-polymer based construction material;
- (d) Construction of dam;
- (e) Filling up of low lying area;
- (f) Filling of mine voids;
- (g) Manufacturing of sintered or cold bonded ash aggregate;
- (h) Agriculture in a controlled manner based on soil testing;
- (i) Construction of shoreline protection structures in coastal districts;
- (j) Export of ash to other countries; and
- (k) Any other eco-friendly purpose as notified from time to time.

18) That it must be borne in mind that pursuant to the MoEF&CC Notification dated 31.12.2021, the Petitioner shall be required to incur additional transportation cost to deliver the fly ash to industries/users such as road and flyover embankments, shoreline protection structures in coastal districts, dams within 300 kms from the TPPs and any other expenditure which is required for achieving 100% ash utilization as per the prescribed timeline. Therefore, the Notification dated 31.12.2021 has enhanced the cost of transportation to be incurred by the Petitioner to a substantial level.

19) The Petitioner filed a Petition No. 205/MP/2021 before this Hon'ble Commission seeking recovery of the ash transportation charges for its stations. On 28.10.2022, Hon'ble Commission passed an order allowing the claim of the petitioner for fly ash transportation expenditure for the period 2019-22 and also the recovery of ash



transportation charges, under change in law for the balance period (2022-24) on monthly basis from the beneficiaries in the following manner:

" 43.Petitioner is entitled for recovery of fly ash transportation charges, under change in law, as additional O&M expenses, we permit the provisional billing at 90% of the fly ash transportation charges incurred by the Petitioner, in respect of its generating stations, for the balance period (i.e. 2022-24), on a monthly basis, based on self -certification, and the beneficiaries shall pay the same accordingly. This is, however, subject to prudence check of the claims, at the time of truing-up of tariff for the period 2019-24...."

20) It is also submitted that CERC vide aforesaid order dated 28.10.2022 has hold that the additional expenditure incurred by the Petitioner towards fly ash transportation cost for the period 2019-24 in terms of the MOEF&CC notifications dated 25.1.2016 and 31.12.2021, is admissible as additional O&M expenses. Relevant para of the order are quoted as under

"25.....the Petitioner is entitled to seek additional cost towards fly ash transportation charges during the period 2019-24, in terms of compliance to MOEF&CC Notification dated 25.1.2016 and as a change in law in terms of the MOEF&CC Notification dated 31.12.2021"

"29.Accordingly, we, in exercise of the regulatory power under section 79(1)(a) of the Act, hold that the additional expenditure incurred by the Petitioner towards fly ash transportation cost for the period 2019-24, is admissible as additional O&M expenses, as the same is in terms of the MOEF&CC notifications dated 25.1.2016 and 31.12.2021, as stated in para 25 above"

21) In view of the above, it is humbly prayed before this Hon'ble Commission to allow payment of expenditure towards ash utilisation activities in terms of MOEF&CC notification dtd 31.12.2021 by the beneficiaries to the generating stations as additional O&M expenses of the Telangana generating station. It is submitted that recovery of



cost of generation and such additional mandatory charges are essential for the continued existence of generating companies. To avoid the interest payment liability of the beneficiaries it is prayed that the petitioner may be allowed to recover/ pass on the ash transportation charges after adjusting the revenue earned from sale of ash at the end of every month subject to true-up at the end of the period in line with order dated 28.10.2022 in petition no 205/MP/2021.

- 22) As per the investment approval dated 29.01.2016 the commercial operation of first unit of Telangana STPS Stage-I (2x800 MW) was envisaged in 52 months i.e 29th May'20 and the 2nd unit six months thereafter i.e. 29th Nov'20.

However, the site civil and erection works got delayed due to strict covid norms, heavy rainfall and other major reasons which were beyond the control of the petitioner have led to the delay in declaration of Commercial Operation of Telangana STPS, some of the reasons for delay are as under-

A) Restrictions on sand procurement :

The agency TATA Project Limited had issued several letters citing the difficulties in sand procurement and delay in work. The letters cited restrictions by State Government of Telangana (Sep'19 – Dec'19) owing to change in regulations. The agency vide its letters has stated that with the fresh guidelines of TSMDC dtd 18.03.2019, all earlier sand allotments were cancelled. Secondly sand allotments were to be raised vide the online portal and sand allotment for government projects would be allotted to that respective government firms only. Further TSMDC has imposed the limitation on approval and rotation of sand trucks (one sand truck can be reloaded after 5 days only). Hence erection works at site came to a standstill due to ban on sand procurement during the period. The building works and all cement related works came to a standstill. The infrastructural works progress suffered a huge setback. The copy of the letters has been enclosed as in **Annexure C**.

B) Outbreak of novel corona virus:



Force Majeure event due to outbreak of novel corona virus and its epidemic spread throughout the world has affected immensely. This outbreak has caused nationwide lockdown, and the measures of quarantining whole cities have disrupted trade by impacting the supply chains, including but not limited to Pre/post-Purchase order discussions, RFQs, drawing/documentation process, logistics, manufacturing, inspections, imports and exports of material which directly impacted the availability of manpower & materials at site. The situation due to COVID-19, has not only impaired the opportunity of revenue generation by project works but also added on to the overheads due to idling of resources, fixed establishments etc. Besides these additional expenditures, requirement of ensuring disbursement of worker's wages during lockdown period, re-mobilization cost such as arranging private transportation, additional PPE kit requirements, testing, etc had impacted and strained our contractor's financial capability. There were multiple direct & indirect effects of this unforeseen outbreak, which cannot be assessed/ estimated on a linear scale.

- Workers left the site after unlock of lockdown.
- Work started gradually from Jul'20 onwards with meagre workers available at site.
- Movement of migrant workers hampered due to transportation issue and COVID-19 guidelines. Transportation facilities could normalize only by Sep'20 onwards.
- 15 days quarantine at site were made compulsory on arrival as per NTPC guidelines.
- Working time period were reduced to 8 hours only as per NTPC Guidelines.
- Diversion of commercial Oxygen to healthcare facilities has affected entire work progress.
- Manpower strength was substantially reduced due to 2nd wave of COVID-19.
- 2nd Covid Wave led to nearly nil or very meagre (at exorbitant cost) supply of commercial oxygen for almost 3 months which impacted the operations at site and financial positions of the agencies deployed. This had intangible effect on the mobilization of resources by the agencies.

C) Heavy Rainfall :

Heavy & prolonged monsoon further delayed the Ferro-cement works. In year 2020-21 and 2021-22, heavy rainfalls were recorded. This was much more than the normal range. Heavy



rainfall led to partial stoppage of the work at various occasions. Proper storage of equipments and raw materials like sand and cement had to be ensured at site. Due to heavy rainfall work erection work at height got severely hampered. The SG work and BOP work progress got severely hampered due to heavy rainfall specially in the months from May to September. Monthly reports from Ministry of Earth Sciences (MoES) has been enclosed as in **Annexure D**.

D) Work stoppage due to NGT order on Environmental Clearance:

On 20.01.2016, Environment Clearance (EC) was accorded to Telangana Project by MoEF&CC. On 17.02.2016, EC was challenged in National Green Tribunal (NGT). On 27.05.2021, NGT passed order to keep Environmental Clearance in abeyance. On 03.06.2021 NTPC filed an Appeal in Hon'ble Supreme Court of India against NGT Order dtd 27.05.2021. On 20.07.2021 Hon'ble Supreme Court issued order for our civil appeal no. 1846 of 2021, that the construction activities should go on while the EC is in abeyance and Addl. Studies stipulated to be conducted by NTPC and report to be submitted to EAC-MoEF&CC. Accordingly, steps were taken to restore the work and remobilise the manpower as swiftly as possible. After all efforts of remobilisation and quick. The work commenced from 30.07.22. Further the clearance given by Supreme court was conditional as the petitioner was not liable to claim any equity in case if the environmental clearance would not be granted in favour of the petitioner. Hence with the given uncertainty, full fledged work could not be commenced. The NGT appeal and the supreme court order for appeal no. 1846 of 2021 has been enclosed in **Annexure E**.

It is submitted that the reasons mentioned above were beyond reasonable control of the Petitioner and have created major hurdles in project execution. In view of these reasons indicated in above paras, Hon'ble Commission may be pleased to condone the delay in declaring (anticipated) COD of Unit-1 of Telangana STPS-I. It is further submitted that the Petitioner craves liberty to further augment the reason of delay and to submit further details & documents supporting reasons of delay in declaring commercial operation of Unit # 1 in the amended petition to be filed after actual COD of the unit.

- 23) It is submitted that the petitioner has deposited the requisite filing fee of Rs. 35,20,000.00 (Rupees Thirty Five lakh Twenty Thousand Only) in accordance with



CERC (Payment of Fees) Regulations, 2012 and same is being filed as Form-I accompanied with the petition. It is further submitted that the filing fee for the subsequent years shall be deposited as per the prevailing regulations, after adjustment of fees payable for 2019-20 based on the actual COD of the respective unit(s).

- 24) At present, the instant petition is being filed seeking approval of tariff of Telangana STPS from date of anticipated COD of the Unit-I (i.e. 01.04.2023) and anticipated COD of unit-II (31.05.2023) to 31.03.2024. Further, it is submitted that since Unit -1 of Telangana STPS is likely to be declared under COD shortly and disposing the instant petition may take some time, In view of this NTPC prays that the Hon'ble Commission may be please to issue the interim tariff as per the Regulation 10(3) of CERC (Terms & Conditions of Tariff) Regulations 2019 to facilitate for billing of energy supplied to various beneficiaries after the COD of the unit based on the capital cost/ annual fixed charges claimed in the instant petition for the period till final tariff as per CERC Tariff Regulations 2019 is determined by the Hon'ble Commission.
- 25) Actual expenses on publication of notices in newspapers, as per the Central Electricity Regulatory Commission (Procedure for making of application for determination of tariff, publication and other related matters) Regulations, 2004, may be allowed to be recovered from beneficiaries / respondents.
- 26) The Petitioner craves leave of the Hon'ble Commission to make / submit additional submissions/ documents in support and oral submissions in this regard.

Prayer

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

- i) Approve / determine the capital cost and tariff of Telangana STPS-I for control period 2019-24, taking into account the submissions made herein and, in the Forms and Annexures filed herewith, permitting the Petitioner to recover Annual Fixed Cost.
- ii) Condone the delay in declaration of Unit-I under commercial operation.



- iii) Grant interim order to facilitate billing and allow the Petitioner to provisionally charge tariff from its actual date of Commercial Operation as per this petition till the time the tariff for Telangana STPS Stage-I (2 X 800 MW) is determined by Hon'ble Commission.
- iv) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.
- v) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and the publication expenses from the beneficiaries.
- vi) Pass any other order as it may deem fit in the circumstances mentioned above.


(Petitioner)

Place: Noida

Date: 10/04/2023

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION,

AT NEW DELHI

IN THE MATTER OF:

NTPC LIMITED	...Petitioner
VERSUS	
TELANGANA STATE NORTHERN POWER DISTRIBUTION CO. LTD. & OTHERS.	...Respondents

AFFIDAVIT

I, Umasankar Mohanty, S/o Shri B.K. Mohanty, aged about 55 years, R/o. D-109, Shaurya, NTPC Township, Sector-33, Noida, Uttar Pradesh, do hereby solemnly affirm and state on oath as under:

1. That I am the Additional General Manager (Commercial) in Petitioner Corporation, and I have been dealing with the above-mentioned case and I am conversant with the facts of the case. That I am duly authorized and competent to depose by way of the present affidavit.
2. That I have read the accompanying petition and I say that the contents of the same are true and correct to the best of my knowledge and derived from the record maintained by the Petitioner Company in the ordinary course of business, which believed to be true.



(Deponent)

उमाशंकर मोहंती / Umasankar Mohanty
अपर महाप्रबन्धक (वाणिज्यिक)
Addl. General Manager (Commercial)
एन टी पी सी लिमिटेड / NTPC Limited

VERIFICATION

3. I, the deponent above named, do hereby verify that the contents of the above affidavit are true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.
4. Verified at Noida on 10th day of April 2023.



(Deponent)

उमाशंकर मोहंती / Umasankar Mohanty
अपर महाप्रबन्धक (वाणिज्यिक)
Addl. General Manager (Commercial)
एनटीपीसी लिमिटेड / NTPC Limited



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

10 APR 2023

TARIFF FILING FORMS (THERMAL)
FOR DETERMINATION OF TARIFF

PART-I

APPENDIX-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary Sheet	√
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- 4	Details of Foreign loans	**
FORM - 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	NA
FORM- 6	Financial Package upto COD	√
FORM- 7	Details of Project Specific Loans	√
FORM- 8	Details of Allocation of corporate loans to various projects	√
FORM-9	Statement of Additional Capitalisation after COD	√
FORM- 10	Financing of Additional Capitalisation	√
FORM-11	Calculation of Depreciation	√
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-16	Details of Limestone for Computation of Energy Charge Rate	√
FORM-17	Details of Capital Spares	-
FORM-18	Non-Tariff Income	√
FORM-19	Details of Water Charges	√
FORM- 20	Details of Stationary Charges	√

PART-I

List of Supporting Forms/Documents for tariff filing for

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- A	Abstract of Capital Cost Estimates	√
FORM- B	Break-up of Capital Cost for Coal/Lignite based Projects	√
FORM- C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM- D	Break-up of Construction/Supply/Service packages	√
FORM- E	Details of variables, parameters, optional package etc. for New Project	√
FORM- F	Details of cost over run	**
FORM- G	Details of time over run	**
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-a-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 Works in Progress	√
FORM- N	Calculation of Interest on Normative Loans	√
FORM- O	Calculation of Interest on Working Capital	√
FORM- P	Incidental Expenditure UptoSCOD and upto actual COD	**
FORM- Q	Expenditure under different packages up to Scheduled COD and up to Actual COD	**
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 Actual CoD/true-up

** To be provide an actual CoD of Units

Summary of Tariff		PART-I FORM- I									
Name of the Petitioner: NTPC Limited											
Name of the Generating Station: Telesgana STPS Stage-I (2x800 MW)											
S. No.	Particulars	Unit	Existing	2019-20	2020-21	2021-22	2022-23	2023-24	01.04.2023 to 30.05.2023	31.05.2023 to 31.03.2024	
1	2	3	4	5	7	9	10	11			
1.1	Depreciation	Rs Lakh		-	-	-	-	36,409.68	56,136.64		
1.2	Interest on Loan	Rs Lakh		-	-	-	-	22,651.71	33,767.52		
1.3	Return on Equity	Rs Lakh		-	-	-	-	39,376.97	60,711.61		
1.4	Interest on Working Capital	Rs Lakh		-	-	-	-	8,274.64	15,753.35		
1.5	O&M Expenses	Rs Lakh		0.00	0.00	0.00	0.00	20744.06	39403.13		
1.6	Special Allowance (If applicable)	Rs Lakh	N.A.								
1.7	Compensation Allowance (If applicable - relevant for columns 4 only)	Rs Lakh									
	Total	Rs Lakh		0.00	0.00	0.00	0.00	127457.06	205772.24		
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid)	Rs/Ton						5322.21			
	(%) of Fuel Quantity	(%)						NA			
2.2	Landed Fuel Cost- Imported Coal							NA			
	(%) of Fuel Quantity							NA			
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton									
	(%) of Fuel Quantity	(%)						NA			
2.4	Landed Fuel Cost Imported Coal other than FSA.										
	(%) of Fuel Quantity										
2.5	Secondary fuel oil cost	Rs/Unit						0.0503			
	Energy Charge Rate ex-bus (Paiso/kWh)	Rs/Unit						3.635			
(Petitioner)											

Name of the Petitioner: NTPC Limited		Statement showing claimed capital cost – (A+B)						PART-I	
Name of the Generating Station: Telangana STPS Stage-I (2x800 MW)								FORM-I(I)	
		(Amount in Rs Lakh)							
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24			
1	2	3	5	6	7	8	9		
1	Opening Capital Cost	-	-	-	-	6,94,788	10,65,535		
2	Add: Addition during the year/period	-	-	-	-	8,108	23,888		
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	-	-	-	-	7,02,896	10,89,423		
7	Average Capital Cost	-	-	-	-	6,98,842	10,77,479		
Statement showing claimed capital cost eligible for RoE at normal rate (A)									
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24			
1	2	3	5	6	7	8	9		
a	Capital Cost as on CoD of Unit-I/-II	-	-	-	-	6,94,127	10,64,874		
b	Notional IDC	-	-	-	-	533	533		
c	Unamortised transaction cost	-	-	-	-	4,626	4,626		
d	FERV not taken to P&L	-	-	-	-	-4,498	-4,498		
1	Opening Capital Cost	-	-	-	-	6,94,788	10,65,535		
2	Add: Addition during the year / period	-	-	-	-	8,108	23,888		
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	-	-	-	-	7,02,896	10,89,423		

7	Average Capital Cost	-	-	-	-	-	6,98,842	10,77,479
Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)*								
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	5	6	7	8	9	
1	Opening Capital Cost							
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							
7	Average Capital Cost							
NA								
* Not applicable in the instant petition								

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Name of the Petitioner: **NTPC Limited** PART I
 Name of the Generating Station: **Telangana STPS Stage-I (2x800 MW)** FORM-I(IIB)

Statement showing Return on Equity at wtd. Avg. Normal Rate:						
Sr	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)						
1	Gross Opening Equity (Normal)					
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year					
4	Net Opening Equity (Normal)					
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)					
11	Average Equity (Normal)					
12	Rate of ROE					
13	Total ROE					

Not Applicable

by

(Petitioner)

Plant Characteristics

Name of the Petitioner : NTPC Limited

Name of the Generating Station : Telangana Thermal Power Project Stage-I (2x800MW)

Unit(s)/ Block(s) Parameters	Unit-I	Unit-II
Installed Capacity (MW)	800	800
Schedule COD as per Investment Approval	29-05-2020	29-11-2020
Actual COD /Date of Taken Over (Anticipated)	01-04-2023	31-05-2023
Pit Head or Non Pit Head	Pit Head	
Name of the Boiler Manufacture	M/s Bharat Heavy Electricals Ltd.	
Name of Turbine Generator Manufacture	M/s GE.	
Main Steams Pressure at Turbine inlet (kg/Cm2) abs	270.00	
Main Steam Temperature at Turbine inlet (oC)	600.00	
Reheat Steam Pressure at Turbine inlet (kg/Cm2)	55.85	
Reheat Steam Temperature at Turbine inlet (oC)	600.00	
Main Steam flow at Turbine inlet under MCR condition (tons /hr)	2287.51	
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	2476.58	
Unit Gross electrical output under MCR /Rated condition (MW) ²	800	
Unit Gross electrical output under VWO condition (MW) ²	840	
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	1776	
Boiler Efficiency specified by Manufacturer (%)	86.70	
Conditions on which design turbine cycle heat rate guaranteed		
% MCR	100	
% Makeup Water Consumption	0	
Design Capacity of Make up Water System	3x2800 m3/hr - for two units	
Design Capacity of Inlet Cooling System	81,967.61 cu.m/hr	
Design Cooling Water Temperature (degree C)	33	
Back Pressure	77 mm Hg	
Steam flow at super heater outlet under BMCR condition (tons/hr)	2580	
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)	281	
Steam Temperature at super heater outlet under BMCR condition (C)	603	
Steam Temperature at Reheater outlet at BMCR condition (C)	603	
Design / Guaranteed Boiler Efficiency (%)⁴	86.70 % at 100%TMCR (800MW)	
Design Fuel with and without Blending of domestic/imported coal	Coal GCV at design - 3500 Kcal/kg	
Type of Cooling Tower	IDCT	
Type of cooling system	Closed Circuit Cooling	
Type of Boiler Feed Pump	2x50% TDBFP & 1X30% MDBFP	
Type of Coal Mill	Bowl Mill	
Fuel Details		
- Primary Fuel	Coal	
-Secondary Fuel	LDO	
-Alternate Fuels		
Types of SOX control system	Provision for FGD	
Types of NOX control system	1.Separated Over fire Air Damper Control(SOFA)	
Details of SPM control system	High efficiency ESPs	
Special Features/Site Specific Features		
Special Technological Features	Ultra Supercritical & Most efficient	
Environmental Regulation related features	1. Provision for FGD. 2. High efficiency ESPs have been installed to limit particulate emission.	

Normative Parameters considered for Tariff Computations

Name of the Petitioner	NTPC Limited		
	Telangana Super Thermal Power Project Stage-I		
Name of the Generating Station	Year Ending March		
Particulars	Unit	2023-24	
		01.04.2023 to 30.05.2023	31.05.2023 to 31.03.2024
I	2	8	9
Base Rate of Return on Equity	%	15.50%	15.50%
Base Rate of Return on Equity on Add Capitalization	%	15.50%	15.50%
Effective Tax Rate	%	17.4720%	17.4720%
Target Availability	%		
In High Demand Season	%	85.00%	85.00%
Peak Hours	%	85.00%	85.00%
Off-Peak Hours	%	85.00%	85.00%
In Low Demand Season (Off Peak)	%	85.00%	85.00%
Peak Hours	%	85.00%	85.00%
Off-Peak Hours	%	85.00%	85.00%
Auxiliary Energy Consumption	%	6.25%	6.25%
Gross Station Heat Rate	kCal/kWh	2150.86	2150.86
Specific Fuel Oil Consumption	ml/kWh	0.5	0.5
Cost of Coal/Lignite for Stock for WC	in Days	40	40
Cost of Main Secondary Fuel Oil for WC	in Months	2	2
Fuel Cost for WC ²	in Months	NA	NA
Liquid Fuel Stock for WC ²	in Months	NA	NA
O & M expenses	Rs lakh/MW	20.93	20.93
Maintenance Spares for WC	% of O&M	20%	20%
Receivables for WC	in Days	45	45
Storage capacity of Primary fuel	MT	6.86 Lakhs	6.86 Lakhs
SBI 1 year MCLR + 350 basis points as on Feb '23	%	12.00%	12.00%
Blending ratio of domestic coal/imported coal		NA	NA

Petitioner

Calculation of O&M Expenses

Name of the Company : NTPC Limited
Name of the Power Station : Telangana Super Thermal Power Project Stage-1

S.No.	Particulars	Rs. in Lakh						
		2019-20	2020-21	2021-22	2022-23	2023-24	01.04.2023 to 30.05.2023	31.05.2023 to 31.03.2024
1	2	3	5	6	7	8	9	
1	O&M expenses under Reg.35(1)							
1a	Normative							
	O&M expenses ECS (FGD)					16744.00		33488.00
1b	O&M expenses-Ash Transportation					426.46		654.93
	Capital Spares Consumption*							
2	O&M expenses under Reg.35(1)							
2a	Water Charges **						1686.60	3373.20
2b	Security expenses**						1887.00	1887.00
3	Total O&M Expenses	0.00	0.00	0.00	0.00	0.00	20744.06	39403.13

* Shall be claimed at the time of revised petition on actual COD of U#1/ truing -up

** Subject to true-up

Petitioner



**PART-I
FORM-6**

as on 30.09.2022

Financial Package upto COD

Name of the Company
NTPC Limited
Telangana

Name of the Power Station
Project Cost as on COD¹

Date of Commercial Operation of t
Debt : Equity Ratio

(Amount in lacs)

1	Financial Package as on COD			As Admitted on COD	
	4	5a	Currency and Amount ³	6	7
			Upto 30.09.2022		
			FC	INR	
3.75 % Euro Bonds 2024 II	USD	82.24	1,072.76	88,224	
4.50 % Euro Bonds 2028	USD	82.24	547.29	45,010	
USD 750 Million Drawl I	USD	82.24	100.44	8,260	
USD 750 Million Drawl II	USD	82.24	170.27	14,003	
Sub-Total	USD		1,890.76	1,55,496.48	
2.75 % Euro Bonds 2027	EUR	81.25	217.45	17,668	
Euro Loan I Drawl I	EUR	81.25	118.87	9,658	
Euro Loan I Drawl II	EUR	81.25	73.10	5,939	
Euro Loan I Drawl III	EUR	81.25	154.44	12,548	
Sub-Total	EUR		563.85	45,813.09	
JPY Equ. 300Million A	JPY	0.5713	32,096	18,336	
JPY Equ. 300Million B	JPY	0.5713	48,249	27,565	
JPY Equ. 350Million A	JPY	0.5713	9,545	5,453	
JPY Equ. 350Million B	JPY	0.5713	18,320	10,466	
JPY Equ. 750 Million I	JPY	0.5713	56,590	32,330	
JPY Equ. 750 Million II	JPY	0.5713	25,025	14,007	

FORM-6

as on 30.09.2022

Financial Package upto COD

NTPC Limited
TelanganaName of the Company
Name of the Power StationProject Cost as on COD¹

Date of Commercial Operation of t

Debt : Equity Ratio

		Financial Package as on COD (Amount in lacs)					As Admitted on COD	
1		Currency and Amount ³			5	6	7	
4	5a							
JPY Equ. 750 Million III	JPY	0.5713	22,365	12,777				
JPY Equ. 750 Million IV	JPY	0.5713	14,094	8,052				
JPY Equ. 750 Million V	JPY	0.5713	14,660	8,376				
JPY Equ. 750 Million VI	JPY	0.5713	18,806	10,744				
Sub-Total			2,59,750.30	1,48,395.34				
7.25 % Masala Bonds 2022	INR	1	8,841.57	8,841.57				
Sub-Total	INR		8,841.57	8,841.57				
AXIS Bank-II	INR			2,000.00				
Axis Bank-III	INR			13,000.00				
HDFC Bank Limited-III	INR			2,400.00				
HDFC Bank Limited-IV	INR			11,500.00				
HDFC Bank Limited-V	INR			11,800.00				
HDFC Bank Ltd. VI	INR			7,200.00				
HDFC Bank Limited-VII	INR			8,000.00				
HDFC-IX	INR			15,500.00				
HDFC-X	INR			11,100.00				
IDFC-III	INR			15,000.00				
IDFC Bank-IV	INR			7,500.00				
PNB-V	INR			4,600.00				
State Bank of India - VIII	INR			22,500.00				
State Bank of India - IX	INR			16,600.00				

FORM-6

as on 30.09.2022

Financial Package upto COD

NTPC Limited

Telangana

Name of the Company

Name of the Power Station

Project Cost as on COD¹

Date of Commercial Operation of t

Debt : Equity Ratio

(Amount in lacs)

1	Financial Package as on COD			As Admitted on COD	
	4	5a	Currency and Amount ³	6	7
State Bank of India - X	INR		12,000.00		
State Bank of India - XI	INR		38,500.00		
State Bank of India - XII	INR		40,500.00		
Syndicate Bank-IV	INR		13,000.00		
Sub-Total	INR		2,52,700.00		
61			11,700.00		
66			5,800.00		
69			37,000.00		
73			9,725.00		
74			20,300.00		
75			9,200.00		
76			6,800.00		
78			8,678.00		
Sub-Total	INR		1,09,203.00		
Less Repayment			57,252.00		
Total	INR		6,63,197.49		
Equity- Foreign					
Domestic	INR				

2

FORM-6

as on 30.09.2022

Financial Package upto COD

NTPC Limited
Telangana

Name of the Company
Name of the Power Station
Project Cost as on COD¹

Date of Commercial Operation of t
Debt : Equity Ratio

		(Amount in lacs)		As Admitted on COD	
		Financial Package as on COD		Currency and Amount ³	
		Currency and Amount ³		Currency and Amount ³	
		4	5a	5	6
				7	
1					
Total Equity					

PETITIONER

PETITIONER

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

TRANCHE NO
T00001 D00003

SP NO 000000001		TRANCHE NO		D00003	
Unallocated Loan from NDC Bank L.M. V					
Source of Loan	NDC Bank L.M. V				
Currency	USD				
Amount of Loan	25,00,00,000				
Loan Disbursal amount	25,00,00,000				
Date of start	13.11.2017				
Interest Type	Floating				
Fixed Interest Rate	7.50%				
Loan Rate, # Floating Interest	7.50%				
Margin, # Floating Interest	0%				
Are there any Capex / floor	No				
Frequency of Int. Payment	MONTHLY				
# Months in year, specify Capex / floor					
Maturity Period	8 Years				
Maturity effective from	13.11.2017				
Repayment Period (for Maturity)	13 Years				
Repayment Frequency	3 Years Installment				
Repayment Type	AVD				
First Repayment Date	24.09.2024				
Date & Exchange Rate	N/A				
Date of Base Exchange Rate	N/A				
Project Code	Project Name	Amount			
	PAVIA BAY/WADIA COAL, MINE	77,00,00,000	13.11.2017	T00001	D00003
	BOHANGALAYA	25,00,00,000	13.11.2017	T00001	D00003
	TELANGANA	12,00,00,000	13.11.2017	T00001	D00003
	BARHUB	10,00,00,000	13.11.2017	T00001	D00003
	BOHANGAL WADIA	11,00,00,000	13.11.2017	T00001	D00003
	LASA	10,00,00,000	13.11.2017	T00001	D00003
	CHAITI BAY/WADIA COAL	10,00,00,000	13.11.2017	T00001	D00003
	BOHANGAL COAL, MINE	10,00,00,000	13.11.2017	T00001	D00003
		8,00,00,000	13.11.2017	T00001	D00003
	Total Allocated Amount	2,00,00,00,000			

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

TRANCHE NO
T00001 D00004

SP NO 000000001		TRANCHE NO		D00004	
Unallocated Loan from NDC Bank L.M. V					
Source of Loan	NDC Bank L.M. V				
Currency	USD				
Amount of Loan	25,00,00,000				
Loan Disbursal amount	25,00,00,000				
Date of start	17.12.2017				
Interest Type	Floating				
Fixed Interest Rate	7.50%				
Loan Rate, # Floating Interest	7.50%				
Margin, # Floating Interest	0%				
Are there any Capex / floor	No				
Frequency of Int. Payment	MONTHLY				
# Months in year, specify Capex / floor					
Maturity Period	8 Years				
Maturity effective from	17.12.2017				
Repayment Period (for Maturity)	13 Years				
Repayment Frequency	3 Years Installment				
Repayment Type	AVD				
First Repayment Date	24.09.2024				
Date & Exchange Rate	N/A				
Date of Base Exchange Rate	N/A				
Project Code	Project Name	Amount			
	PAVIA BAY/WADIA	20,00,00,000	17.12.2017	D00004	
	TELANGANA	10,00,00,000	17.12.2017	D00004	
		10,00,00,000	17.12.2017	D00004	
	Total Allocated Amount	4,00,00,00,000			

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

TRANCHE NO
T00001 D00010

SP NO 000000001		TRANCHE NO		D00010	
Unallocated Loan from NDC Bank L.M. V					
Source of Loan	NDC Bank L.M. V				
Currency	USD				
Amount of Loan	25,00,00,000				
Loan Disbursal amount	25,00,00,000				
Date of start	28.09.2018				
Interest Type	Floating				
Fixed Interest Rate	7.50%				
Loan Rate, # Floating Interest	7.50%				
Margin, # Floating Interest	0%				
Are there any Capex / floor	No				
Frequency of Int. Payment	MONTHLY				
# Months in year, specify Capex / floor					
Maturity Period	8 Years				
Maturity effective from	28.09.2018				
Repayment Period (for Maturity)	13 Years				
Repayment Frequency	3 Years Installment				
Repayment Type	AVD				
First Repayment Date	28.09.2024				
Date & Exchange Rate	N/A				
Date of Base Exchange Rate	N/A				
Project Code	Project Name	Amount			
	BOHANGALAYA	20,00,00,000	28.09.2018	T00001	D00010
	LASA	2,25,00,00,000	28.09.2018	T00001	D00010
	PAVIA BAY/WADIA	2,25,00,00,000	28.09.2018	T00001	D00010
	TELANGANA	25,00,00,000	28.09.2018	T00001	D00010
	PAVIA BAY/WADIA	25,00,00,000	28.09.2018	T00001	D00010
	PAVIA BAY/WADIA	1,25,00,00,000	28.09.2018	T00001	D00010
	PAVIA BAY/WADIA	25,00,00,000	28.09.2018	T00001	D00010
	PAVIA BAY/WADIA	25,00,00,000	28.09.2018	T00001	D00010
	Total Allocated Amount	7,00,00,00,000			

Statement Giving Details of Project Financed through a Combination of loan
Form 8
TRANCHE NO

Base Rate / Floating Interest	000000 8.80%	
Margin / Floating Interest	0%	
Avx Rate and Cap/Floor	0%	
Frequency of Int. Payment	MONTHLY	
If Above is not, specify Cap/Floor		
Maturity Period	5 Years	
Maturity effective from	18.08.2014	
Repayment Period (In Maturity)	15 Years	
Repayment Frequency	10 Years Installment	
Repayment Type	AVD	
Last Repayment Date	15.04.2020	
Base Exchange Rate	RUPEE	
Date of Base Exchange Rate	N.A.	
Project Code	Project Name	Amount
	00000	1,50,00,00,000
Total Allocated Amount		1,50,00,00,000

loan for Rs. 1,50,00,00,000/- CHANGED FROM KUDG TO TELANGANA M.E.T. 8.08.2014
18.08.2014 TR001 00000 8.80%

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

BP NO 000000001		TRANCHE NO		00001	
Statement Giving Details of Project Financed through a Combination of loan					
Form B					
TR001					
00001					
Unsecured Loan From SFC Bank IV					
Source of Loan	SFC Bank IV				
Currency	INR				
Amount of Loan	20,00,00,00,000				
Total Drawn amount	20,00,00,00,000				
Date of Drawal	12.02.2018				
Interest Type	Floating				
Fixed Interest Rate					
Base Rate / Floating Interest	7.80%				
Margin / Floating Interest	0%				
Avx Rate and Cap/Floor	0%				
Frequency of Int. Payment	MONTHLY				
If Above is not, specify Cap/Floor					
Maturity Period	5 Years				
Maturity effective from	12.02.2018				
Repayment Period (In Maturity)	15 Years				
Repayment Frequency	8 Years Installment				
Repayment Type	AVD				
Last Repayment Date	12.02.2023				
Base Exchange Rate	RUPEE				
Date of Base Exchange Rate	N.A.				
Project Code	Project Name	Amount			
	BARDA	50,00,00,00,00	12.02.2018		
	JAGANNARA	50,00,00,00,00	12.02.2018		
	ROHINI KARNAPUR	40,00,00,00,00	12.02.2018		
	TELANGANA	40,00,00,00,00	12.02.2018		
	PARLI BARNACH CMB	20,00,00,00,00	12.02.2018		
Total Allocated Amount		2,00,00,00,000			

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

BP NO 000000001		TRANCHE NO		00001	
Statement Giving Details of Project Financed through a Combination of loan					
Form B					
TR001					
00001					
Unsecured Loan From SFC Bank IV					
Source of Loan	SFC Bank IV				
Currency	INR				
Amount of Loan	20,00,00,00,000				
Total Drawn amount	20,00,00,00,000				
Date of Drawal	28.02.2018				
Interest Type	Floating				
Fixed Interest Rate					
Base Rate / Floating Interest	7.80%				
Margin / Floating Interest	0%				
Avx Rate and Cap/Floor	0%				
Frequency of Int. Payment	MONTHLY				
If Above is not, specify Cap/Floor					
Maturity Period	5 Years				
Maturity effective from	28.02.2018				
Repayment Period (In Maturity)	15 Years				
Repayment Frequency	8 Years Installment				
Repayment Type	AVD				
Last Repayment Date	12.02.2023				
Base Exchange Rate	RUPEE				
Date of Base Exchange Rate	N.A.				
Project Code	Project Name	Amount			
	BARDA	40,00,00,00,00	28.02.2018	7.80%	
	ASA	1,00,00,00,00,00	28.02.2018	7.80%	
	JAGANNARA	20,00,00,00,00	28.02.2018	7.80%	
	TELANGANA	20,00,00,00,00	28.02.2018	7.80%	
Total Allocated Amount		1,00,00,00,000			

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

BP NO 000000001		TRANCHE NO		00001	
Statement Giving Details of Project Financed through a Combination of loan					
Form B					
TR001					
00001					
Unsecured Loan From Punjab National Bank IV					
Source of Loan	Punjab National Bank IV				
Currency	INR				
Amount of Loan	20,00,00,00,000				
Total Drawn amount	20,00,00,00,000				
Date of Drawal	18.04.2011				
Interest Type	Floating				
Fixed Interest Rate					
Base Rate / Floating Interest	8.00%				
Margin / Floating Interest	0.00%				
Avx Rate and Cap/Floor	0%				
Frequency of Int. Payment	MONTHLY				

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If Above 9 yrs, specify Cash Flow		
Maturity Period	3 Years	
Maturity effective from	15.06.2021	
Repayment Period (in Months)	15 Years	
Repayment Frequency	12 Years Installment	
Repayment Type	AVD	
Last Repayment Date	31.03.2024	
Base Exchange Rate	INR/E	
Date of Base Exchange Rate	N/A	
Project Code	Project Name	Amount
	BARH	19,00,00,000.00 15.06.2021
	NORTH KARAPUR	19,00,00,000.00 15.06.2021
	CHALAPALI	29,00,00,000.00 15.06.2021
	TANGAP	
	MANAM	7,00,00,000.00 15.06.2021
	TELANGANA	1,00,00,000.00 15.06.2021
	TALAPATI/AV/132	2,00,00,000.00 15.06.2021
Total Allocated Amount		47,00,00,000.00

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Form B
TRANCHE NO
TR001

RP NO 000000121

Unsecured Loan From Punjab National Bank-V

Source of Loan: Punjab National Bank-V
Currency: INR
Amount of Loan: 40,00,00,000
Cash Disbursed Amount: 4,00,00,000
Date of Grant: 14.07.2021
Interest Type: Floating
Fixed Interest Rate: -
Base Rate, if Floating Interest: 5.75%
Margin, if Floating Interest: 0.00%
Are there any Cash Flows: No
Frequency of Int. Payment: Monthly
If Above 9 yrs, specify Cash Flow: -
Maturity Period: 3 Years
Maturity effective from: 14.07.2021
Repayment Period (in Months): 15 Years
Repayment Frequency: 12 Years Installment
Repayment Type: AVD
Last Repayment Date: 31.03.2024
Base Exchange Rate: INR/E
Date of Base Exchange Rate: N/A

Project Code	Project Name	Amount		
	BARH	40,00,00,000.00	14.07.2021	14.07.2021
	TALAPATI/AV/132	4,00,00,000.00	14.07.2021	14.07.2021
Total Allocated Amount		44,00,00,000.00		

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Statement Giving Details of Project Financed through a Combination of loan
Form B
TRANCHE NO
TR001

RP NO 000000042

Unsecured Loan from SBI-V

Source of Loan: SBI-V
Currency: INR
Amount of Loan: 1,00,00,00,000
Cash Disbursed Amount: 2,25,00,000
Date of Grant: 29.04.2018
Interest Type: Floating
Fixed Interest Rate: -
Base Rate, if Floating Interest: 200002 @ 10%
Margin, if Floating Interest: 0.00%
Are there any Cash Flows: No
Frequency of Int. Payment: Monthly
If Above 9 yrs, specify Cash Flow: -
Maturity Period: 3 Years
Maturity effective from: 29.04.2018
Repayment Period (in Months): 15 Years
Repayment Frequency: 12 Years Installment
Repayment Type: AVD
Last Repayment Date: 31.03.2022
Base Exchange Rate: INR/E
Date of Base Exchange Rate: N/A

Project Code	Project Name	Amount		
	TELANGANA	2,25,00,000.00	29.04.2018	3.00% 00002
Total Allocated Amount		2,25,00,000.00		

Statement Giving Details of Project Financed through a Combination of loan
Form B
TRANCHE NO
TR001

RP NO 000000031

Unsecured Loan From SBI-V

Source of Loan: SBI-V
Currency: INR
Amount of Loan: 20,00,00,000
Cash Disbursed Amount: 1,00,00,000
Date of Grant: 24.05.2017
Interest Type: Floating
Fixed Interest Rate: -
Base Rate, if Floating Interest: 7.00%
Margin, if Floating Interest: 0.00%
Are there any Cash Flows: No
Frequency of Int. Payment: Monthly
If Above 9 yrs, specify Cash Flow: -
Maturity Period: 3 Years
Maturity effective from: 24.05.2017
Repayment Period (in Months): 12 Years
Repayment Frequency: 12 Years Installment
Repayment Type: AVD
Last Repayment Date: 31.03.2020
Base Exchange Rate: INR/E
Date of Base Exchange Rate: N/A

Project Code	Project Name	Amount		
	SARMI	54,000,000.00	24.05.2017	7.80% D0002
	TAMOVAN VEDHUGAMA	18,000,000.00	24.05.2017	7.80% D0002
	BOGGANAH	20,000,000.00	24.05.2017	7.80% D0002
	TANGA B	22,000,000.00	24.05.2017	7.80% D0002
	TELANGANA	12,000,000.00	24.05.2017	7.80% D0002
	WALAWA	18,000,000.00	24.05.2017	7.80% D0002
	PAPRI SARAWATI CMB	50,000,000.00	24.05.2017	7.80% D0002
Total Allocated Amount		2,00,00,000.00		

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

SP NO. 001000011 TRANCHE NO. 00001 0001

Unsecured Loan From SBCL

Source of Loan: SBCL
Currency: INR
Amount of Loan: 50,00,00,000
Total Disbursed Amount: 5,00,00,000
Date of Disbursal: 20.08.2018
Interest Type: Floating
Fixed Interest Rate: ---
Base Rate, if Floating Interest: 7.80%
Margin, if Floating Interest: 0.00%
Are there any Legal Fees: No
Frequency of Int. Payment: Monthly
If Above is yes, specify Legal Fees:
Maturity Period: 3 Years
Maturity effective from: 20.08.2018
Maturity Period (for Maturity): 12 Years
Repayment Frequency: 9 Yearly Installments
Repayment Type: FID
First Repayment Date: 31.03.2019
Base Exchange Rate: INR/USD
Date of Base Exchange Rate: N/A

Project Code	Project Name	Amount		
	SARMI	80,00,00,000	20.08.2018	7.80%
	TAMOVAN VEDHUGAMA	20,00,00,000	20.08.2018	7.80%
	BOGGANAH	8,00,00,000	20.08.2018	7.80%
	TANGA B	12,00,00,000	20.08.2018	7.80%
	WALAWA	20,00,00,000	20.08.2018	7.80%
	TELANGANA	10,00,00,000	20.08.2018	7.80%
	MAJALAH	1,00,00,000	20.08.2018	7.80%
	SHADLA SOALE PV	1,00,00,000	20.08.2018	7.80%
	POURAM, BONG	5,00,00,000	20.08.2018	7.80%
	PAPRI SARAWATI CMB	1,20,00,00,000	20.08.2018	7.80%
	GOATU BANWATI CMB	8,00,00,000	20.08.2018	7.80%
	TELANGANA COAL MINE	1,00,00,000	20.08.2018	7.80%
	TALAPAL COAL MINE	1,00,00,000	20.08.2018	7.80%
Total Allocated Amount		2,00,00,00,000		

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

SP NO. 001000011 TRANCHE NO. 00001 0001

Unsecured Loan From SBCL

Source of Loan: SBCL
Currency: INR
Amount of Loan: 50,00,00,000
Total Disbursed Amount: 22,00,00,000
Date of Disbursal: 27.08.2018
Interest Type: Floating
Fixed Interest Rate: ---
Base Rate, if Floating Interest: 7.80%
Margin, if Floating Interest: 0.00%
Are there any Legal Fees: No
Frequency of Int. Payment: Monthly
If Above is yes, specify Legal Fees:
Maturity Period: 3 Years
Maturity effective from: 27.08.2018
Maturity Period (for Maturity): 12 Years
Repayment Frequency: 7 Yearly Installments
Repayment Type: FID
First Repayment Date: 31.03.2019
Base Exchange Rate: INR/USD
Date of Base Exchange Rate: N/A

Project Code	Project Name	Amount		
	SARMI	25,00,00,000	27.08.2018	7.80%
	TANGA B	30,00,00,000	27.08.2018	7.80%
	TELANGANA	20,00,00,000	27.08.2018	7.80%
	BRAMOUNJAM RAW	20,00,00,000	27.08.2018	7.80%
	TALCHER STOP RAW	25,00,00,000	27.08.2018	7.80%
	KALAIJASHI RAW	25,00,00,000	27.08.2018	7.80%
	PAPRI SARAWATI CMB	20,00,00,000	27.08.2018	7.80%
Total Allocated Amount		2,00,00,00,000		

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

SP NO. 001000011 TRANCHE NO. 00001 0011

Unsecured Loan From SBCL

Source of Loan: SBCL
Currency: INR
Amount of Loan: 20,00,00,000
Total Disbursed Amount: 13,12,00,000
Date of Disbursal: 10.08.2018
Interest Type: Floating

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Fixed Interest Rate	
Base Rate, if Floating Interest	7.80%
Margin, if Floating Interest	0.20%
Are there any Cap/Floor	Yes
Frequency of Int. Payment	Monthly
If Above is yes, specify Cap/Floor	
Maturity Period	8 Years
Maturity effective from	28.08.2018
Repayment Period (in Months)	12 Years
Repayment Frequency	8 Years Installments
Repayment Type	AVD
First Repayment Date	31.03.2021
Base Exchange Rate	INR/USD
Date of Base Exchange Rate	N/A

Project Code	Project Name	Amount		
	IC P&A	8.85,00,00,000	28.08.2018	7.80%
	SAHJOL	40,00,00,000	28.08.2018	7.80%
	TARPOVAL YEDOTHY/SAHJOL	13,00,00,000	28.08.2018	7.80%
	POHARASAM	13,00,00,000	28.08.2018	7.80%
	SOULASH	20,00,00,000	28.08.2018	7.80%
	LAKSA	24,00,00,000	28.08.2018	7.80%
	SAHJOLWARRA	1,00,00,00,000	28.08.2018	7.80%
	NORTH KARNATAKHA	90,00,00,000	28.08.2018	7.80%
	SAHJOL P&A	41,00,00,000	28.08.2018	7.80%
	TANJAVUR	80,00,00,000	28.08.2018	7.80%
	KARNATAKA	13,00,00,000	28.08.2018	7.80%
	KARNATAKA	13,00,00,000	28.08.2018	7.80%
	TELANGANA	13,00,00,000	28.08.2018	7.80%
	TP&A	13,00,00,000	28.08.2018	7.80%
	POHARASAM, SAHJOL	13,00,00,000	28.08.2018	7.80%
	TELANGANA, SAHJOL	13,00,00,000	28.08.2018	7.80%
	POHARASAM, SAHJOL	41,00,00,000	28.08.2018	7.80%
Total Allocated Amount		13,70,00,00,000.00		

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

BP NO: 000000001		TRANCHE NO	
		100001	000002
Unsecured Loan From SBCL			
Source of Loan	SBCL		
Contact	SBCL		
Amount of Loan	41,00,00,00,000		
Total Drawn amount	1,00,00,00,000		
Date of Disbursal	04.10.2017		
Interest Type	Floating		
Fixed Interest Rate			
Base Rate, if Floating Interest	7.80%		
Margin, if Floating Interest	0.20%		
Are there any Cap/Floor	Yes		
Frequency of Int. Payment	Monthly		
If Above is yes, specify Cap/Floor			
Maturity Period	8 Years		
Maturity effective from	04.10.2017		
Repayment Period (in Months)	12 Years		
Repayment Frequency	8 Years Installments		
Repayment Type	AVD		
First Repayment Date	01.10.2024		
Base Exchange Rate	INR/USD		
Date of Base Exchange Rate	N/A		

Project Code	Project Name	Amount		
	SOULASH	20,00,00,000	04.10.2017	7.80% 000002
	LAKSA	24,00,00,000	04.10.2017	7.80% 000002
	SAHJOL P&A	25,00,00,000	04.10.2017	7.80% 000002
	TANJAVUR	25,00,00,000	04.10.2017	7.80% 000002
	KARNATAKA	20,00,00,000	04.10.2017	7.80% 000002
	TELANGANA	13,00,00,000	04.10.2017	7.80% 000002
	SAHJOL	13,00,00,000	04.10.2017	7.80% 000002
	POHARASAM	20,00,00,000	04.10.2017	7.80% 000002
	FRANIS BAIWASHI CHE	20,00,00,000	04.10.2017	7.80% 000002
Total Allocated Amount		2,00,00,00,000.00		

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

BP NO: 000000001		TRANCHE NO	
		100001	000004
Unsecured Loan From SBCL			
Source of Loan	SBCL		
Contact	SBCL		
Amount of Loan	40,00,00,00,000		
Total Drawn amount	1,00,00,00,000		
Date of Disbursal	21.12.2017		
Interest Type	Floating		
Fixed Interest Rate			
Base Rate, if Floating Interest	7.80%		
Margin, if Floating Interest	0.20%		
Are there any Cap/Floor	Yes		
Frequency of Int. Payment	Monthly		
If Above is yes, specify Cap/Floor			
Maturity Period	8 Years		
Maturity effective from	21.12.2017		
Repayment Period (in Months)	12 Years		
Repayment Frequency	8 Years Installments		
Repayment Type	AVD		
First Repayment Date	21.12.2024		
Base Exchange Rate	INR/USD		
Date of Base Exchange Rate	N/A		

Project Code	Project Name	Amount		
	TELANGANA	13,00,00,000	21.12.2017	7.80% 000004
	SAHJOL	13,00,00,000	21.12.2017	7.80% 000004
	SAHJOL	3,00,00,000	21.12.2017	7.80% 000004
	POHARASAM/SAHJOL	11,00,00,000	21.12.2017	7.80% 000004
Total Allocated Amount		1,00,00,00,000.00		

Statement Giving Details of Project Financed through a Combination of loan

for

INDUSTRIAL B&B	14,00,00,000	22.11.2018	8.25%
PARANGA B&B	12,00,00,000	22.11.2018	8.25%
KADAPATI B&B	10,00,00,000	22.11.2018	8.25%
KADAPATI	8,00,00,000	22.11.2018	8.25%
TELANGANA	1,00,00,000		
Total Allocated Amount	5,00,00,00,000		

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

RP NO 20200001	TRANCHE NO	00000
Unsecured Loan From B&B		
Source of Loan	B&B	
Currency	INR	
Amount of Loan	50,00,00,000	
Loan Disbursal amount	11,00,00,000	
Date of Disbursal	11.12.2018	
Interest Type	Flatting	
Fixed Interest Rate		
Base Rate, F/Floating Interest	8.25%	
Margin, F/Floating Interest	0.00%	
Are there any Capex Floor	Yes	
Frequency of PM Payment	Monthly	
F Above is per, Specify Capex Floor		
Maturity Period	8 Years	
Maturity effective from	11.12.2018	
Maturity Period (in Months)	12 Years	
Equipment Frequency	8 Years Installments	
Equipment Type	AVIO	
First Repayment Date	01.02.2019	
Base Exchange Rate	INR/USD	
Date of Base Exchange Rate	N/A	
Project Code	Project Name	Amount
	BARAH	8,00,00,000 11.12.2018 8.25%
	TAPYVAN VEDHAGIRI	7,00,00,000 11.12.2018 8.25%
	BOLAPUR	12,00,00,000 11.12.2018 8.25%
	BARAH	40,00,00,000 11.12.2018 8.25%
	CHANDAPUR	75,00,00,000 11.12.2018 8.25%
	NORTH CHANDAPUR	25,00,00,000 11.12.2018 8.25%
	DARUPALI	40,00,00,000 11.12.2018 8.25%
	TANGA	40,00,00,000 11.12.2018 8.25%
	KADAPATI	40,00,00,000 11.12.2018 8.25%
	TELANGANA	1,00,00,000 11.12.2018 8.25%
	INDUSTRIAL B&B	20,00,00,000 11.12.2018 8.25%
	PARANGUAM B&B	20,00,00,000 11.12.2018 8.25%
Total Allocated Amount		5,00,00,00,000

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

RP NO 20200001	TRANCHE NO	00001
Unsecured Loan From B&B		
Source of Loan	B&B	
Currency	INR	
Amount of Loan	50,00,00,000	
Loan Disbursal amount	11,00,00,000	
Date of Disbursal	11.12.2018	
Interest Type	Flatting	
Fixed Interest Rate		
Base Rate, F/Floating Interest	8.25%	
Margin, F/Floating Interest	0.00%	
Are there any Capex Floor	Yes	
Frequency of PM Payment	Monthly	
F Above is per, Specify Capex Floor		
Maturity Period	8 Years	
Maturity effective from	11.12.2018	
Maturity Period (in Months)	12 Years	
Equipment Frequency	8 Years Installments	
Equipment Type	AVIO	
First Repayment Date	01.02.2019	
Base Exchange Rate	INR/USD	
Date of Base Exchange Rate	N/A	
Project Code	Project Name	Amount
	BARAH	1,00,00,00,000 11.12.2018 8.25%
	TAPYVAN VEDHAGIRI	15,00,00,000 11.12.2018 8.25%
	BOLAPUR	40,00,00,000 11.12.2018 8.25%
	BARAH	40,00,00,000 11.12.2018 8.25%
	CHANDAPUR	40,00,00,000 11.12.2018 8.25%
	NORTH CHANDAPUR	25,00,00,000 11.12.2018 8.25%
	DARUPALI	40,00,00,000 11.12.2018 8.25%
	TANGA	40,00,00,000 11.12.2018 8.25%
	KADAPATI	40,00,00,000 11.12.2018 8.25%
	TELANGANA	70,00,00,000 11.12.2018 8.25%
	INDUSTRIAL B&B	15,00,00,000 11.12.2018 8.25%
	PARANGUAM B&B	20,00,00,000 11.12.2018 8.25%
	DARUPALI	20,00,00,000 11.12.2018 8.25%
	CHANDAPUR	40,00,00,000 11.12.2018 8.25%
	MURUPALI	20,00,00,000 11.12.2018 8.25%
Total Allocated Amount		7,00,00,00,000

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

RP NO 20200001	TRANCHE NO	00002
Unsecured Loan From B&B		
Source of Loan	B&B	
Currency	INR	
Amount of Loan	50,00,00,000	
Loan Disbursal amount	11,00,00,000	
Date of Disbursal	11.12.2018	
Interest Type	Flatting	
Fixed Interest Rate		
Base Rate, F/Floating Interest	8.25%	
Margin, F/Floating Interest	0.00%	
Are there any Capex Floor	Yes	
Frequency of PM Payment	Monthly	
F Above is per, Specify Capex Floor		
Maturity Period	8 Years	
Maturity effective from	11.12.2018	
Maturity Period (in Months)	12 Years	
Equipment Frequency	8 Years Installments	

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Measurement Type	AVG			
Task/Project/Date	31.03.2019			
State Exchange Rate	RUPEE			
Date of State Exchange Rate	N/A			
Project Code	Project Name	Amount		
	BARAH	90,00,000.00	18.02.2019	8.35%
	FARAKKAL	24,50,000.00	18.02.2019	8.35%
	GADARWANA	80,00,000.00	18.02.2019	8.35%
	HOOBARI	23,00,000.00	18.02.2019	8.35%
	LARA	8,00,00,000.00	18.02.2019	8.35%
	MOUNDA	1,00,00,000.00	18.02.2019	8.35%
	MOUNDA	7,25,00,000.00	18.02.2019	8.35%
	MULPAH	83,00,000.00	18.02.2019	8.35%
	NORTH KARAKHOLA	10,40,00,000.00	18.02.2019	8.35%
	NORTH BAYWASHI CWS	1,20,00,000.00	18.02.2019	8.35%
	SHARDA	21,00,000.00	18.02.2019	8.35%
	TELANGANA	2,40,00,000.00	18.02.2019	8.35%
	MUMBAI	78,00,000.00	18.02.2019	8.35%
	BARAH	90,00,000.00	18.02.2019	8.35%
	NORTH KARAKHOLA	80,00,000.00	18.02.2019	8.35%
	LAPORAN VISHUWASARI	20,00,000.00	18.02.2019	8.35%
	TELANGANA	1,80,00,000.00	18.02.2019	8.35%
Total Allocated Amount		11,91,80,00,000.00		

Statement Giving Details of Project Financed through a Combination of loan

Form B
TRANCHE NO
TR0001

SP NO 000000741
UNALLOCATED Loan From 000108
000001

Source of Loan	IBRD			
Currency	USD			
Amount of Loan	50,00,00,000.00			
Unl. Loan amount	13,00,00,000.00			
Date of Interest	28.03.2019			
Interest Rate	Fixed			
Unl. Interest Rate				
Base Rate, if Floating Interest	8.35%			
Margin, if Floating Interest	0%			
Are there any Legal Fees?	Yes			
Frequency of Int. Payment	Monthly			
If Above is yes, specify Cash Flow				
Maturity Period	8 Years			
Maturity effective from	28.03.2019			
Payment Period (in Months)	15 Years			
Payment Frequency	8 Years Installments			
Payment Type	AVG			
Task/Project/Date	31.03.2019			
State Exchange Rate	RUPEE			
Date of State Exchange Rate	N/A			
Project Code	Project Name	Amount		
	BARAH	45,00,00,000.00	28.03.2019	8.35%
	VISHUWASARI	1,20,00,000.00	28.03.2019	8.35%
	LARA	30,00,000.00	28.03.2019	8.35%
	NORTH KARAKHOLA	30,00,000.00	28.03.2019	8.35%
	GADARWANA	90,00,000.00	18.02.2019	8.35%
	MULPAH	41,00,000.00	18.02.2019	8.35%
	TANGAI	20,00,000.00	28.03.2019	8.35%
	SHARDA	80,00,000.00	28.03.2019	8.35%
	TELANGANA	80,00,000.00	28.03.2019	8.35%
	UNALOK BARAH	80,00,000.00	28.03.2019	8.35%
	OLANGA	13,00,000.00	28.03.2019	8.35%
	TALAPALI	13,00,000.00	28.03.2019	8.35%
	MUMBAI	8,00,000.00	28.03.2019	8.35%
Total Allocated Amount		5,00,00,00,000.00		

Statement Giving Details of Project Financed through a Combination of loan

Form B
TRANCHE NO
TR0004

SP NO 000000741
UNALLOCATED Loan From 000108
000004

Source of Loan	IBRD			
Currency	USD			
Amount of Loan	50,00,00,000.00			
Unl. Loan amount	13,00,00,000.00			
Date of Interest	12.04.2019			
Interest Rate	Fixed			
Unl. Interest Rate				
Base Rate, if Floating Interest	8.35%			
Margin, if Floating Interest	0%			
Are there any Legal Fees?	Yes			
Frequency of Int. Payment	Monthly			
If Above is yes, specify Cash Flow				
Maturity Period	8 Years			
Maturity effective from	12.04.2019			
Payment Period (in Months)	15 Years			
Payment Frequency	8 Years Installments			
Payment Type	AVG			
Task/Project/Date	12.04.2019			
State Exchange Rate	RUPEE			
Date of State Exchange Rate	N/A			
Project Code	Project Name	Amount		
	LARA	75,00,000.00	12.04.2019	8.35%
	LAPORAN VISHUWASARI	20,00,000.00	12.04.2019	8.35%
	NORTH KARAKHOLA	1,20,00,000.00	12.04.2019	8.35%
	MULPAH	1,00,00,000.00	12.04.2019	8.35%
	TANGAI	1,00,00,000.00	12.04.2019	8.35%
	MUMBAI	30,00,000.00	12.04.2019	8.35%
	TELANGANA	30,00,000.00	12.04.2019	8.35%
Total Allocated Amount		13,00,00,00,000.00		

Statement Giving Details of Project Financed through a Combination of loan

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Form 8
TRANCKE NO
T8881

SP NO 8888888888 00000

Withdrawal Loan From Eurobank Bank AG		
Source of Loan	Eurobank Bank AG	
Currency	USD	
Amount of Loan	15,000,000,000	
Total Drawn Amount	15,000,000,000	
Date of Drawal	24.01.2020	
Interest Type	Floating	
Draw Interest Rate		
Draw Rate, if Floating Interest	200001 - 7.0%	
Margin, if Floating Interest		
Are There Any Collateral	Yes	
Frequency of Int. Payment	MONTHLY	
If Repaid in part, Specify Capital		
Term		
Maturity Period	5 Years	
Maturity effective from	24.01.2020	
Repayment Period (no)		
Maturity (no)	18	
Repayment Frequency	12 Yearly Payments	
Repayment Type	Arrears	
First Repayment Date	01.12.2020	
Draw Exchange Rate	0.7411	
Date of Rate Exchange Rate	N/A	
Model Code	Project Name	Amount
	TAMBUKSI WISMAJALAN	30,000,000,000 24.01.2020
	GAJAHMUKA	30,000,000,000 24.01.2020
	GAJAHMUKA	30,000,000,000 24.01.2020
	TANJUNGPINANG	30,000,000,000 24.01.2020
	KARANGAS	30,000,000,000 24.01.2020
	TELAYUNGAN	30,000,000,000 24.01.2020
	KEBUN BUKIT	30,000,000,000 24.01.2020
	Total Allocated Amount	3,000,000,000,000

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FORM-B

Name of the Company **NTPC Limited**
 Name of the Power Station **Telangana**
 Commercial Operation Date (COD) **30.09.2022**

(Amount in Rs. Lakh)

Particulars	61	66	69	73	74	75	76	78
Source of Loan - Bonds Series	INR	INR	INR	INR	INR	INR	INR	INR
Currenty	1,07,250	3,92,500	4,30,000	2,50,000	3,99,600	3,00,000	1,17,500	2,00,000
Amount of Loan sanctioned (in Lakh)	1,07,250	3,92,500	4,30,000	2,50,000	3,99,600	3,00,000	1,17,500	2,00,000
Amount of Gross Loan drawn upto COD (in Lakh)								
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable*	8.10%	7.37%	7.32%	6.43%	6.67%	6.69%	6.74%	7.44%
Base Rate, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Margin, if Floating Interest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floor	No	No	No	No	No	No	No	No
If above is yes, specify class/floor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moratorium Period (in Years)	5	15	10	10	15 yrs 1 day	10	10 yrs 3 months 25 days	10
Moratorium effective from*	27-05-2016	14-12-2016	17-07-2019	27-01-2021	20-04-2021	13-09-2021	20-12-2021	25-08-2022
Repayment Period	Installments	Bullet Repayment	Bullet	Bullet	Bullet	Bullet	Bullet	Bullet
Repayment effective from	27-05-2021	14-12-2021	17-07-2029	27-01-2021	21-04-2026	13-09-2021	14-04-2032	25-08-2032
Repayment Frequency	Installments	Bullet Repayment	Bullet Repayment					
Repayment Installment (in Lakh)	Due on 27/05/2021, 27/05/2026 & 27/05/2031	3,92,500	4,30,000	2,50,000	3,99,600	3,00,000	1,17,500	2,00,000
Base Exchange Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Door to Door Maturity (in Years)	15	15	10	10	15 yrs 1 day	10	10 yrs 3 months 25 days	10

Name of the Projects	61	66	69	73	74	75	76	78
Anantpur Solar	4,500							
Auraya Solar 20MW				400			425	
Auraya Solar FS 20MW					150		2,000	586
Auraya R & M				200				
Anta Solar 90MW						650	200	900
Baderpur R & M								
Barh I	8,850	46,300	84,200	51,100	32,900	42,800	11,050	4,511
Barh II	500	2,000	1,400					
Bhadra Solar	5,000							
Bonggaon	3,000	12,700	17,100					
Bihour Solar 140 MW			1,000	3,160	900		2,100	
Bihour Solar 85 MW			3,000	5,140	1,650		5,725	
Bansuri					1,500	8,400		500
Chetti Banatu CMB		300	3,000	625	200	1,350	600	211
Dadri Gas R & M								
Daripalli	5,000	36,400	40,000	28,300	11,500	1,000		500
Dulanga CMB		25,400	5,000	2,700	3,400	4,100		
Devkot Solar PvProject (150MW)					9,800	21,605	7,225	600
Devkot Solar PvProject (90MW)					21,900	2,825	7,275	100
ETTAYAPURAM SOLAR				21,875	17,300	21,515	7,075	2,260
Farakka II								
Farakka R & M			1,000	1,700	1,600	1,550		
Farakka-I, II & III FGD					1,500	550		
FATEHGARH (296MW)				10,250	8,700	22,540	1,500	1,300
Fardabad R&M				500		700		
Gadarwara	7,500	28,100	47,600	19,000	7,500			
Gandher R & M								
Gandher 20MW					3,750	90	1,385	
Jeskar Solar				9,225	17,000	6,860	1,200	1,250
Jhatua Power								60,000
Kahalgaon II Phase I		600						
Kahalgaon II Phase II								
Kahalgaon R & M				600	1,200	2,820		
Kahalgaon-I & II FGD					300			
Kawas R & M								
Kawas Solar					2,800	3,250	4,050	800
Khangona	2,000	24,700	13,500	3,000	2,000			500
Koldam		900						
Korba II		900						
Korba R & M				2,300	1,350	4,050		2,200
Korba-I, II & III FGD					100			
Kudgi FGD			2,500		2,950	1,000		
Kudgi	10,000	30,300	21,500					
Kayamkulam FS (70 MW)				1,830	2,850	1,625	4,830	
Kayamkulam FS (22 MW)				170	2,000	2,195		100
Kirendal				7,350		165	1,400	1,900
Lata I	11,000	39,500	10,600	1,700	14,000			
Lata Tepovak								
Mauda I		3,200	6,000		500			
Mauda II	4,000	11,000	29,000		100	2,200		
Mandaur Solar	5,000							
NCTPP II			6,500			5,600		
NCPSS-FGD								
NCTPP R & M					200			
North Karanpura	5,000	32,300	15,000	8,500	11,700	11,800	6,100	3,917
NOKHRA SOLARPV-GEN					11,950	17,050	13,775	16,750
Nokh Solar Plot-(245 MW)								7,500
Nokh Solar Plot-(245 MW)								7,500
Nokh Solar Plot-(245 MW)								7,500
Nabinagar								5,864
Pekri Barwadh CMB	2,000	6,000			20,000			41,800

Ramagundam I & II R & M	500			4,200	3,300	8,985		1,800
Ramagundam II					400			
Ramagundam Floating Solar-100 MW			1,000	3,375	3,800	8,640	3,800	1,400
Ramagundam-I & II FGD						100		
Ramman		2,000	2,500	3,300	1,100	800	1,050	311
Rihand II		3,200						
Rihand R & M				1,200	2,000	6,275		2,400
Rihand Solar (20 MW)					300	510		400
Rihand- I FGD						20		
Rihand- II & III FGD						130		
Simhadri II		2,000						
Simhadri-II & I (2x500 MW) & (2x500 MW)					7,600			
Simhadri-II & I (2X500) & (2X500 MW)FGD						1,150		
Simhadri R & M						200		
Simhadri Floating				1,875	3,050	525	1,350	
Vindhyachal Hydro (Singrauli Hydro)								
Singrauli R & M			1,000	4,200	1,700	2,725		1,300
Singrauli-I & II FGD						8,700		
Vindhyachal Solar (Singrauli Solar)						150		
Spot I		1,700						
Spot-I (3x660 MW) FGD						5,600	1,100	500
Solapur	7,000	25,300	21,500					
Solapur-FGD						2,700	3,450	
Solapur Solar						2,575	800	200
Sambhu Ki Bhuj Solar 250MW				2,700	50,100	19,815	11,350	4,600
Sambhu Ki Bhuj-II (TOKALA)-300MW					25,700	28,530	11,625	4,600
Talcher II	1,200	500						
Talcher R & M						640		700
Talcher Thermal R & M					500			
TSTPS Stage-II & I FGD						9,700		
Tanda II	4,500	21,600	17,000	9,500	16,700	1,000		
Tanda R & M	400							
Tapovan Vahungel	2,800	6,400	18,600	6,200	8,000	1,500		100
Telapali Coal Mine			11,500	19,400	4,800	2,160	2,600	850
Telangana	11,700	5,800	37,000	9,725	29,300	9,200	6,800	8,878
Unchahar IV	5,000	14,700	14,000					
Unchahar R & M				500	900	1,050		1,500
Unchahar-I, II & III-FGD					5,400	5,100		
Unchahar-IV-FGD						2,750	1,200	
Vindhyachal IV		3,100						
Vindhyachal R & M				2,800	1,450	2,900		1,800
Vindhyachal V	800	3,600						
Vindhyachal-I & II					200			
Vindhyachal-I & II FGD						900		
TOTAL	1,87,250	3,92,500	4,30,000	2,50,000	3,99,600	3,00,000	1,17,500	2,00,000

*surveillance fees of .03% is in addition to int on loan

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

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

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Particulars	1		2		3		4		5		6		7		8		9		10		
	2.75% Fixed Rate Netra due 2017	3.15% Fixed Rate Netra due 2012	JPY Eqs. 300Million A	JPY Eqs. 300Million B	4.5% Fixed Rate Netra due 2018	JPY Eqs. 300Million A	JPY Eqs. 300Million B	JPY Eqs. 300Million A	JPY Eqs. 300Million B	3.75% Euro Bonds 2024 II	JPY Eqs. 750Million I	JPY Eqs. 750Million II	3.75% Euro Bonds 2024 II	JPY Eqs. 750Million A	JPY Eqs. 750Million B	3.75% Euro Bonds 2024 II	JPY Eqs. 750Million A	JPY Eqs. 750Million B	3.75% Euro Bonds 2024 II	JPY Eqs. 750Million A	JPY Eqs. 750Million B
Source of Loan																					
Country	EUR	EUR	JPY	JPY	USD	JPY	JPY	JPY	JPY	USD	JPY	JPY									
Amount of loan unsecured	15,00,00,000	20,00,00,00,000	21,52,50,29,123	15,81,99,89,665	40,00,00,000	15,21,48,76,778	16,56,00,00,118	16,21,48,76,778	16,56,00,00,118	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465
Amount of Green Loan drawn upto 14 09 2022	58,00,00,000	20,00,00,00,000	22,52,50,29,123	15,81,99,89,665	43,00,00,000	16,21,48,76,778	16,56,00,00,118	16,21,48,76,778	16,56,00,00,118	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465	45,00,00,000	24,67,10,32,832	10,74,22,92,465
Fixed Interest Rate, if applicable	2.75%*	7.25%*	-	-	4.5%*	-	-	-	-	3.750%	-	-	3.750%	-	-	3.750%	-	-	3.750%	-	-
Rate Rate, if floating interest*	-	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*	-	6 Month JPY Libor / 3 Months TONNA*	6 Month JPY Libor / 3 Months TONNA*
Maturity, if floating interest rate	-	-	TONNA*	TONNA*	-	TONNA*	TONNA*	TONNA*	TONNA*	-	TONNA*	TONNA*									
Are there any Caps / Floors	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If above is Yes, specify Caps / Floors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Microstream Period	10 Years	3 Years	9 Years	9 Years	-	9 Years	9 Years	9 Years	9 Years	-	9 Years	9 Years									
Renewment effective from	01-Feb-2017	01-May-2017	12-Nov-2017	12-Nov-2017	19-Mar-2018	25-Jan-2018	25-Jan-2018	25-Jan-2018	25-Jan-2018	01-Apr-2019	15-Aug-2019	15-Aug-2019									
Renewment period	Bullet payment	Bullet payment	1 year	1 year	Bullet payment	1 year	1 year	1 year	1 year	Bullet payment	1 year	1 year	Bullet payment	1 year	1 year	Bullet payment	1 year	1 year	Bullet payment	1 year	1 year
Renewment effective from	01-Feb-2017	01-May-2017	12-Nov-2017	12-Nov-2017	19-Mar-2018	25-Jan-2018	25-Jan-2018	25-Jan-2018	25-Jan-2018	01-Apr-2019	15-Aug-2019	15-Aug-2019									
Employment frequency	One time	One time	Three Time	Three Time	One time	Three Time	Three Time	Three Time	Three Time	One time	Three Time	Three Time	One time	Three Time	Three Time	One time	Three Time	Three Time	One time	Three Time	Three Time
Employment installment	50,00,00,000	20,00,00,00,000	7,50,83,53,041	5,42,96,96,622	40,00,00,000	3,42,42,42,219	5,52,10,31,079	3,42,42,42,219	5,52,10,31,079	45,00,00,000	6,16,37,63,158	2,68,55,71,101	45,00,00,000	6,16,37,63,158	2,68,55,71,101	45,00,00,000	6,16,37,63,158	2,68,55,71,101	45,00,00,000	6,16,37,63,158	2,68,55,71,101
Base Exchange Rate as 31 09 2022	81.2500	N/A	0.5713	0.5713	82.1400	0.5713	0.5713	0.5713	0.5713	82.2400	0.5713	0.5713	82.2400	0.5713	0.5713	82.2400	0.5713	0.5713	82.2400	0.5713	0.5713
Are foreign currencies been hedged	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If above is Yes, specify details	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Name of the Projects	%		%		%		%		%		%		%		%		%		%		%	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Spiti-I FGD																						
Spiti-II FGD																						
Spiti-III FGD																						
Tapovan V Tapovan Voltaged	1.7105%	2.4103%	1.6718%	2.3414%	3.7614%	1.4274%	1.8112%	1.9709%	1.9709%	0.2109%	0.4770%	0.2109%	1.9709%	1.9709%	0.4770%	1.9709%	1.9709%	0.4770%	1.9709%	1.9709%	0.4770%	
Richard-I Richard II&III																						
VSTPS-I A & II																						
VSTPS-III & IV																						
Sembhadri-I Sembhadri-II&III																						
Malsind-I																						
Bark-I (I)																						
Bark-II FGD																						
Bark-III FGD																						
Lara	11.0645%	11.4638%	14.3285%	8.6081%	4.5314%	0.6649%	4.0260%	0.6649%	4.0260%	2.2407%	6.4349%	1.9738%	2.2407%	6.4349%	1.9738%	2.2407%	6.4349%	1.9738%	2.2407%	6.4349%	1.9738%	
Mirza-I	7.5219%	0.3272%	8.1817%	5.3406%	9.9104%	10.1832%	8.4670%	10.1832%	8.4670%	11.1108%	12.1014%	8.1711%	11.1108%	12.1014%	8.1711%	11.1108%	12.1014%	8.1711%	11.1108%	12.1014%	8.1711%	
Mirza-II	4.1092%	0.1177%	1.7259%	1.6579%	4.5482%	4.5482%	4.5482%	4.5482%	4.5482%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	
Solanur-I	4.1033%	3.0733%	1.2515%	3.6506%	4.5482%	4.5482%	4.5482%	4.5482%	4.5482%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	4.8465%	0.9020%	1.5548%	
Solanur-FGD																						
Vadhyrighy V																						
Gadwar Gadwar	10.4079%	11.1720%	8.1538%	5.1170%	9.2422%	9.6417%	9.6097%	9.6417%	9.6097%	10.2954%	6.1543%	3.6940%	10.2954%	6.1543%	3.6940%	10.2954%	6.1543%	3.6940%	10.2954%	6.1543%	3.6940%	
Kudgi-I Kudgi (FGD)																						
Singrauli-I Singrauli-II&III																						
Korba-I Korba-II&III																						
North Kar	18.9413%	9.6266%	15.1119%	6.8731%	13.8075%	12.4354%	12.9944%	12.4354%	12.9944%	7.7444%	7.8511%	8.5758%	7.7444%	7.8511%	8.5758%	7.7444%	7.8511%	8.5758%	7.7444%	7.8511%	8.5758%	
Dadri-I																						
Ramgundam Ramgundam-I & II																						
Parulka Parulka-I&II&III																						
Kabulgaon Kabulgaon-I&II																						
STPS Staff																						
Factor STPS-I&II																						
Uchchar Uchchar-I, II & III																						
Dattigudi	12.4912%	13.9745%	17.7744%	8.1068%	9.5743%	5.2089%	9.7943%	5.2089%	9.7943%	6.9149%	5.7274%	13.1112%	6.9149%	5.7274%	13.1112%	6.9149%	5.7274%	13.1112%	6.9149%	5.7274%	13.1112%	

Particulars	1	2	3	4	5	6	7	8	9	10
	2.75% Fixed Rate Netta due 2017	7.25% Fixed Rate Netta due 2022	JPY Eqs. 300Million A	JPY Eqs. 300Million B	4.5% Fixed Rate Netta due 2018	JPY Eqs. 300Million A	JPY Eqs. 300Million B	3.75% Kava Bonds 2024 II	JPY Eqs. 750Million I	JPY Eqs. 750Million II
Tandla II	9.2500%	11.1012%	11.1800%	22.2101%	14.1663%	10.5866%	7.2144%	9.8793%	11.4417%	1.82007%
Khangone	4.5825%	2.5707%	1.0084%	1.2522%	18.2759%	21.2451%	17.0843%	15.1579%	0.1403%	2.82500%
Baraman	10.4784%	13.4461%	12.9985%	22.7937%	18.2759%	0.1879%	0.3627%	0.3980%	16.7026%	20.17450%
Telangana	4.3490%	4.4208%	4.1375%	10.8464%	13.6824%	19.7889%	29.1201%	23.8391%	0.6543%	0.5192%
Baraman-II									22.9379%	23.29663%
Anantpur Solar		0.1175%								
Machilipatnam Solar		2.288%								
Dabbla Solar		0.0245%								
Arumal Wind		0.9414%								
Dulanga C										
Talapat Coal Mine										
Chaiti Bar										
Chaiti Bar/ta CMB										
Koradani										
Ramagundam										
Dadri-II FGD										
NTPS-FGD										
Mouda-I FGD										
Mouda-II FGD										
Rihand-I FGD										
Parigal (FGD)										
Unallocated										
Total	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%

a) The interest rate is exclusive of withholding tax currently @ 5.46% of Inclusive of surcharge & education cess)
 b) These exchange rate are the SBI Bid selling rate as on 30.09.2022
 c) Distribution of loan package to various projects is based on utilization of loan as on 30.09.2022

217.45	8,841.57	9,544.92	18,319.58	547.29	32,095.70	48,249.36	1,072.76	56,590.26	25,025.28
217.45	8,841.57	9,544.92	18,319.58	547.29	32,095.70	48,249.36	1,072.76	56,590.26	25,025.28
			0.00					0.00	(8.00)

Name of the Company
Name of the Power Station

Particulars	11		12		13		14		15		16		17		18		19	
	JPY Eqs. 750Million III	JPY Eqs. 750Million IV	JPY Eqs. 750Million V	JPY Eqs. 750Million VI	Euro Loan I	Euro Loan II	Euro Loan III	Euro Loan III	USD 750 Million Draw I	USD 750 Million Draw II	Euro Loan III	Euro Loan III	USD 750 Million Draw I	USD 750 Million Draw II	Euro Loan III	Euro Loan III	USD 750 Million Draw I	USD 750 Million Draw II
Tanaka II	11,232,50%	0,01420%	11,232,52%	8,525,2%	16,793,2%	8,281,07%	4,927,09%	4,927,09%	2,554,20%									
Utsunohara-IV			2,118,82%	1,353,32%	0,618,02%													
Shargong	10,347,99%	3,741,41%	0,103,17%	4,929,05%														
Ramunan	0,720,60%	1,145,34%	0,972,44%	1,507,14%	1,381,77%	1,381,56%	2,087,19%	2,087,19%	2,429,00%	2,170,14%								
Telangana	21,388,14%	13,357,18%	14,019,82%	14,588,84%	24,29,36%	8,677,31%	18,27,83%	18,27,83%	10,044,48%	17,018,74%								
Bharuani																		
Amangpur Solar																		
Machinar Solar																		
Swathi Solar																		
Agalwal Wind																		
Colunga C																		
Dalanga Coal Mine																		
Talipah Coal Mine																		
Chatt Bani					1,741,12%	1,564,11%	1,847,89%	1,847,89%	0,519,02%	2,128,14%								
Grendan					5,44,09%	10,193,45%	6,433,85%	6,433,85%	0,798,84%	3,251,11%								
Karand					0,891,12%	1,488,22%	1,097,04%	1,097,04%	3,417,45%	1,001,57%								
Ramagundam					7,67,97%	1,643,82%	1,505,85%	1,505,85%	3,540,91%	3,251,11%								
Quelii-III FGD																		
Quelii-III FGD																		
Mooda-I																		
Mooda-II FGD																		
Mooda-II FGD																		
Rihand-I																		
Rihand-I FGD																		
Shargong FGD																		
Utsunohara																		
Total	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%	100,000,00%

a) The interest rate is exclusive of withholding
b) The exchange rate are the SBI B/L selling in
c) Distribution of loan package to various project

22,364.52	14,094.31	14,660.49	18,805.86	118.87	75.10	154.44	170.27
22,364.53	14,094.32	14,660.48	18,805.85	118.87	71.10	154.44	170.27
(0.01)	(0.00)	0.01	0.00	-	-	-	-

Name of the Company
Name of the Power Station

	Particulars
	Source of Loan
Fanda II	Tenda II
	Uchhalan IV
Chargone	Kharagone
Barronam	Barron
Trelanganal	Trelanganal
Barron-II	Barron-II
	Amangar Solar
	Machhal Solar
	Baafha Solar
	Regional Wind
Dudanga C	Dudanga Coal Mine
	Talapat Coal Mine
Chatti Bari	Chatti Baria ChB
Gorodjan	Korodjan
Barragund	Barragundam III FGD
Dadri-II FGD	NCF5-FGD
Mouda-I	Mouda-I FGD
Mouda-II	Mouda-II FGD
Rikhand-I	Rikhand-I FGD
	Darjool (FGD)
	Unallocated
	Total

Notes:-
a) The Interest rate is exclusive of withholding
b) Base exchange rate are the SBI BBL selling in
c) Distribution of loan package is various prope

Net

NAME SIDE
NTFC LTD
Super Thermal
01.04.2023
2023-24

Name of the Petitioner
Name of the Generating Station
COD of Station (Anticipated)
Per Financial Year

Sl. No.	Head of Work / Equipment	01.04.2023 (Anticipated date of Unit1 COD) to 30.09.2023 (U1 Add cap)				01.04.2023 (Anticipated date of Unit2 COD) to 31.03.2024 (U1+U2 Add cap)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis 5= (3+4)	IDC included in col. 3	Accrual basis	Un-discharged Liability included in col. 3	Cash basis 5= (3+4)	IDC included in col. 3			
1	2	3	4	5= (3+4)	6	3	4	5= (3+4)	6	7	8	9
1.1	Cost of Land & Site Development											
1.1	Land											
1.2	Rehabilitation & Re-erectment (R&R) fee											
1.3	Preliminary Investigation,											
1.4	Site levelling & Development, Enabling works											
2	Plant & Equipment Mechanical works											
2.1	SG Island Package											
2.1.1	Boiler	300.00	30.00	270.00		0.00	0.00	0.00				
2.1.2	ISP	100.00	10.00	90.00		0.00	0.00	0.00				
2.1.3	SG CIP & AIP	300.00	30.00	270.00		0.00	0.00	0.00				
2.1.4	SG common systems	100.00	10.00	90.00		0.00	0.00	0.00				
2.2	TG Island Package											
2.2.1	TG	100.00				0	0	0				
2.2.2	TG HVAC system			100.00		0.00	0.00	0.00				
2.3	Balance of Plant Package											
2.3.1	Water system	100.00	10.00	90.00		0.00	0.00	0.00				
2.3.2	IDCT	200.00	20.00	180.00		200.00	20.00	180.00				
2.3.3	Fuel Oil system					200.00	20.00	180.00				
2.3.4	Fire fighting System											
2.3.5	Coal, Lume & Gypsum handling	200.00	20.00	180.00		200.00	20.00	180.00				
2.3.6	AWRS	150.00	15.00	135.00		1,300.00	130.00	1,170.00				
2.3a	BOIP Electrical					300.00		300.00				
2.3a	GIS switchyard	0.00										
2.3a	Electrical equipments (transformers, switchgear, cabling)	0.00				400.00	40.00	360.00				
2.3a	Stations lighting	0.00				300.00	30.00	270.00				
2.3b	BOIP C&I											
2.3b	Stations C&I											
2.3b	CCTV & PA											
2.4	FGD											
2.4.1	FGD											
2.5	Workshop & Lab equipments											
	Total Mechanical works	1,550.00	145.00	1,405.00		2,900.00	260.00	2,640.00				
3	Civil Works											
3.1	Main Power House & Service Building	400.00		400.00								
						0.00		0.00				

for

Projected Add Cap for the period 01.04.2023 to 30.05.2023

LEAD WISE
CASH BASIS

Name of the Petitioner
NTPC LTD
Name of the Generating Station
Super Thermal
COD of Station (anticipated)
01.04.2023
For Financial Year
2023-24

Sl. No.	Head of Work /Equipment	01.04.2023 (Anticipated date of Unit#1 COD) to 30.05.2023 (U1 Add cap)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	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
1.1	Cost of Land & Site Development							
1.2	Land							
1.3	Rehabilitation & Resettlement (R&R) Incl							
1.4	1.1 Preliminary Investigation, 1.4 Site levelling & Development, Enabling works							
2	Plant & Equipment Mechanical works							
2.1	SG Island Package							
2.1.1	Boiler	300.00						
2.1.2	ESP	100.00	30.00	270.00				
2.1.3	SG CHP & AHP	300.00	10.00	90.00				
2.1.4	SG common systems	100.00	30.00	270.00				
2.2	TG Island Package							
2.2.1	TG	100.00	10.00	90.00				
2.2.2	TG HVAC system							
2.3	Balance of Plant Package							
2.3.1	Water system	100.00						
2.3.2	IDCT	200.00	10.00	90.00				
2.3.3	Fuel Oil system		20.00	180.00				
2.3.4	Fire fighting System							

2.3.5	Coal, Lime & Gypsum handling	200.00				180.00	
2.3.6	AWRS	150.00	20.00			135.00	
2.3a	BOP Electrical						
2.3a.1	GIS switchyard	0.00				-	
2.3a.2	Electrical equipments (transformers, switchgears, cabling)	0.00				-	
2.3a.3	Station lighting	0.00				-	
2.3b	BOP C&I						
2.3b.1	Station C&I						
2.3b.2	CCTV & PA						
2.4	FGD						
2.4.1	FGD						
2.5	Workshop & Lab equipments						
3	Total Mechanical works	1,550.00	145.00			1,405.00	
3.1	Civil Works						
3.1.1	Main Power House & Service Building	400.00				400.00	
3.2	SG common system building	200	20.00			180.00	
3.3	Chimney - Fluecan					-	
3.4	AHP & CHP MCC building	400.00	40.00			360.00	
3.5	ESP Control Room	300	30.00			270.00	
3.6	CW & Firewater system	100.00				100.00	
3.7	Cooling Towers		10.00			(10.00)	
3.8	Water system					-	
3.9	CHP Package	400.00				400.00	
3.10	Road & Drains	300.00	40.00			260.00	
3.11	Boundary wall		30.00			(30.00)	
3.12	FGD MCC control Room building					-	
3.13	Ash Dyke	1,600.00	160.00			1,440.00	
3.14	Township & Colony	983.15	100.00			883.15	
3.15	Temp. construction & enabling works	500.00				500.00	
4	Total Civil works	5,183.15	430.00			4,753.15	
4	Electrical works						
4.1	Construction Power including 33 KV						
4.2	Startup & Diversion lines						
4.3	SG-Solar works						
4.4	TG-Solar works						
4.5	BOP-Solar works						

Name of the Petitioner

NTPC LTD

Name of the Generating Station
COD of Station (anticipated)
For Financial Year

Telangana Super Thermal Power Project
Stage-I
01.04.2023
2023-24

Sl. No.	Head of Work /Equipment	31.05.2023 (Anticipated date of Unit#2 COD) to 31.03.2024 (U1+U2 Add cap)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	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
1.1	Cost of Land & Site Development							
	Land							
1.2	Rehabilitation & Resettlement (R&R) Incl							
1.2	1.1							
1.3	Preliminary Investigation,							
1.4	Site levelling & Development, Enabling works							
2	Plant & Equipment Mechanical works							
2.1	SG Island Package							
2.1.1	Boiler	0.00	0.00					
2.1.2	ESP	0.00	0.00					
2.1.3	SG CHIP & AHP	0.00	0.00					
2.1.4	SG common systems	0.00	0.00					
2.2	TG Island Package	0	0					
2.2.1	TG	0.00	0.00					
2.2.2	TG HVAC system	0.00	0.00					
2.3	Balance of Plant Package							
2.3.1	Water system	200.00	20.00		180.00			

2.3.2	IDCT		200.00	20.00	180.00
2.3.3	Fuel Oil system				0.00
2.3.4	Fire fighting System	200.00	20.00	180.00	
2.3.5	Coal, Lime & Gypsum handling	1,300.00	130.00	1,170.00	
2.3.6	AWRS	300.00		300.00	
2.3a	BOP Electrical				
2.3a.1	GIS switchyard	0.00		0.00	
2.3a.2	Electrical equipments (transformers, switchgears, cabling)	400.00	40.00	360.00	
2.3a.3	Station lighting	300.00	30.00	270.00	
2.3b	BOP C&I				
2.3b.1	Station C&I				
2.3b.2	CCTV & PA				
2.4	FGD				
2.4.1	FGD				
2.5	Workshop & Lab equipments				
3	Total Mechanical works	2,900.00	260.00	2,640.00	
3.1	Civil Works				
3.1.1	Main Power House & Service Building	0.00		0.00	
3.1.2	SG common system building	0		0.00	
3.1.3	Chimney - Fluecan	0.00		0.00	
3.1.4	AHP & CHP MCC building	0.00		0.00	
3.1.5	ESP Control Room	0		0.00	
3.1.6	CW & Firewater system	0.00		0.00	
3.1.7	Cooling Towers	500.00	50.00	450.00	
3.1.8	Water system	200.00	20.00	180.00	
3.1.9	CHP Package	1,000.00	100.00	900.00	
3.1.10	Road & Drains	1,500.00	150.00	1,350.00	
3.1.11	Boundary wall	200	20	180.00	
3.1.12	FGD MCC control Room building				
3.1.13	Ash Dyke	1,000.00	50.00	950.00	
3.1.14	Township & Colony	9,039.98	452.00	8,587.98	
3.1.15	Temp. construction & enabling works	2,500.00	200.00	2,300.00	
4	Total Civil works	15,939.98	1,042.00	14,897.98	
4	Electrical works				
4.1	Construction Power including 33 KV				

Original Scope work under Regulation 24(1)(b)

24(1)(b)

4.2	Startup & Diversion lines								
4.3	SG-Solar works								
4.4	TG-Solar works								
4.5	BOP-Solar works								
5	Computer & Satellites								
5.1	Computer facilities								
5.2	Common Facilities								
	Total Electrical works			0.00	0.00	0.00	0.00		0.00
6	Coal Transportation System			1,500.00	150.00				1,350.00
	Total Plant & Machinery Including Taxes & Duties			20,339.98	1,452.00				18,887.98
	Taxes & Duties								
	Initial Spares Included with Plant & machinery packages			5,000.00	0.00				5,000.00
7	Misc Tools								
8	Contingency								
9	Project Management / EDC								
10	Pre commg expenses								
9	Total Additional Capitalisation Claimed			25,339.98	1,452.00				23,887.98

12

Financing of Additional Capitalisation

Name of the Petitioner: **NTPC Limited**
 Name of the Generating Station: **Telangana STPS (2x800 MW)**
 Date of Commercial Operation : **01.04.2023 (Anticipated)**

**PART I
FORM- 10**

Financial Year (Starting from COD)	Actual						Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24	
1	3	4	5	6	7	8	9	10	11		
Amount capitalised in Work/ Equipment											
Financing Details											
Loan-1											
Loan-2											
Loan-3 and so on											
Total Loans											
Equity											
Internal Resources											
Others (Pl. specify)											
Total											

Add cap is proposed to be finance 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.

(Petitioner)



Calculation of Depreciation

Name of the Petitioner: NTPC Limited
Name of the Generating Station: Tehri Dam STPS (2x800 MW)

Sl No	Name of the Assets	3 Gross Block as on COD of Asset (i.e. 31.03.2023)	4 Depreciation Rates as per CERC's Depreciation Rate Schedule	5-Col 3 X Col 4 Depreciation Amount for each year up to 31.03.2023	6 Gross Block as on COD of Unit (i.e. 31.03.2023)	7 Depreciation Rates as per CERC's Depreciation Rate Schedule	(Amount in Ru Labh) Depreciation Amount for each year from 01.06.2023 up to 31.03.24 8=Col 6 X Col 7
1	Freehold Land	0	0.00%	0	0	7	0
2	Leasehold Land	0	3.34%	0	0	0.00%	0
3	Roads, bridges, culverts & hwy pads	17158.99	3.34%	579.78	17638.99	3.34%	0
4	Other Buildings	25435.32	3.34%	850.22	31903.84	3.34%	589.8
5	Temporary erection	0	100.00%	0	0	3.34%	1065.59
6	Water supply, drainage & sewerage	3164.83	5.28%	167.1	3164.83	100.00%	0
7	Plant and machinery	700939.13	5.28%	37126.36	1118602.55	5.28%	167.1
8	Furniture and fixtures	2528.6	6.31%	160.06	2528.6	6.31%	59062.21
9	Other Office Equipments	573.78	6.31%	36.17	0	6.31%	160.06
10	EDP, WP machines & SATCOM eq	0	15.00%	0	0	15.00%	0
11	Vehicles excluding jeeps/boats	0	9.50%	0	573.78	15.00%	0
12	Construction equipment	0	5.28%	0	0	9.50%	86.07
13	Electrical installations	0	5.28%	0	0	5.28%	0
14	Communication equipment	0	5.28%	0	0	5.28%	0
15	Hospital equipment	0	6.31%	0	0	5.28%	0
16	Laboratory and workshop equipment	0	5.28%	0	0	6.31%	0
17	Software	0	15.00%	0	0	5.28%	0
	TOTAL	756020.75		39169.62	1174433.19	15.00%	0
	Weighted Average Rate of Depreciation (%)			5.18			61133.83

Petitioner

Statement of Depreciation

Name of the Petitioner: NTPC Limited									Part-I Form-12	
Name of the Generating Station: Telangana STPS Stage-I (2x800 MW)									(Amount in Rs Lakh)	
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24				
1	2	4	6	7	8	9	10	01.04.2023 to 30.05.2023	31.05.2023 to 31.03.2024	
1	Opening Capital Cost	-	-	-	-	60	306			
2	Closing Capital Cost	-	-	-	-	6,94,788.22	10,65,534.62			
3	Average Capital Cost	-	-	-	-	7,02,896.37	10,89,422.61			
4	Freehold land	-	-	-	-	6,98,842.30	10,77,478.62			
4(a)	IT equipments and software	-	-	-	-	-	-			
5	Rate of depreciation	-	-	-	-	-	-			
6	Depreciable value	-	-	-	-	5.21	5.21		5.21	
7.	Balance useful life at the beginning of the period	-	-	-	-	6,28,958.07	969730.7541			
8	Remaining depreciable value	-	-	-	-	25.00	25.00		25.00	
9	Depreciation (for the period)	-	-	-	-	6,28,958.07	963761.9535			
10	Depreciation (annualised)	-	-	-	-	5,968.80	46,933.91			
11.	Cumulative depreciation at the end of the period	-	-	-	-	36,409.68	56,136.64			
12.	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	-	-	-	-	5,968.80	52,902.71			
13.	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-	-			
14.	Net Cumulative depreciation at the end of the period	-	-	-	-	5,968.80	52,902.71			
* Rate of depreciation for all years have been provisionally considered as on Unith#										

(Petitioner)

Name of the Company : NTPC Limited
Name of the Power Station: TELANGANA STPS -I

S.No.	Particulars	22-23	
		01-10-2022 to 31-03-2023	23-24
1	AXIS BANK-II		
	Gross Drawl opening	2,000	2,000.00
	Cummulative repayment of drawl till prev	0	0
	Net Loan opening	2,000.00	2,000.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	2,000.00	2,000.00
	Repayment of loan during the year	0	222
	Net loan closing	2,000.00	1,777.78
	Average net loan	2,000	1,889
	Rate of interest on loan	7.7000%	7.7000%
	Interest on loan	154	145
2	Axis Bank-III		
	Gross Drawl opening	13,000	13,000.00
	Cummulative repayment of drawl till prev	0	0
	Net Loan opening	13,000.00	13,000.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	13,000.00	13,000.00
	Repayment of loan during the year	0	-
	Net loan closing	13,000.00	13,000.00
	Average net loan	13,000	13,000
	Rate of interest on loan	7.7000%	7.7000%
	Interest on loan	1,001	1,001
3	HDFC Bank Limited-III		
	Gross Drawl opening	2,400	2,400.00
	Cummulative repayment of drawl till prev	267	533
	Net Loan opening	2,133	1,866.67
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	2,133	1,866.67
	Repayment of loan during the year	267	267
	Net loan closing	1,867	1,600.00
	Average net loan	2,000	1,733
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	147	127
4	HDFC BANK LIMITED IV		
	Gross Drawl opening	11,500	11,500.00
	Cummulative repayment of drawl till prev	2,556	2555.555555
	Net Loan opening	8,944.44	8,944.44
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	8,944.44	8,944.44
	Repayment of loan during the year	0	1,278
	Net loan closing	8,944.44	7,666.67
	Average net loan	8,944	8,306

	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	657	610
5	HDFC BANK LIMITED V		
	Gross Drawl opening	11,800	11,800.00
	Cumulative repayment of drawl till prev	0	0
	Net Loan opening	11,800.00	11,800.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	11,800.00	11,800.00
	Repayment of loan during the year	0	0
	Net loan closing	11,800.00	11,800.00
	Average net loan	11,800	11,800
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	867	867
6	HDFC BANK LIMITED VI		
	Gross Drawl opening	7,200	7,200.00
	Cumulative repayment of drawl till prev	0	0
	Net Loan opening	7,200.00	7,200.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	7,200.00	7,200.00
	Repayment of loan during the year	0	0
	Net loan closing	7,200.00	7,200.00
	Average net loan	7,200	7,200
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	529	529
7	HDFC BANK LIMITED VII		
	Gross Drawl opening	8,000	8,000.00
	Cumulative repayment of drawl till prev	0	0
	Net Loan opening	8,000.00	8,000.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	8,000.00	8,000.00
	Repayment of loan during the year	0	0
	Net loan closing	8,000.00	8,000.00
	Average net loan	8,000	8,000
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	588	588
8	HDFC BANK LIMITED IX		
	Gross Drawl opening	15,500	15,500.00
	Cumulative repayment of drawl till prev	0	0
	Net Loan opening	15,500.00	15,500.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	15,500.00	15,500.00
	Repayment of loan during the year	0	0
	Net loan closing	15,500.00	15,500.00
	Average net loan	15,500	15,500
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	1,139	1,139
9	HDFC BANK LIMITED X		
	Gross Drawl opening	11,100	11,100.00
	Cumulative repayment of drawl till prev	0	0
	Net Loan opening	11,100.00	11,100.00

	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	11,100.00	11,100.00
	Repayment of loan during the year	0	0
	Net loan closing	11,100.00	11,100.00
	Average net loan	11,100	11,100
	Rate of interest on loan	7.2300%	7.2300%
	Interest on loan	803	803
9	IDFC-III- Repaid		
	Gross Drawl opening	15,000	15,000.00
	Cummulative repayment of drawl till prev	15,000	15,000
	Net Loan opening	0.00	0.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	0.00	0.00
	Repayment of loan during the year	0	0
	Net loan closing	0.00	0.00
	Average net loan	0	0
	Rate of interest on loan	8.6500%	8.6500%
	Interest on loan	0	0
9	IDFC Bank-IV- Repaid		
	Gross Drawl opening	7,500	7,500.00
	Cummulative repayment of drawl till prev	7,500	7,500
	Net Loan opening	0.00	0.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	0.00	0.00
	Repayment of loan during the year	0	0
	Net loan closing	0.00	0.00
	Average net loan	0	0
	Rate of interest on loan	8.6000%	8.6000%
	Interest on loan	0	0
10	PNB-V		
	Gross Drawl opening	4,600	4,600.00
	Cummulative repayment of drawl till prev	0	0
	Net Loan opening	4,600.00	4,600.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	4,600.00	4,600.00
	Repayment of loan during the year	0	383.33
	Net loan closing	4,600.00	4,216.67
	Average net loan	4,600	4,408
	Rate of interest on loan	7.2000%	7.2000%
	Interest on loan	331	317
11	State Bank of India - VIII		
	Gross Drawl opening	22,500	22,500
	Cummulative repayment of drawl till prev	2,500	5,000
	Net Loan opening	20,000	17,500
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	20,000	17,500
	Repayment of loan during the year	2,500	2,500
	Net loan closing	17,500.00	15,000.00
	Average net loan	18,750	16,250
	Rate of interest on loan	7.1500%	7.1500%

	Interest on loan	1,341	1,162
12	State Bank of India - IX		
	Gross Drawl opening	16,600	16,600
	Cummulative repayment of drawl till prev	3,689	5,533
	Net Loan opening	12,911	11,067
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	12,911	11,067
	Repayment of loan during the year	1,844	1,844
	Net loan closing	11,067	9,222
	Average net loan	11,989	10,144
	Rate of interest on loan	7.1500%	7.1500%
	Interest on loan	857	725
13	State Bank of India - X		
	Gross Drawl opening	12,000	12,000.00
	Cummulative repayment of drawl till prev	0	0
	Net Loan opening	12,000.00	12,000.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	12,000.00	12,000.00
	Repayment of loan during the year	0	0
	Net loan closing	12,000.00	12,000.00
	Average net loan	12,000	12,000
	Rate of interest on loan	7.3500%	7.3500%
	Interest on loan	882	882
14	State Bank of India - XI		
	Gross Drawl opening	38,500	38,500.00
	Cummulative repayment of drawl till prev	0	4277.777778
	Net Loan opening	38,500.00	34,222.22
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	38,500.00	34,222.22
	Repayment of loan during the year	4277.777778	4277.777778
	Net loan closing	34,222.22	29,944.44
	Average net loan	36,361	32,083
	Rate of interest on loan	7.0500%	7.0500%
	Interest on loan	2,563	2,262
15	State Bank of India - XII		
	Gross Drawl opening	40,500	40,500.00
	Cummulative repayment of drawl till prev	0	0
	Net Loan opening	40,500.00	40,500.00
	Increase decrease due to FERV		
	Increase decrease due to ACE		
	Total	40,500.00	40,500.00
	Repayment of loan during the year	0	0
	Net loan closing	40,500.00	40,500.00
	Average net loan	40,500	40,500
	Rate of interest on loan	7.0500%	7.0500%
	Interest on loan	2,855	2,855
15	Syndicate Bank-IV-Repaid		
	Gross Drawl opening	13,000	13,000.00
	Cummulative repayment of drawl till prev	13000	13000
	Net Loan opening	0.00	0.00
	Increase decrease due to FERV		

Increase decrease due to ACE		
Total	0.00	0.00
Repayment of loan during the year	0	0
Net loan closing	0.00	0.00
Average net loan	0	0
Rate of interest on loan	7.2000%	7.2000%
Interest on loan	0	0
Bonds Series - 61		
Gross Drawl opening	11,700.00	11,700.00
Cummulative repayment of drawl till prev	3,900.00	3900
Net Loan opening	7,800.00	7,800.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	7,800.00	7,800.00
Repayment of loan during the year	-	0
Net loan closing	7,800.00	7,800.00
Average net loan	7,800	7,800
Rate of interest on loan	8.1300%	8.1300%
Interest on loan	634	634
Bonds Series - 66		
Gross Drawl opening	5,800.00	5,800.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	5,800.00	5,800.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	5,800.00	5,800.00
Repayment of loan during the year	-	0
Net loan closing	5,800.00	5,800.00
Average net loan	5,800	5,800
Rate of interest on loan	7.4000%	7.4000%
Interest on loan	429	429
Bonds Series - 69		
Gross Drawl opening	37,000.00	37,000.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	37,000.00	37,000.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	37,000.00	37,000.00
Repayment of loan during the year	-	0
Net loan closing	37,000.00	37,000.00
Average net loan	37,000	37,000
Rate of interest on loan	7.3500%	7.3500%
Interest on loan	2,720	2,720
Bonds Series - 73		
Gross Drawl opening	9,725.00	9,725.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	9,725.00	9,725.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	9,725.00	9,725.00
Repayment of loan during the year	-	0
Net loan closing	9,725.00	9,725.00
Average net loan	9,725	9,725
Rate of interest on loan	6.4600%	6.4600%
Interest on loan	628	628

Bonds Series - 74		
Gross Drawl opening	20,300.00	20,300.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	20,300.00	20,300.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	20,300.00	20,300.00
Repayment of loan during the year	-	0
Net loan closing	20,300.00	20,300.00
Average net loan	20,300	20,300
Rate of interest on loan	6.9000%	6.9000%
Interest on loan	1,401	1,401
Bonds Series - 75		
Gross Drawl opening	9,200.00	9,200.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	9,200.00	9,200.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	9,200.00	9,200.00
Repayment of loan during the year	-	0
Net loan closing	9,200.00	9,200.00
Average net loan	9,200	9,200
Rate of interest on loan	6.7200%	6.7200%
Interest on loan	618	618
Bonds Series - 76		
Gross Drawl opening	6,800.00	6,800.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	6,800.00	6,800.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	6,800.00	6,800.00
Repayment of loan during the year	-	0
Net loan closing	6,800.00	6,800.00
Average net loan	6,800	6,800
Rate of interest on loan	6.7700%	6.7700%
Interest on loan	460	460
Bonds Series - 78		
Gross Drawl opening	8,678.00	8,678.00
Cummulative repayment of drawl till prev	-	0
Net Loan opening	8,678.00	8,678.00
Increase decrease due to FERV	-	
Increase decrease due to ACE	-	
Total	8,678.00	8,678.00
Repayment of loan during the year	-	0
Net loan closing	8,678.00	8,678.00
Average net loan	8,678	8,678
Rate of interest on loan	7.4700%	7.4700%
Interest on loan	648	648
2.75% Fixed Rate Notes due 2027		
Gross Drawl opening	17,667.73	17,667.73
Cummulative repayment of drawl till prev	-	-
Net Loan opening	17,667.73	17,667.73
Increase decrease due to FERV	-	

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	Increase decrease due to ACE	-	
	Total	17,667.73	17,667.73
	Repayment of loan during the year	-	-
	Net loan closing	17,667.73	17,667.73
	Average net loan	17,667.73	17,667.73
	Rate of interest on loan	2.9088%	2.9088%
	Interest on loan	513.92	513.92
	7.25% Fixed Rate Notes due 2022		
	Gross Drawl opening	8,841.57	8,841.57
	Cummulative repayment of drawl till prev	8,841.57	8,841.57
	Net Loan opening	-	-
	Increase decrease due to FERV	-	-
	Increase decrease due to ACE	-	-
	Total	-	-
	Repayment of loan during the year	-	-
	Net loan closing	-	-
	Average net loan	-	-
	Rate of interest on loan	7.6687%	7.6687%
	Interest on loan	-	-
	JPY Equ. 350Million A		
	Gross Drawl opening	5,453.01	5,453.01
	Cummulative repayment of drawl till prev	-	-
	Net Loan opening	5,453.01	5,453.01
	Increase decrease due to FERV	-	-
	Increase decrease due to ACE	-	-
	Total	5,453.01	5,453.01
	Repayment of loan during the year	-	-
	Net loan closing	5,453.01	5,453.01
	Average net loan	5,453.01	5,453.01
	Rate of interest on loan	1.0049%	1.0049%
	Interest on loan	54.80	54.80
	JPY Equ. 350Million B		
	Gross Drawl opening	10465.97714	10,465.98
	Cummulative repayment of drawl till prev	-	-
	Net Loan opening	10,465.98	10,465.98
	Increase decrease due to FERV	-	-
	Increase decrease due to ACE	-	-
	Total	10,465.98	10,465.98
	Repayment of loan during the year	-	-
	Net loan closing	10,465.98	10,465.98
	Average net loan	10,465.98	10,465.98
	Rate of interest on loan	1.0049%	1.0049%
	Interest on loan	105.17	105.17
	4.5% Fixed Rate Notes due 2028		
	Gross Drawl opening	45009.50527	45,009.51
	Cummulative repayment of drawl till prev	-	-
	Net Loan opening	45,009.51	45,009.51
	Increase decrease due to FERV	-	-
	Increase decrease due to ACE	-	-
	Total	45,009.51	45,009.51
	Repayment of loan during the year	-	-
	Net loan closing	45,009.51	45,009.51
	Average net loan	45,009.51	45,009.51
	Rate of interest on loan	4.7599%	4.7599%
	Interest on loan	2,142.41	2,142.41

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JPY Equ. 300Million A		
Gross Drawl opening	18336.27386	18,336.27
Cummulative repayment of drawl till prev	-	-
Net Loan opening	18,336.27	18,336.27
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	18,336.27	18,336.27
Repayment of loan during the year	-	-
Net loan closing	18,336.27	18,336.27
Average net loan	18,336.27	18,336.27
Rate of interest on loan	1.0789%	1.0789%
Interest on loan	197.83	197.83
JPY Equ. 300Million B		
Gross Drawl opening	27564.86214	27,564.86
Cummulative repayment of drawl till prev	-	-
Net Loan opening	27,564.86	27,564.86
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	27,564.86	27,564.86
Repayment of loan during the year	-	-
Net loan closing	27,564.86	27,564.86
Average net loan	27,564.86	27,564.86
Rate of interest on loan	1.0789%	1.0789%
Interest on loan	297.40	297.40
3.75% Euro Bonds 2024 II		
Gross Drawl opening	88223.78548	88,223.79
Cummulative repayment of drawl till prev	-	-
Net Loan opening	88,223.79	88,223.79
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	88,223.79	88,223.79
Repayment of loan during the year	-	-
Net loan closing	88,223.79	88,223.79
Average net loan	88,223.79	88,223.79
Rate of interest on loan	3.9666%	3.9666%
Interest on loan	3,499.48	3,499.48
JPY Equ. 750Million I		
Gross Drawl opening	32330.01485	32,330.01
Cummulative repayment of drawl till prev	-	-
Net Loan opening	32,330.01	32,330.01
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	32,330.01	32,330.01
Repayment of loan during the year	-	-
Net loan closing	32,330.01	32,330.01
Average net loan	32,330.01	32,330.01
Rate of interest on loan	0.8831%	0.8831%
Interest on loan	285.51	285.51
JPY Equ. 750Million II		
Gross Drawl opening	14296.94238	14,296.94
Cummulative repayment of drawl till prev	-	-
Net Loan opening	14,296.94	14,296.94
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-

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Total	14,296.94	14,296.94
Repayment of loan during the year	-	-
Net loan closing	14,296.94	14,296.94
Average net loan	14,296.94	14,296.94
Rate of interest on loan	0.8831%	0.8831%
Interest on loan	126.26	126.26
JPY Equ. 750Million III		
Gross Drawl opening	12776.84947	12,776.85
Cummulative repayment of drawl till prev	-	-
Net Loan opening	12,776.85	12,776.85
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	12,776.85	12,776.85
Repayment of loan during the year	-	-
Net loan closing	12,776.85	12,776.85
Average net loan	12,776.85	12,776.85
Rate of interest on loan	0.8831%	0.8831%
Interest on loan	112.83	112.83
JPY Equ. 750Million IV		
Gross Drawl opening	8052.08094	8,052.08
Cummulative repayment of drawl till prev	-	-
Net Loan opening	8,052.08	8,052.08
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	8,052.08	8,052.08
Repayment of loan during the year	-	-
Net loan closing	8,052.08	8,052.08
Average net loan	8,052.08	8,052.08
Rate of interest on loan	0.8831%	0.8831%
Interest on loan	71.11	71.11
JPY Equ. 750Million V		
Gross Drawl opening	8375.535376	8,375.54
Cummulative repayment of drawl till prev	-	-
Net Loan opening	8,375.54	8,375.54
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	8,375.54	8,375.54
Repayment of loan during the year	-	-
Net loan closing	8,375.54	8,375.54
Average net loan	8,375.54	8,375.54
Rate of interest on loan	0.8550%	0.8550%
Interest on loan	71.61	71.61
JPY Equ. 750Million VI		
Gross Drawl opening	10743.78948	10,743.79
Cummulative repayment of drawl till prev	-	-
Net Loan opening	10,743.79	10,743.79
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	10,743.79	10,743.79
Repayment of loan during the year	-	-
Net loan closing	10,743.79	10,743.79
Average net loan	10,743.79	10,743.79
Rate of interest on loan	0.8550%	0.8550%
Interest on loan	91.86	91.86

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Euro Loan I		
Gross Drawl opening	9658.402869	9,658.40
Cummulative repayment of drawl till prev	-	-
Net Loan opening	9,658.40	9,658.40
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	9,658.40	9,658.40
Repayment of loan during the year	-	-
Net loan closing	9,658.40	9,658.40
Average net loan	9,658.40	9,658.40
Rate of interest on loan	0.9669%	0.9669%
Interest on loan	93.39	93.39
Euro Loan II		
Gross Drawl opening	5939.109432	5,939.11
Cummulative repayment of drawl till prev	-	-
Net Loan opening	5,939.11	5,939.11
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	5,939.11	5,939.11
Repayment of loan during the year	-	-
Net loan closing	5,939.11	5,939.11
Average net loan	5,939.11	5,939.11
Rate of interest on loan	0.9664%	0.9664%
Interest on loan	57.40	57.40
Euro Loan III		
Gross Drawl opening	12547.8512	12,547.85
Cummulative repayment of drawl till prev	-	-
Net Loan opening	12,547.85	12,547.85
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	12,547.85	12,547.85
Repayment of loan during the year	-	-
Net loan closing	12,547.85	12,547.85
Average net loan	12,547.85	12,547.85
Rate of interest on loan	0.9664%	0.9664%
Interest on loan	121.26	121.26
USD 750 Million Drawl I		
Gross Drawl opening	8260.40246	8,260.40
Cummulative repayment of drawl till prev	-	-
Net Loan opening	8,260.40	8,260.40
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	8,260.40	8,260.40
Repayment of loan during the year	-	-
Net loan closing	8,260.40	8,260.40
Average net loan	8,260.40	8,260.40
Rate of interest on loan	3.7383%	3.7383%
Interest on loan	308.80	308.80
USD 750 Million Drawl II		
Gross Drawl opening	14002.78875	14,002.79
Cummulative repayment of drawl till prev	-	-
Net Loan opening	14,002.79	14,002.79
Increase decrease due to FERV	-	-
Increase decrease due to ACE	-	-
Total	14,002.79	14,002.79

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Repayment of loan during the year	-	-
Net loan closing	14,002.79	14,002.79
Average net loan	14,002.79	14,002.79
Rate of interest on loan	3.7744%	3.7744%
Interest on loan	528.52	528.52
Gross Drawl opening	7,20,449.48	7,20,449.48
Cummulative repayment of drawl till prev yr	57,252.68	66,141.57
Net Loan opening	6,63,196.80	6,54,307.91
Increase decrease due to FERV	0.00	0.00
Increase decrease due to ACE	0.00	0.00
Total	6,63,196.80	6,54,307.91
Repayment of loan during the year	8,888.89	10,772.22
Net loan closing	6,54,307.91	6,43,535.69
Average net loan	6,58,752.36	6,48,921.80
Rate of interest on loan	4.6958%	4.6589%
Interest on loan	30,933.60	30,232.48

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

SL.NO	PARTICULARS	Unit	Jan'23		Feb'23		Mar'23	
			Domestic Coal		Domestic Coal		Domestic Coal	
			Supplied by MGR	Supplied by Road	Supplied by MGR	Supplied by Road	Supplied by MGR	Supplied by Road
A. OPENING QUANTITY								
1	Opening Quantity of Coal	(MT)						
2	Value of Stock	Rs.						
B. QUANTITY								
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company (+/-) in quantity supplied made by Coal/Lignite	(MT)						
4	Coal supplied by Coal/Lignite Company (+/-)	(MT)	3,006.75					
5	Domestic Coal supplied by MGR	(MT)	0.00					
6	Domestic Coal supplied by Road	(MT)	3,006.75					
7	Net Coal/Lignite supplied (1-6)	(MT)	3,006.75					
C. PRICE								
8	Amount charged by the Coal/Lignite Company	(Rs.)						
9	Adjustment (+/-) in amount charged by Coal/Lignite Company	(Rs.)						
10	Handling Sampling and such other similar Charges	(Rs.)						
11	Total amount charged (8+9+10)	(Rs.)						
D. TRANSPORTATION								
12	Transportation charges by Rail/Ship/Road Transport	(Rs.)						
13	By Road	(Rs.)						
14	Adjustment (+/-) in amount charged by Railways /	(Rs.)						
15	Demurrage charges, if any	(Rs.)						
16	Cost of diesel in transportation cost through MGR systems, if	(Rs.)						
17	Total Transportation Charges (12+13+14+15)	(Rs.)						
18	Total amount charged for coal/Lignite supplied including transportation (11+16)	(Rs.)						
E. TOTAL COST								
19	Landed Cost of Coal/Lignite (2+7)(11+7)	(Rs./MT)						
20	Blending Ratio (Domestic/Imported)							
21	Weighted Average Cost of Coal or Lignite	(Rs./MT)						
F. QUALITY								
22	GCV of Domestic Coal of the Opening Stock as per Bill of Coal Company	(Kcal / Kg)						
23	GCV of Imported Coal of the Opening Stock as per Bill of Coal Company	(Kcal / Kg)						
24	GCV of Domestic Coal supplied as per Bill of Coal Company	(Kcal / Kg)						
25	GCV of Imported Coal/Lignite as Billed	(Kcal / Kg)						
26	Weighted average GCV of Domestic Coal as Received at Station	(Kcal / Kg)						
27	GCV of Domestic Coal supplied as Received at Station	(Kcal / Kg)						
28	GCV of Imported Coal of the Opening Stock as Received at Station	(Kcal / Kg)						
29	GCV of Imported Coal supplied as Received at Station	(Kcal / Kg)						
30	Weighted average GCV of coal/Lignite as Received	(Kcal / Kg)						
								3,489

[Signature]
Petitioner

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

Name of the Petitioner		NTPC Ltd.			
Name of the Generating Station		Telangana STPS Stage-I (2x800 MW)			
S.No.	Particulars	Unit	Jan-23	Feb-23	Mar-23
Month			LDO	LDO	LDO
1	Opening quantity of LDO	KL	5626.324	4874.400	4746.260
2	Value of Stock	Rs.	572719725	467338614	446219685
3	Quantity of LDO supplied by Oil company	KL	993.714	0.000	0.000
4	Adjustment(+/-) in qty. supplied made by Oil Company	KL	0.000	0.000	0.000
5	HFO/LDO supplied by Oil company (3+4)	KL	993.714	0.000	0.000
6	Normative Transit & Handling Losses	KL	0	0	0
7	Net Oil Supplied (5 - 6)	KL	993.714	0.000	0.000
8	Amount charged by the Oil Company	Rs.	93523948	0	0
9	Adjustment (+/-) in amount charged by Oil Company	Rs.	0	0	0
10	Total amount charged (8+9)	Rs.	93523948	0	0
11	Transportation charges by rail/ship/road transport	Rs.			
12	Adjustment (+/-) in amount charged by Railways/Transport Company.	Rs.			
13	Demurrage charges, if any	Rs.			
14	Cost of Diesel in transporting HFO/LDO, if applicable (11+12)	Rs.			
15	Total Transportation Charges (11+/- 12 +13+14)	Rs.	93523948.15	0	0
16	Others	Rs.	0	0	0
17	Total amount charged for LDO	Rs.	93523948	0	0
18	Weighted average GCV of Oil	Kcal/Ltr	10790	10820	10815
19	Weighted average rate of Secondary Fuel	Rs./ KL	100640.46	95876.13	94015.01

Name of the Company: NTPC LTD
Name of the Power Station: TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x600 MW)
Form-15B
Additional Form

Sr.No.	Description	Formula	2019-24	01.04.2023 (Anticipated date of Unit#2 COD) to 30.05.2023	01.04.2023 (Anticipated date of Unit#2 COD) to 31.03.2024
1	Rate of Energy Charge from Sec. Fuel Oil Alternate Fuel (p/kwh)	$(REC)_1$	5.932		
2	Heat Contribution from SFO / Alternate Fuel	(H_1)	5.384		
3	Heat Contribution from coal	(H_2)	2145.48		
4	Specific Primary Fuel Consumption	$(H_1) + (H_2)$	0.624		
5	Rate of Energy charge from (REC) ₂ Primary Fuel (p/kwh)	$(REC)_2$	332.117		
6	Rate of Energy charge ex-bus (p/kwh)	$(REC)_1 + (REC)_2$ $REC / (1 - AUOX)$	363.503		

Computation of Variable Charges

Variable Charge (Coal)	Unit	358.078
Variable Charge (Oil) <td>p/kwh</td> <td>5.472</td>	p/kwh	5.472
Total	p/kwh	363.503

Price of fuel from Form-15/15A

Coal Cost	(Rs./MT)	5322.21
Oil Cost	(Rs./KL)	100640.48

Computation of Fuel Expenses for Calculation of WEC:

ESO in one month	(M\$)	481.872
ESO in 30 days	M\$	454.104
Cost of coal for 30 days	(Rs./Cr.)	102.85
Cost of oil for 1 month	(Rs./Cr.)	2.50
Cost of oil for 2 months	(Rs./Cr.)	5.01
Energy Expenses for 1 month	(Rs./Cr.)	167.82
Energy Expenses for 30 days	(Rs./Cr.)	165.07

Coal

Wtd. Avg. Price of Coal	Rs./MT	5322.21
Wtd. Avg. GCV of Coal as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Sec. Oil

Wtd. Avg. Price of Secondary Fuel	Rs./KL	100640.48
Wtd. Avg. GCV of Secondary Fuel	KCal.	10187.08

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

Oil

Wtd. Avg. Price of Oil	Rs./MT	5322.21
Wtd. Avg. GCV of Oil as received (A)	KCal/Kg	3523.15
Wtd. Avg. GCV for ECR Calculation as per Regulation - I (A) & 3. Kcal/Kg	Kcal/Kg	3438.15

P&ID Expenses for Calculation of WEC:

Specific reagent consumption	Rs./kwh	0.01500
Landed cost of reagent	Rs./MT	2000
Energy Charges for P&ID	(paise/kwh)	3.23
Cost of Limitation for 30 days	(Rs. Lacks)	146.88
		283.16

Do

Calculation of Interest on Working Capital

**PART I
FORM-O**

Name of the Petitioner

NTPC LTD

Name of the Generating Station

TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800 MW)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
		4	6	7	8	9	10
1	Cost of Coal/Lignite I	0.00	0.00	0.00	21680.62		43361.23
1a	Cost of limestone				244.80		489.60
2	Cost of Main Secondary Fuel Oil I	-	-	-	500.95		1,001.90
4	Liquid Fuel Stock						
5	O & M Expenses (including FGD)	0.00	0.00	0.00	1728.67		3283.59
6	Maintenance Spares (including FGD)	0.00	0.00	0.00	4148.81		7880.63
7	Receivables (including FGD)	0.00	0.00	0.00	40651.51		75260.99
8	Total Working Capital	0.00	0.00	0.00	68955.36		131277.94
9	Rate of Interest	0.00%	0.00%	0.00%	12.00%		12.00%
10	Interest on Working Capital	-	-	-	8,274.64		15,753.35

Note:

Petitioner



Details of Capital Spares

Name of the Petitioner: NTPC Limited
Name of the Generating Station: Telangana STPS Stage-1 (2x800 MW)

S. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares
	Name of spare	Amount in Rs. Lakh				
1						
2						
3						
4						
5						
6						
7						
8						

Shall be provided at actual COD of U81/truing up exercise

(Petitioner)

Non-Tariff Income

Name of the Petitioner: **NTPC Limited**

Name of the Generating Station: **Telangana STPS Stage-1 (2x800 MW)**

S. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1.	Income from rent of land or buildings	NA					
2.	Income from sale of scrap	NA					
3.	Income from advertisements	NA					

Shall be provided at actual COD of U#1/truing up exercise

Note: To be submitted at the time of truing up

Details of Water Charges

Name of the Petitioner: NTPC Limited
Name of the Generating Station: Telangana STPS Stage-I (2x800 MW)

S. No.	Details of Water charges (excluding water cess)	Name of source and quantity	Amount	Quantity allocated*	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed (Rs.Lakhs)
1		Sri Pada Yellampally Project on Godavari River		Unit# 1&2		Rs 2.81/Cubic meter		As per Form 3A
2				60 Cusec				

Note: All these details are provisional subject to revision

(Petitioner)

bn

Details of Statutory Charges

Name of the Petitioner: NTPC Limited		Name of the Generating Station: Telangana STPS Stage-I (2x800 MW)	
Particulars	Unit Rate	No of Units	Amount Claimed
Electricity Duty			
Water Cess			
...			
...			
...			

Shall be submitted on actual COD of U#1/truing up exercise.

(Petitioner)

	2.75% Euro Bonds 2027				JPY Fps. 250Million A				Previous Year ERV	JPY	ENR
	EUR	INR	Telangana- EUR	Telangana- INR	JPY	INR	Telangana- JPY	Telangana- INR			
Each rate		72.50									
2016-17											
Opening Balance	50,00,00,000	36,28,02,67,811	2,02,12,517	1,46,66,31,050							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	36,28,02,67,811	3,03,12,517	1,46,66,31,050							
FFRV	(1,03,02,67,811)	(1,03,02,67,811)	(4,18,48,611)	(4,18,48,611)							
Closing Balance	50,00,00,000	35,25,00,00,000	2,02,12,517	1,42,47,69,439							
Each rate		70.50									
2017-18											
Opening Balance	50,00,00,000	35,25,00,00,000	2,02,12,517	1,42,47,69,439							
Drawals	-	-	15,32,377	10,80,32,603							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	35,25,00,00,000	2,17,44,894	1,53,30,13,044							
FFRV	5,27,50,00,000	5,27,50,00,000	(1,00,50,370)	(1,00,50,370)							
Closing Balance	50,00,00,000	40,52,50,00,000	2,17,44,894	1,76,24,23,678							
Each rate		81.03									
2018-19											
Opening Balance	50,00,00,000	40,52,50,00,000	2,17,44,894	1,76,24,23,678							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	40,52,50,00,000	2,17,44,894	1,76,24,23,678							
FFRV	11,10,50,00,000	11,10,50,00,000	(1,00,50,370)	(1,00,50,370)							
Closing Balance	50,00,00,000	39,42,00,00,000	2,17,44,894	1,71,43,67,461							
Each rate		78.84									
2019-20											
Opening Balance	50,00,00,000	39,42,00,00,000	2,17,44,894	1,71,43,67,461							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	39,42,00,00,000	2,17,44,894	1,71,43,67,461							
FFRV	2,79,50,00,000	2,79,50,00,000	(1,13,33,693)	(1,13,33,693)							
Closing Balance	50,00,00,000	42,21,50,00,000	2,17,44,894	1,83,59,21,420							
Each rate		84.43									
2020-21											
Opening Balance	50,00,00,000	42,21,50,00,000	2,17,44,894	1,83,59,21,420							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	42,21,50,00,000	2,17,44,894	1,83,59,21,420							
FFRV	2,79,50,00,000	2,79,50,00,000	(1,13,33,693)	(1,13,33,693)							
Closing Balance	50,00,00,000	43,31,50,00,000	2,17,44,894	1,83,59,21,420							
Each rate		84.43									
2021-22											
Opening Balance	50,00,00,000	43,31,50,00,000	2,17,44,894	1,83,59,21,420							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	43,31,50,00,000	2,17,44,894	1,83,59,21,420							
FFRV	1,42,50,00,000	1,42,50,00,000	(1,30,27,489)	(1,30,27,489)							
Closing Balance	50,00,00,000	43,64,00,00,000	2,17,44,894	1,85,78,94,309							
Each rate		87.28									
2022-23											
Opening Balance	50,00,00,000	43,64,00,00,000	2,17,44,894	1,85,78,94,309							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	43,64,00,00,000	2,17,44,894	1,85,78,94,309							
FFRV	(78,00,00,000)	(78,00,00,000)	(1,30,27,489)	(1,30,27,489)							
Closing Balance	50,00,00,000	42,88,00,00,000	2,17,44,894	1,86,48,42,120							
Each rate		85.76									
2023-24											
Opening Balance	50,00,00,000	42,88,00,00,000	2,17,44,894	1,86,48,42,120							
Drawals	-	-	-	-							
Repayments	-	-	-	-							
Closing Balance	50,00,00,000	42,88,00,00,000	2,17,44,894	1,86,48,42,120							
FFRV	(2,25,50,00,000)	(2,25,50,00,000)	(1,30,27,489)	(1,30,27,489)							
Closing Balance	50,00,00,000	40,62,50,00,000	2,17,44,894	1,76,67,72,637							

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Year-wise details of EERV rates COID for Telangana as at 30.09.2021

	1.25% Euro Bonds 2017				JPY Eqs. 350Million A						
	EUR	INR	Telangana- EUR	Telangana- INR	JPY	INR	Telangana- JPY	Telangana- INR	Previous Year ERV	JPY	INR
Each rate		72.56	4.1489%	4.3489%			4.23347%	4.23747%			
Each rate		81.25				0.5713					0.3713

34,97,94,81.106

for

Year/wise Details of FERV as

Eqa. 350Million B		Eqa. 30Million A	
Each rate	10.84641%	10.84641%	19.70490%
Opening Balance	10.84641%	10.84641%	19.70490%
Drawals	10.84641%	10.84641%	19.70490%
Repayments	10.84641%	10.84641%	19.70490%
Closing Balance	10.84641%	10.84641%	19.70490%
FERV	10.84641%	10.84641%	19.70490%
Each rate	10.84641%	10.84641%	19.70490%
2016-17			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2017-18			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2018-19			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2019-20			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2020-21			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2021-22			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2022-23			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2023-24			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			
2024-25			
Opening Balance			
Drawals			
Repayments			
Closing Balance			
FERV			
Each rate			

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	Previous Year ERV		JPY Eqn. 100Million B		3.15 % Euro Bonds 2024 II				Previous Year ERV	JPY
	JPY	ENR	Telanganam-JPY	Telanganam-INR	USD	INR	Telanganam-USD	Telanganam-INR		
			29,12000%	29,12000%	21.8701%	21.8701%	21.8701%	21.8701%		
Each rate										
2016-17										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2017-18										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2018-19										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2019-20										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2020-21										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2021-22										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2022-23										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										
2023-24										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
PERV										

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	JPY Eqs. 760Millions I				JPY Eqs. 760Millions II				JPY Eqs. 760Millions III				
	ENR	Totals- JPY	Totals- INR	Previous Year ERV	JPY	ENR	Totals- JPY	Totals- INR	Previous Year ERV	JPY	ENR	Totals- JPY	Totals- INR
Each rate		25.9176%	3.7214%				23.2965%	23.2965%				21.1811%	
2016-17													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													
2017-18													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													
2018-19													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													
2019-20													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													
2020-21													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													
2021-22													
Opening Balance													
Drawals													
Repayments													
Closing Balance													
FRRV													
Each rate													

2

Year-wise details of FERV as

	Telangana- INR 21.1811%			JPY Eqa. 250Million IV			JPY Eqa. 250Million V			
	Each rate	Previous Year ERV	INR	JPY	Telangana- JPY 13.3772%	Previous Year ERV	INR	JPY	Telangana- JPY 14.0149%	Previous Year ERV
2016-17										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2017-18										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2018-19										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2019-20										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2020-21										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2021-22										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2022-23										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										
2023-24										
Opening Balance										
Drawals										
Repayments										
Closing Balance										
FERV										
Closing Balance										
Each rate										

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Year-wise details of FERV as

	JPY		INR		JPY Eqs. 350 Million VI		INR		EUR (100 Euro Drawl)		Previous Year		EUR	INR	EU
	12.89.05.84.717	12.89.05.84.717	12.89.05.84.717	12.89.05.84.717	14.081%	14.081%	14.081%	14.081%	24.291%	24.291%	ERV	ERV			
Each rate				0.65463				0.65463							
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Each rate															
2018-19															
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Each rate															
2019-20															
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Each rate															
2020-21															
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Each rate															
2021-22															
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Each rate															
2022-23															
Opening Balance															
Drawals															
Repayments															
Closing Balance															
FERV															
Closing Balance															

Year-wise details of FFRV as

	JPY Equ. 350000000000 VI		EUR Loan Drawl		EUR	INR
	Tejagan- JPY	Tejagan- INR	Tejagan- EUR	Tejagan- INR		
Each rate	14.5815%	14.5815%	24.2515%	24.2515%	Previous Year	Previous Year
Each rate	0.5711				EUR	INR
						81,2500
						81,2500

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W

Year-wise details of FFRV 39

	ID Loan Drossel II				EURO Loan Drossel III				USD 750 Million Drossel I			
	Telanganam- EUR 8.6725%	Telanganam- INR 8.6725%	Previous Year ERV	EUR	INR	Telanganam- EUR 18.2725%	Telanganam- INR 18.2725%	Previous Year ERV	USD	INR	Telanganam- USD 10.0447%	Telanganam- INR 10.0447%
Each rate												
2016-17												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2017-18												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2018-19												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2019-20												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2020-21												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2021-22												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2022-23												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2023-24												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2024-25												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2025-26												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2026-27												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2027-28												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2028-29												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2029-30												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2030-31												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2031-32												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2032-33												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2033-34												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2034-35												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2035-36												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2036-37												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2037-38												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2038-39												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2039-40												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2040-41												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2041-42												
Opening Balance												
Drawals												
Repayments												
Closing Balance												
PERV												
2042-43												
Opening Balance												

Year-Wise details of ERV as

Previous Year ERV	USD	USD 5M Millions Days 18		Previous Year ERV
		INR	Telangana-USD	
			17.0207%	17.0207%
Each rate				
Each rate		41.2400		

by

Detail of ERV not taken to capital cost For Telangana

Year	Quarter	Amount in Rs. lakhs			
		Loan ERV	Other than Loan ERV	Total ERV charged to P&L	Cumulative ERV charged to P&L
2016-17	Q1	0	0	0	-
	Q2	0	0	0	-
	Q3	0	0	0	-
	Q4	0	0	0	-
2017-18	Q1	-416.4861121	0	(416.49)	(416.49)
	Q2	751.5584907	0	751.56	335.07
	Q3	426.5231363	0	426.52	761.60
	Q4	-274.3638315	0	(274.36)	487.23
2018-19	Q1	1611.935123	0	1,611.94	2,099.17
	Q2	1701.516805	0	1,701.52	3,800.68
	Q3	2799.671093	0	2,799.67	6,600.35
	Q4	-2630.523977	0	(2,630.52)	3,969.83
2019-20	Q1	-1869.215457	0	(1,869.22)	2,100.62
	Q2	744.2656898	0	744.27	2,844.88
	Q3	-2844.88096	170.951772	(2,673.93)	170.95
	Q4	0	422.5591568	422.56	593.51
2020-21	Q1	0	849.1512687	849.15	1,442.66
	Q2	0	-1128.912135	(1,128.91)	313.75
	Q3	0	1229.381026	1,229.38	1,543.13
	Q4	0	290.4609419	290.46	1,833.59
2021-22	Q1	0	0	-	1,833.59
	Q2	0	-72.535779	(72.54)	1,761.06
	Q3	0	-242.8338632	(242.83)	1,518.22
	Q4	0	-172.956508	(172.96)	1,345.27
2022-23	Q1	-5961.670747	150.6082846	150.61	1,495.87
	Q2	-282.6854514	176.7108557	(5,784.96)	(4,289.09)
			74.0228108	(208.66)	(4,497.75)
		(6,244.36)	1,746.61		(4,497.75)

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Total FERV not taken to capital Cost

Sr. No.	Particulars	As on 1st unit COD		As on 2nd unit COD	
		Amount (in Rs. Lakhs)			
1	Loan ERV treated as Borrowing Cost drawn after 01.04.2016 transfer to P&L				
2	Loan FERV after 01.04.2016 transfer to P&L		-6244.36		
3	SHORT Term Loan ERV				
4	Other than Loan ERV		1746.61		
	Total		-4497.75		

Dept	S.No	Series/Loan	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Bonds	1	61	2.31	0.97	0.93	0.90	0.69	0.43	0.34
Bonds	2	66	0.52	0.43	0.41	0.39	0.34	0.29	0.25
Bonds	3	69	-	-	-	3.08	2.14	1.85	1.59
Bonds	4	73	-	-	-	-	0.52	0.47	0.39
Bonds	5	74	-	-	-	-	-	1.96	0.79
Bonds	6	75	-	-	-	-	-	0.58	0.37
Bonds	7	76	-	-	-	-	-	0.83	0.34
Bonds	8	78	-	-	-	-	-	-	0.48
Budget	9	AXIS BANK-II	-	-	-	-	-	-	-
Budget	10	AXIS BANK-III	-	-	-	-	-	-	-
Budget	11	HDFC Bank Limited-III	-	-	-	-	-	-	-
Budget	12	HDFC Bank Limited-IV	-	-	-	-	-	-	-
Budget	13	HDFC Bank Limited-V	-	-	-	-	-	-	-
Budget	14	HDFC Bank Limited-VI	-	-	-	-	-	-	-
Budget	15	HDFC Bank Limited-VII	-	-	-	-	-	-	-
Budget	16	HDFC-IX	-	-	-	-	-	-	-
Budget	17	HDFC-X	-	-	-	-	-	-	-
Budget	18	HDFC-III	-	-	-	-	-	-	-
Budget	19	HDFC Bank-IV	-	-	-	-	-	-	-
Budget	20	PNB-V	-	-	-	-	-	-	-
Budget	21	State Bank of India - VIII	3.17	-	-	-	-	-	-
Budget	22	State Bank of India - IX	-	-	-	-	-	-	-
Budget	23	State Bank of India - X	-	-	-	-	-	-	-
Budget	24	State Bank of India - XI	-	-	-	-	-	-	-
Budget	25	State Bank of India - XII	-	-	-	-	-	-	-
Budget	26	Syndicate Bank-IV	-	-	-	-	-	-	-
IF	27	3.75 % Euro Bonds 2024 II	-	-	-	205.11	-	-	-
IF	28	4.50 % Euro Bonds 2028	-	346.83	-	-	-	-	-
IF	29	2.75 % Euro Bonds 2027	126.08	-	-	-	-	-	-
IF	30	7.25 % Masala Bonds 2022	-	31.71	-	-	-	-	-
IF	31	JPY Equ. 350Million A	-	188.63	-	-	-	-	-
IF	32	JPY Equ. 350Million B	-	355.40	-	-	-	-	-
IF	33	JPY Equ. 300Million A	-	-	742.67	-	-	-	-
IF	34	JPY Equ. 300Million B	-	-	1,092.37	-	-	-	-
IF	35	JPY Equ. 750 Million I	-	-	-	1,010.88	-	-	-
IF	36	JPY Equ. 750 Million B	-	-	-	-	450.42	-	-
IF	37	JPY Equ. 750 Million II	-	-	-	-	409.66	-	-
IF	38	JPY Equ. 750 Million IV	-	-	-	-	258.26	-	-
IF	39	JPY Equ. 750 Million V	-	-	-	-	271.07	-	-
IF	40	JPY Equ. 750 Million VI	-	-	-	-	352.59	-	-
IF	41	Euro Loan I Draw I	-	-	-	-	-	274.02	-
IF	42	Euro Loan I Draw II	-	-	-	-	-	163.13	-
IF	43	Euro Loan I Draw III	-	-	-	-	-	343.53	-
IF	44	USD 750 Million Draw I	-	-	-	-	-	-	140.01
IF	45	USD 750 Million Draw II	-	-	-	-	-	-	237.33
		Total	132.09	923.98	1,836.37	1,220.35	1,745.67	787.09	381.90

Total Transaction cost 7,027.44

Finance Charges capitalized through amortization as IDC

2016-17	2.95
2017-18	29.25
2018-19	138.28
2019-20	364.08
2020-21	648.65
2021-22	803.74
2022-23 (till 30.09.2022)	414.89
Total	2,401.84

Unamortised transaction cost 4,625.60

Name of the Company **NTPC LTD**
Name of the Power Station **TELANGANA**

Name of the Bank	Drawl Amount	Drawl Date	Interest Details	
			w.e.f.	ROI
AXIS Bank-II	20,00,00,000	30-Jan-20	30-Jan-20	7.60%
			26-Feb-20	7.45%
			26-Apr-20	6.70%
			26-May-20	6.30%
			28-May-22	6.70%
			28-Jun-22	7.20%
			28-Aug-22	7.70%
Axis Bank-III	1,30,00,00,000	24-Aug-20	24-Aug-20	6.30%
			24-May-22	6.70%
			24-Jun-22	7.20%
			24-Aug-22	7.70%
HDFC Bank Limited-III	4,00,00,000.00	21-04-2016	21-Apr-16	9.30%
	20,00,00,000.00	30-09-2016	01-Jul-16	9.15%
			07-Jul-16	9.10%
			14-Dec-16	8.90%
			07-Jan-17	8.15%
			07-Feb-17	7.95%
			07-Feb-18	8.00%
			01-Jul-18	8.10%
			01-Oct-18	8.30%
			01-Jan-19	8.45%
			01-Jul-19	8.40%
			29-Jul-19	8.30%
			29-Aug-19	8.20%
			29-Sep-19	8.10%
			29-Oct-19	8.00%
			01-Dec-19	7.65%
			01-Mar-20	7.45%
			01-Jun-20	6.30%
			24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC Bank Limited-IV	1,15,00,00,000	02-Jul-18	02-Jul-18	8.00%
			17-Jul-18	8.10%
			17-Oct-18	8.35%
			17-Jan-19	8.45%
			17-Apr-19	8.40%
			29-Jul-19	8.30%

			29-Aug-19	8.20%
			29-Sep-19	8.10%
			29-Oct-19	8.00%
			01-Dec-19	7.65%
			01-Mar-20	7.45%
			01-Jun-20	6.30%
			24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC Bank Limited-V	16,00,00,000	25-Sep-17	25-Sep-17	7.90%
	12,00,00,000	13-Nov-17	25-Dec-17	7.85%
	10,00,00,000	21-Dec-17	25-Mar-18	8.00%
	80,00,00,000	26-Sep-18	25-Jun-18	8.10%
			25-Sep-18	8.30%
			25-Dec-18	8.45%
			25-Jun-19	8.40%
			29-Jul-19	8.30%
			29-Aug-19	8.20%
			29-Sep-19	8.10%
			29-Oct-19	8.00%
			01-Dec-19	7.65%
			01-Mar-20	7.45%
			01-Jun-20	6.30%
			24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC Bank Ltd. VI	42,00,00,000	11-Oct-18	11-Oct-18	8.30%
	30,00,00,000	01-01-2020	26-Dec-18	8.45%
			26-Jun-19	8.40%
			29-Jul-19	8.30%
			29-Aug-19	8.20%
			29-Sep-19	8.10%
			29-Oct-19	8.00%
			01-Dec-19	7.65%
			01-Mar-20	7.45%
			01-Jun-20	6.30%
			24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC Bank Limited-VII	30,00,00,000	21-Jun-19	21-Jun-19	8.40%
	50,00,00,000	01-Mar-21	29-Jul-19	8.30%
			29-Aug-19	8.20%
			29-Sep-19	8.10%
			29-Oct-19	8.00%
			01-Dec-19	7.65%

			01-Mar-20	7.45%
			01-Jun-20	6.30%
			24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC-IX	35,00,00,000	13-Aug-20	13-Aug-20	6.30%
	1,20,00,00,000	07-Dec-20	24-Dec-20	5.95%
			24-May-22	6.35%
			24-Jun-22	6.85%
			24-Aug-22	7.35%
HDFC-X	23,00,00,000	21-Mar-22	21-Mar-22	5.83%
	88,00,00,000	02-May-22	24-May-22	6.23%
			24-Aug-22	7.23%
IDFC-III	1,50,00,00,000	01-Sep-18	01-Sep-18	8.20%
			01-Oct-18	8.40%
			01-Nov-18	8.50%
			01-Feb-19	8.65%
IDFC Bank-IV	40,00,00,000	12-Feb-18	12-Feb-18	7.80%
	35,00,00,000	28-Feb-18	12-Mar-18	8.05%
			12-Apr-18	8.00%
			12-May-18	8.20%
			12-Sep-18	8.40%
			12-Oct-18	8.50%
			12-Jan-19	8.65%
			12-Feb-19	8.60%
PNB-V	11,00,00,000	15-Jun-21	15-Jun-21	5.70%
	35,00,00,000	14-Jul-21	21-Sep-21	5.80%
			21-Jun-22	6.70%
			01-Sep-22	7.20%
State Bank of India - VIII	2,25,00,00,000	29-Sep-16	29-Sep-16	9.10%
			14-Feb-17	8.30%
			14-Aug-17	7.90%
			14-Nov-17	7.85%
			14-Aug-18	7.95%
			14-Nov-18	8.20%
			14-Feb-19	8.25%
			14-May-19	8.15%

			14-Aug-19	7.95%
			14-Nov-19	7.70%
			14-Feb-20	7.65%
			14-May-20	7.00%
			14-Aug-20	6.65%
			14-May-22	6.75%
			14-Aug-22	7.15%
State Bank of India - IX	16,00,00,000	04-May-17	04-May-17	7.90%
	45,00,00,000	20-Jun-18	14-Nov-17	7.85%
	30,00,00,000	27-Jun-18	14-Aug-18	7.95%
	75,00,00,000	29-Jun-18	14-Nov-18	8.20%
			14-Feb-19	8.25%
			14-May-19	8.15%
			14-Aug-19	7.95%
			14-Nov-19	7.70%
			14-Feb-20	7.65%
			14-May-20	7.00%
			14-Aug-20	6.65%
			14-May-22	6.75%
			14-Aug-22	7.15%
State Bank of India - X	15,00,00,000	04-Oct-17	04-Oct-17	7.90%
	5,00,00,000	21-Dec-17	25-Dec-17	7.85%
	1,00,00,00,000	12-Mar-18	25-Jun-18	7.95%
			25-Sep-18	8.15%
			25-Dec-18	8.25%
			25-Jun-19	8.15%
			25-Sep-19	7.85%
			25-Dec-19	7.70%
			25-Mar-20	7.50%
			25-Jun-20	6.75%
			25-Sep-20	6.65%
			25-Jun-22	7.05%
			25-Sep-22	7.35%
State Bank of India - XI	90,00,00,000	16-Oct-18	16-Oct-18	8.30%
	1,75,00,00,000	22-Nov-18	11-Jan-19	8.35%
	1,20,00,00,000	11-Dec-18	11-Apr-19	8.30%
			11-Jul-19	8.20%
			11-Oct-19	7.85%
			11-Jan-20	7.75%
			01-Feb-20	7.70%
			11-Apr-20	7.15%
			11-Jul-20	6.65%
			11-Jul-22	7.05%

State Bank of India - XII	70,00,00,000	11-Feb-19	11-Feb-19	8.35%
	2,25,00,00,000	18-Feb-19	11-May-19	8.25%
	60,00,00,000	26-Mar-19	11-Aug-19	8.05%
	50,00,00,000	12-Apr-19	11-Nov-19	7.80%
			11-Jan-20	7.75%
			01-Feb-20	7.70%
			11-Apr-20	7.15%
			11-Jul-20	6.65%
			11-Jul-22	7.05%
Syndicate Bank-IV	1,30,00,00,000	24-Jan-20	24-Jan-20	7.60%
			24-Feb-20	7.55%
			24-Apr-20	7.50%
			24-Jun-20	7.30%
			24-Jul-20	7.20%

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FORM - 14 (Quarterly)
 Name of the Company
 Name of the Power Station

Draw down Schedule for Calculation of DC & Financial Charges for Bonds
 MPPCL LIMITED
 Tehrigarh

Series	Description	2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		Total FY 2018-19	Total FY 2019-20
		01.04.18 to 30.06.18	01.07.18 to 30.06.19	01.07.18 to 30.06.19	01.07.19 to 30.06.20	01.07.19 to 30.06.20	01.07.20 to 30.06.21	01.07.20 to 30.06.21	01.07.21 to 30.06.22	01.07.21 to 30.06.22	01.07.22 to 30.06.23	01.07.22 to 30.06.23			
MPPCL	Net Interest Charges	7,23,815	9,67,813	54,81,201	47,42,904	47,42,904	47,42,904	47,42,904	47,42,904	47,42,904	47,42,904	47,42,904	47,42,904	1,19,35,769	1,19,35,769
	Financial Charges														
	Draw Amount														
	Interest Debt														
	Interest Credit														
MPPCL	Adjustment Amount														
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	Interest Credit														
MPPCL	Adjustment Amount														
	Net Interest Charges														
	Financial Charges														
	Draw Amount														
	Interest Debt														
MPPCL	Interest Credit														
	Adjustment Amount														
	Net Interest Charges														

Drawdown Schedule for Calculation of EOC & Financial Charges for Bonds

Name of the Company
MTPC LIMITED
Name of the Power Station
Telangana

Series	Description	2018-2017		2017-2016		2017-2015		Total FY 2018-17
		01.04.18 to 30.06.18	01.07.18 to 30.06.18	01.05.17 to 31.12.16	01.07.17 to 30.06.17	01.05.17 to 31.12.17	01.01.16 to 31.03.16	
2.28 % New Issue 2022	Drawn Amount				65,13,86,320			
	Interest Credit				3,54,32,436			
	Withholding Tax				72,44,132			
	Adjustment Amount				4,91,361			
	Net Interest Charges				14,38,822			
	Financial Charges				4,81,632			
2018 Iss. 2018-16	Drawn Amount				1,90,75,586			
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-15	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-14	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-13	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-12	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-11	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-10	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-09	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-08	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-07	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-06	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-05	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-04	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-03	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-02	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-01	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-12	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-11	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-10	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-09	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-08	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-07	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-06	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-05	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-04	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-03	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-02	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							
2018 Iss. 2018-01	Drawn Amount							
	Interest Credit							
	Withholding Tax							
	Adjustment Amount							
	Net Interest Charges							
	Financial Charges							

Draw-down Schedule for Calculation of DC & Financial Charges for Bonds

Name of the Company: NTPC LIMITED
 Name of the Power Station: Talangana

Scries	Description	2016-2017				2017-2018			
		01.04.16 to 30.06.16	01.07.16 to 30.09.16	01.10.16 to 31.03.16	01.01.17 to 31.03.17	01.04.17 to 30.06.17	01.07.17 to 30.09.17	01.10.17 to 31.03.17	01.04.18 to 31.03.18
	Subscribed Amount	56,86,602	2,59,76,812	8,21,18,136	8,50,48,474	10,88,30,034	10,11,18	-	-
	Net Interest Charges	1,69,965	3,02,499	42,506	1,76,93,538	1,32,08,509	31,82,238	12,14,27,221	5,44,02,569
	Financial Charges	-	-	-	-	-	-	-	-
	Total	58,56,567	2,62,79,311	8,25,60,642	10,27,42,012	12,20,38,543	31,82,238	12,26,44,441	5,49,44,598
	Drawal	4,00,00,000	2,45,00,00,000	-	-	2,48,00,00,000	35,00,00,000	16,00,00,000	42,00,00,000
	Budget	1,17,00,00,000	-	58,00,00,000	-	1,75,00,00,000	-	-	-
	#	-	-	-	1,46,06,31,139	1,46,06,31,139	18,99,81,015	80,51,64,305	1,17,48,33,092
	Total Drawal	1,21,00,00,000	2,45,00,00,000	58,00,00,000	1,46,06,31,139	1,46,06,31,139	18,99,81,015	80,51,64,305	1,17,48,33,092
	Cumulative Drawal	1,21,00,00,000	3,66,00,00,000	4,24,00,00,000	5,70,06,31,139	6,05,06,31,139	7,02,13,78,499	7,82,65,42,804	8,61,09,11,591
	Engagement	0	0	0	0	0	0	0	0
	Un-Engagement	0	0	0	0	0	0	0	0
	Commitment Per Year	1,21,00,00,000	3,66,00,00,000	4,24,00,00,000	5,70,06,31,139	6,05,06,31,139	7,02,13,78,499	7,82,65,42,804	8,61,09,11,591
	DIRTY	-	-	-	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)
	Sum DIRTY	-	-	-	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)	(4,16,48,611)
	Net Commitment Less the DIRTY	1,21,00,00,000	3,66,00,00,000	4,24,00,00,000	5,66,45,81,238	6,01,49,82,528	6,98,01,29,888	7,82,65,42,804	8,57,23,12,980
	Net Commitment Less the DIRTY (in lakhs)	12,100.00	36,600.00	42,400.00	56,645.83	60,149.84	69,803.30	78,265.42	85,723.63
	Net Charges	7,21,626	20,89,589	5,70,89,414	3,32,00,712	11,29,03,341	5,33,25,069	5,40,96,630	6,03,38,548
	Budget	49,62,986	2,38,87,233	2,50,28,712	3,13,11,388	4,70,00,119	3,42,84,811	3,46,61,567	3,46,61,567
	#	-	-	-	(10,83,426)	(10,83,426)	1,06,76,979	3,26,75,824	2,78,42,818
	Total	56,86,602	2,59,76,822	8,21,18,136	8,50,48,474	9,82,86,850	12,14,27,221	12,26,44,441	14,33,45,738
	Financial Charges	-	2,52,809	-	64,193	3,17,082	-	-	-
	Budget	1,69,965	40,606	42,506	20,879	2,83,040	11,314	-	-
	#	-	-	-	1,26,08,466	1,26,08,466	31,70,934	-	-
	Total FC	1,69,965	3,02,499	42,506	1,26,08,466	1,26,08,466	31,70,934	5,44,02,569	1,29,379
	Interest Rate	8.48%	8.27%	8.84%	8.73%	8.88%	8.74%	8.67%	8.41%

*None costs have been considered in finance charges on the basis of payment and not on amortisation basis.

Name of the Company
Name of the Power Station

Series	Description	Total FY 2011-12
	Net Interest Charges	1,963,874.50
	Financial Charges	-
EDFC Base Limited-IV	Drawn Amount	-
	Interest Credit	-
	Interest Debit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
EDFC Base Limited-IV	Drawn Amount	34,000,000.00
	Interest Credit	-
	Interest Debit	1,221,861,193.00
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	1,221,861,193.00
EDFC Base Limited-IV	Drawn Amount	-
	Interest Credit	-
	Interest Debit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
EDFC Base Limited-IV	Drawn Amount	-
	Interest Credit	-
	Interest Debit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
EDFC #	Drawn Amount	-
	Interest Credit	-
	Interest Debit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
EDFC Base-IV	Drawn Amount	75,000,000.00
	Interest Credit	-
	Interest Debit	65,991,176.00
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	65,991,176.00
EDFC #	Drawn Amount	-
	Interest Credit	-
	Interest Debit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-

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FCM 14 - 14 (Quarterly)

Name of the Company
Name of the Power Station

Series	Description	Total FY 2015-16
228 N. Hauls Book 202	Druid Amount	88,41,87,231
	Interest Credit	5,84,03,487
	Interest Credit	77,25,483
	Withholding Tax	31,18,481
	Adjustment Amount	-
	Net Interest Charges	9,28,86,485
	Financial Charges	21,79,924
		-
PT Eqs. 202Haul-1	Druid Amount	55,29,87,821
	Interest Credit	28,47,258
	Interest Credit	12,86,254
	Withholding Tax	1,42,254
	Adjustment Amount	-
	Net Interest Charges	14,06,348
	Financial Charges	1,88,83,882
		-
PT Eqs. 202Haul-2	Druid Amount	1,54,18,87,588
	Interest Credit	20,84,038
	Interest Credit	34,31,148
	Withholding Tax	5,78,242
	Adjustment Amount	-
	Net Interest Charges	7,89,232
	Financial Charges	3,85,79,889
		-
PT Eqs. 202Haul-3	Druid Amount	9
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-4	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-5	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-6	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-7	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-8	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-9	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-10	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-11	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-12	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-13	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-14	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-
PT Eqs. 202Haul-15	Druid Amount	-
	Interest Credit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
		-

for

FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Series	Description	Total FY 2017-18
	Adjustment Amount	183,318
	Net Interest Charges	48,519,22,740
	Financial Charges	9,23,97,664

Direct	2,49,00,00,000
Budget	
Service	
IP	
Total Direct	4,08,65,88,961
Cumulative Direct	

Expenses	
Cost Reimbursement	

Commissions Not Issued	
------------------------	--

FERV	
Cost FERV	

Net Current Liabilities	
FERV	

Net Current Liabilities	
FERV (Debit)	

Net Charges	24,32,62,359
Budget	53,75,18,000
Service	
IP	10,71,24,383
Total	

Financial Charges	
Budget	1,40,689
Service	
IP	
Total FC	9,23,97,664

Interest Rate	
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2458604.317

*Issue costs have to be

for

Name of the Company
Name of the Power Station

Service	Description	2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020	
		01/01/14 to 30/06/14	01/07/14 to 30/06/15	01/01/15 to 31/12/15	01/01/15 to 31/03/16	01/04/16 to 30/06/16	01/07/16 to 30/06/17	01/07/17 to 30/06/18	01/07/18 to 30/06/19	01/07/19 to 31/12/19	01/01/20 to 31/03/20	01/04/20 to 31/03/20	01/04/20 to 31/03/20
Base Rate of Incls - 18	Draught Amount	4,40,35,774	4,48,11,958	4,58,25,723	4,56,34,479	18,82,10,874	18,82,10,874	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771
	Interest Credit	-	-	-	-	-	-	-	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	-	-	-	-	-	-	-	-	-	-
	Financial Charges	4,40,35,774	4,48,11,958	4,58,25,723	4,56,34,479	18,82,10,874	18,82,10,874	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771	4,58,11,771
Base Rate of Incls - 28	Draught Amount	45,00,00,000	1,00,00,00,000	4,90,70,349	3,30,68,070	1,00,00,00,000	1,00,00,00,000	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398
	Interest Credit	44,54,964	1,81,75,217	4,90,70,349	3,30,68,070	1,00,00,00,000	1,00,00,00,000	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	41,54,036	1,81,75,217	4,90,70,349	3,30,68,070	1,00,00,00,000	1,00,00,00,000	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398
	Financial Charges	41,54,036	1,81,75,217	4,90,70,349	3,30,68,070	1,00,00,00,000	1,00,00,00,000	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398	3,30,25,398
Base Rate of Incls - 3	Draught Amount	2,35,05,700	2,42,81,480	2,46,73,674	2,44,10,957	8,68,73,615	8,68,73,615	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
	Interest Credit	-	-	-	-	-	-	-	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	-	-	-	-	-	-	-	-	-	-
	Financial Charges	2,35,05,700	2,42,81,480	2,46,73,674	2,44,10,957	8,68,73,615	8,68,73,615	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
Base Rate of Incls - 0	Draught Amount	-	-	3,65,00,000	8,63,10,961	11,06,21,820	11,06,21,820	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
	Interest Credit	-	-	2,83,10,819	8,63,10,961	11,06,21,820	11,06,21,820	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	816,881,81	8,63,10,961	11,06,21,820	11,06,21,820	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
	Financial Charges	-	-	816,881,81	8,63,10,961	11,06,21,820	11,06,21,820	2,46,82,485	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792	2,45,81,792
Synthetic Benefit	Draught Amount	-	-	-	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793
	Interest Credit	-	-	-	-	-	-	-	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	-	-	-	-	-	-	-	-	-	-
	Financial Charges	-	-	-	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793	3,02,68,793
2.5 % - Gov Bonds 2010	Draught Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Interest Credit	-	-	-	-	-	-	-	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	-	-	-	-	-	-	-	-	-	-
	Financial Charges	-	-	-	-	-	-	-	-	-	-	-	-
2.5 % - Gov Bonds 2012	Draught Amount	3,08,50,11,022	4,61,01,271	4,31,47,883	4,27,42,794	2,08,90,31,012	2,08,90,31,012	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883
	Interest Credit	4,29,77,870	1,43,08,287	1,18,60,023	1,18,60,023	4,61,01,271	4,61,01,271	4,61,01,271	4,61,01,271	4,61,01,271	4,61,01,271	4,61,01,271	4,61,01,271
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	3,08,50,11,022	4,61,01,271	4,31,47,883	4,27,42,794	2,08,90,31,012	2,08,90,31,012	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883
	Financial Charges	3,08,50,11,022	4,61,01,271	4,31,47,883	4,27,42,794	2,08,90,31,012	2,08,90,31,012	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883	4,31,47,883
2.5 % - Gov Bonds 2017	Draught Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Interest Credit	-	-	-	-	-	-	-	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-	-	-	-	-	-	-	-
	Net Interest Charges	-	-	-	-	-	-	-	-	-	-	-	-
	Financial Charges	-	-	-	-	-	-	-	-	-	-	-	-

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Name of the Company
Name of the Power Station

Serial	Description	2014-2015			2015-2016			2016-2017			2017-2018		
		01.04.14 to 30.06.14	01.07.14 to 30.06.15	01.07.15 to 31.03.15	01.04.15 to 30.06.15	01.07.15 to 30.06.16	01.07.16 to 31.03.16	01.04.16 to 30.06.16	01.07.16 to 30.06.17	01.07.17 to 31.03.17	01.04.17 to 30.06.17	01.07.17 to 30.06.18	
	Adjustment Amount	(7,92,002)				(7,92,002)							
	Net Interest Charges	10,57,81,896	26,94,60,474	37,04,52,821	41,70,34,124	1,25,27,34,415	50,79,78,765	61,05,80,968	61,05,80,968	1,01,871		81,55,00,271	
	Financial Charges	11,077	71,104	51,765	18,35,03,219	18,36,37,242	2,05,77,856	2,05,479				32,10,88,403	
	Grand	45,00,00,000	4,50,00,00,000	4,27,00,00,000	3,55,00,00,000	12,77,00,00,000	80,00,00,000	2,05,479	2,05,479	1,01,871		1,80,00,00,000	
	Budget												
	Spent												
	Balance												
	Total	2,06,34,91,612	4,50,00,00,000	4,27,00,00,000	3,55,00,00,000	12,77,00,00,000	80,00,00,000	2,05,479	2,05,479	1,01,871		1,80,00,00,000	
	Cumulative Grand	2,51,50,91,612	4,50,00,00,000	4,27,00,00,000	3,55,00,00,000	12,77,00,00,000	80,00,00,000	2,05,479	2,05,479	1,01,871		1,80,00,00,000	
	Adjustment	14,79,83,11,112	19,29,83,11,112	21,56,83,11,112	30,03,95,42,280	7,23,63,22,180	43,24,39,33,174	41,89,98,86,885	48,87,67,27,539	48,87,67,27,539	270,000,000	270,000,000	
	Net Expenditure	0	0	0	0	0	0	0	0	0	0	0	
	Compendium Net Income	14,79,83,11,112	19,29,83,11,112	21,56,83,11,112	30,03,95,42,280	7,23,63,22,180	43,24,39,33,174	41,89,98,86,885	48,87,67,27,539	48,87,67,27,539	270,000,000	270,000,000	
	FFR1	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	
	Net Change Loss for FFR1	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	33,09,73,896	
	Net Change Loss for FFR2 (in lakhs)	1,51,292.85	1,96,292.85	2,38,992.85	3,05,307.32	3,54,575.54	4,22,351.23	4,23,910.77	4,23,910.77	4,23,910.77	4,23,910.77	4,23,910.77	
	Net Change	9,95,42,500	14,94,71,517	25,79,97,092	30,99,25,042	31,01,29,297	31,01,29,297	31,01,29,297	31,01,29,297	31,01,29,297	31,01,29,297	31,01,29,297	
	Budget	3,42,84,811	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	3,46,61,567	
	Spent	6,10,54,585	8,53,27,390	7,81,99,262	7,31,08,055	13,79,18,000	1,42,84,811	3,99,27,278	3,99,27,278	3,99,27,278	3,99,27,278	3,99,27,278	
	Total	19,57,81,896	26,94,60,474	37,04,52,821	41,70,34,124	41,70,34,124	41,70,34,124	41,70,34,124	41,70,34,124	41,70,34,124	41,70,34,124	41,70,34,124	
	Financial Charges												
	Budget												
	Spent	11,077	71,104	51,765	18,35,03,219	18,36,37,242	2,05,77,856	2,05,479	2,05,479	1,01,871		81,55,00,271	
	Total FC	11,077	71,104	51,765	18,35,03,219	18,36,37,242	2,05,77,856	2,05,479	2,05,479	1,01,871		81,55,00,271	
	Interest Rate	1.89%	1.82%	1.81%	1.81%	1.82%	1.81%	1.89%	1.89%	1.44%		1.47%	

*Interest costs have to

to

Name of the Company
Name of the Power Station

Series	Description	Total FY 2019-20
61	Drawl Amount	-
	Interest Credit	8,48,09,777
	Interest Credit	-
	Adjustment Amount	-
65	Drawl Amount	9,48,09,777
	Interest Credit	89,548
	Interest Credit	-
	Adjustment Amount	-
69	Drawl Amount	4,38,28,875
	Interest Credit	-
	Interest Credit	-
	Adjustment Amount	-
72	Drawl Amount	4,38,28,875
	Interest Credit	-
	Interest Credit	-
	Adjustment Amount	-
74	Drawl Amount	3,75,00,000
	Interest Credit	14,68,96,329
	Interest Credit	-
	Adjustment Amount	-
75	Drawl Amount	14,68,96,329
	Interest Credit	3,07,421
	Interest Credit	-
	Adjustment Amount	-
76	Drawl Amount	-
	Interest Credit	-
	Interest Credit	-
	Adjustment Amount	-
78	Drawl Amount	-
	Interest Credit	-
	Interest Credit	-
	Adjustment Amount	-
A01 Series-B	Drawl Amount	28,08,20,000
	Interest Credit	25,63,151
	Interest Credit	-
	Adjustment Amount	-
A02 Series-B	Drawl Amount	25,63,151
	Interest Credit	-
	Interest Credit	-
	Adjustment Amount	-
MPS Series-Linked-B	Drawl Amount	-
	Interest Credit	1,83,85,814
	Interest Credit	-
	Adjustment Amount	-

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FCIM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Station	Description	Trm FY 2019-20
	Net Interest Charges	1,91,95,814
	Financial Charges	-
MPCL Ben Lumbani	Drawl Amount	-
	Interest Debt	9,28,19,178
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	9,28,19,178
	Financial Charges	-
MPCL Ben Lumbani	Drawl Amount	-
	Interest Debt	9,53,52,080
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	9,53,52,080
	Financial Charges	-
MPCL Ben Lumbani	Drawl Amount	30,00,00,000
	Interest Debt	3,06,15,274
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	3,06,15,274
	Financial Charges	-
MPCL Ben Lumbani	Drawl Amount	30,00,00,000
	Interest Debt	1,86,14,795
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	1,86,14,795
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
MPCL	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-

for

Name of the Company
Name of the Power Station

Series	Description	Total FY 2019-20
Term Bonds of India - VII	Drawal Amount	-
	Interest Credit	17,26,98,183
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	17,26,98,183
Term Bonds of India - II	Drawal Amount	-
	Interest Credit	13,26,67,762
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	13,26,67,762
Term Bonds of India - I	Drawal Amount	-
	Interest Credit	8,58,53,972
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	8,58,53,972
Term Bonds of India - III	Drawal Amount	-
	Interest Credit	21,81,25,408
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	21,81,25,408
Term Bonds of India - IV	Drawal Amount	-
	Interest Credit	80,00,00,000
	Interest Credit	31,43,11,120
	Adjustment Amount	-
	Financial Charges	32,43,11,120
Reserve Bonds II	Drawal Amount	-
	Interest Credit	1,26,00,00,000
	Interest Credit	1,83,40,688
	Adjustment Amount	-
	Financial Charges	1,83,40,688
1.75 % Euro Bonds 2014 II	Drawal Amount	-
	Interest Credit	7,26,03,44,800
	Interest Credit	26,19,68,208
	Withholding Tax	11,43,18,284
	Financial Charges	1,86,96,544
5.00 % Euro Bonds 2018	Drawal Amount	-
	Interest Credit	19,24,40,792
	Interest Credit	2,65,16,888
	Withholding Tax	-
	Financial Charges	17,59,23,904
1.75 % Euro Bonds 2017	Drawal Amount	-
	Interest Credit	1,60,18,842
	Interest Credit	-
	Withholding Tax	18,91,98,127
	Financial Charges	-
1.75 % Euro Bonds 2017	Drawal Amount	-
	Interest Credit	4,74,49,579
	Interest Credit	-
	Withholding Tax	27,63,828
	Financial Charges	3,65,63,908

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FORM 14 (Quarterly)

Name of the Company
Name of the Power Station

Series	Description	1996 FY 2014-25
2.23 % Debts from 2012	Drawn Amount	-
	Interest Debt	6,37,84,118
	Interest Credit	-
	Withholding Tax	28,75,142
	Adjustment Amount	-
	Net Interest Charges	6,33,75,258
271 Eqs. 2008/09-1	Drawn Amount	-
	Interest Debt	63,67,817
	Interest Credit	-
	Withholding Tax	3,57,877
	Adjustment Amount	-
	Net Interest Charges	66,25,694
271 Eqs. 2008/09-2	Drawn Amount	-
	Interest Debt	1,20,79,561
	Interest Credit	-
	Withholding Tax	6,67,068
	Adjustment Amount	-
	Net Interest Charges	1,27,46,629
271 Eqs. 2008/09-3	Drawn Amount	-
	Interest Debt	2,21,86,002
	Interest Credit	-
	Withholding Tax	19,63,245
	Adjustment Amount	-
	Net Interest Charges	2,41,49,247
271 Eqs. 2008/09-4	Drawn Amount	-
	Interest Debt	3,33,70,045
	Interest Credit	-
	Withholding Tax	19,87,732
	Adjustment Amount	-
	Net Interest Charges	3,53,57,777
271 Eqs. 2010/11-1	Drawn Amount	3,44,03,27,698
	Interest Debt	28,42,887
	Interest Credit	1,62,24,842
	Withholding Tax	2,21,468
	Adjustment Amount	(28,80,598)
	Net Interest Charges	15,12,88,023
271 Eqs. 2010/11-2	Drawn Amount	-
	Interest Debt	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
271 Eqs. 2010/11-3	Drawn Amount	-
	Interest Debt	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
271 Eqs. 2010/11-4	Drawn Amount	-
	Interest Debt	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-

for

Name of the Company
Name of the Power Station

Series	Description	Total FY 2019-20
	Including Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 1	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 11	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 12	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 13	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 14	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 15	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 16	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 17	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 18	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 19	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
AS 100.70 value 20	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-

18,38,06,65,671
2,77,26,19,632
12,44,43,226
8,78,12,968

Drawn Amount	
Interest Debit	
Interest Credit	
Withholding Tax	

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FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Series	Description	Total FY 2019-20
	Adjustment Amount	
	Net Interest Charges	2,18,55,89,114
	Financial Charges	31,20,34,759

Original	2,62,02,00,000
Budget	3,75,00,00,000
IF	9,80,06,05,673
Total Original	
Cumulative Original	

Requirement	
Over Requirement	

Cumulative Net Use	
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TDST	
Over TDST	

Net Change Leave for TDST	
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Net Change Leave for TDST (in lakhs)	
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Net charges	
Budget	1,32,81,42,873
IF	28,45,10,840
Total	57,33,21,693

Financial Charges	
Budget	4,35,847
IF	12,15,98,912
Total FC	

Interest Rate	
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*Some costs have to

for

Name of the Company
Name of the Power Station

Series	Description	01/04/20 to 30/06/20	01/07/20 to 30/09/20	01/10/20 to 31/12/20	01/01/21 to 31/03/21	01/04/21 to 30/06/21	01/07/21 to 30/09/21	01/10/21 to 31/12/21	01/01/22 to 31/03/22
61	Drated Amount								
	Interest Credit	3,35,87,892	3,36,87,223	2,30,87,223	2,31,87,845	2,65,84,411	1,54,24,427	1,54,24,427	1,55,18,630
	Adjustment Amount								
	Net Interest Changes	3,35,87,892	3,36,87,223	2,30,87,223	2,31,87,845	2,65,84,411	1,54,24,427	1,54,24,427	1,55,18,630
68	Drated Amount								
	Interest Credit	1,06,28,104	1,07,44,866	1,07,56,656	1,08,45,110	1,08,17,222	1,07,74,324	1,07,74,324	1,08,46,112
	Adjustment Amount								
	Net Interest Changes	1,06,28,104	1,07,44,866	1,07,56,656	1,08,45,110	1,08,17,222	1,07,74,324	1,07,74,324	1,08,46,112
69	Drated Amount								
	Interest Credit	6,73,45,000	6,63,34,082	6,63,36,571	6,67,82,466	6,75,24,483	6,62,66,520	6,62,66,520	6,67,82,466
	Adjustment Amount								
	Net Interest Changes	6,73,45,000	6,63,34,082	6,63,36,571	6,67,82,466	6,75,24,483	6,62,66,520	6,62,66,520	6,67,82,466
73	Drated Amount								
	Interest Credit	1,80,259	28,856	3,271	3,14,389	83,887	97,487	2,861	3,861
	Adjustment Amount								
	Net Interest Changes	1,80,259	28,856	3,271	3,14,389	83,887	97,487	2,861	3,861
74	Drated Amount								
	Interest Credit								
	Adjustment Amount								
	Net Interest Changes								
75	Drated Amount								
	Interest Credit								
	Adjustment Amount								
	Net Interest Changes								
76	Drated Amount								
	Interest Credit								
	Adjustment Amount								
	Net Interest Changes								
A05A Item-A	Drated Amount								
	Interest Credit	33,64,658	31,75,860	31,75,861	31,06,648	31,41,319	31,75,860	31,75,861	31,06,648
	Adjustment Amount								
	Net Interest Changes	33,64,658	31,75,860	31,75,861	31,06,648	31,41,319	31,75,860	31,75,861	31,06,648
A05B Item-B	Drated Amount								
	Interest Credit	1,30,00,000	80,26,575	2,06,43,288	2,01,84,521	1,26,00,000	2,06,43,288	2,06,43,287	2,01,84,521
	Adjustment Amount								
	Net Interest Changes	1,30,00,000	80,26,575	2,06,43,288	2,01,84,521	1,26,00,000	2,06,43,288	2,06,43,287	2,01,84,521
A05C Item-C	Drated Amount								
	Interest Credit								
	Adjustment Amount								
	Net Interest Changes								
A05D Item-D	Drated Amount								
	Interest Credit	42,30,821	38,11,869	37,83,658	39,21,066	38,02,218	38,84,342	38,77,828	31,28,863
	Adjustment Amount								
	Net Interest Changes	42,30,821	38,11,869	37,83,658	39,21,066	38,02,218	38,84,342	38,77,828	31,28,863

S/N	Description	2009-10		2009-11		2010-11		2011-12	
		01.04.09 to 30.06.09	01.07.09 to 30.06.10	01.07.10 to 31.03.11	01.04.11 to 31.03.11	01.04.11 to 30.09.11	01.10.11 to 31.03.11	01.04.11 to 31.03.11	01.04.11 to 31.03.11
B&B of Inds - 08	Drawn Amount								
	Interest Debit	4,09,88,322	3,86,60,572	3,77,11,383	3,68,60,754	3,73,51,848	3,76,31,737	3,76,31,737	3,76,31,737
	Interest Credit								
	Adjustment Amount								
B&B of Inds - 09	Net Interest Changes	4,09,88,322	3,86,60,572	3,77,11,383	3,68,60,754	3,73,51,848	3,76,31,737	3,76,31,737	3,76,31,737
	Financial Charges								
	Drawn Amount								
	Interest Debit	3,02,41,564	2,85,24,712	2,78,24,329	2,71,85,844	2,44,63,933	2,47,32,767	2,47,32,767	2,47,32,767
B&B of Inds - 10	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	3,02,41,564	2,85,24,712	2,78,24,329	2,71,85,844	2,44,63,933	2,47,32,767	2,47,32,767	2,47,32,767
	Financial Charges								
B&B of Inds - 11	Drawn Amount								
	Interest Debit	2,22,90,411	2,03,96,715	2,01,13,672	1,96,78,712	1,94,85,343	2,01,13,672	2,01,13,672	2,01,13,672
	Interest Credit								
	Adjustment Amount								
B&B of Inds - 12	Net Interest Changes	2,22,90,411	2,03,96,715	2,01,13,672	1,96,78,712	1,94,85,343	2,01,13,672	2,01,13,672	2,01,13,672
	Financial Charges								
	Drawn Amount								
	Interest Debit	8,82,10,342	8,52,58,727	8,43,32,329	8,31,26,452	8,38,30,890	8,43,32,329	8,43,32,329	8,43,32,329
B&B of Inds - 13	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	8,82,10,342	8,52,58,727	8,43,32,329	8,31,26,452	8,38,30,890	8,43,32,329	8,43,32,329	8,43,32,329
	Financial Charges								
B&B of Inds - 14	Drawn Amount								
	Interest Debit	7,28,09,676	6,64,38,453	6,78,84,657	6,64,08,054	6,71,46,780	6,78,84,657	6,78,84,657	6,78,84,657
	Interest Credit								
	Adjustment Amount								
B&B of Inds - 15	Net Interest Changes	7,28,09,676	6,64,38,453	6,78,84,657	6,64,08,054	6,71,46,780	6,78,84,657	6,78,84,657	6,78,84,657
	Financial Charges								
	Drawn Amount								
	Interest Debit	2,43,50,898	1,38,79,276						
B&B of Inds - 16	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	2,43,50,898	1,38,79,276						
	Financial Charges								
L.T. % Inds 2010-11	Drawn Amount								
	Interest Debit	7,64,91,681	7,31,63,329	7,30,68,582	7,15,18,330	7,52,23,010	7,52,23,010	7,52,23,010	7,52,23,010
	Interest Credit								
	Adjustment Amount								
L.T. % Inds 2011-12	Net Interest Changes	7,64,91,681	7,31,63,329	7,30,68,582	7,15,18,330	7,52,23,010	7,52,23,010	7,52,23,010	7,52,23,010
	Financial Charges								
	Drawn Amount								
	Interest Debit	4,08,51,942	4,38,10,363	4,53,92,697	4,38,02,815	4,61,58,478	4,65,02,119	4,65,02,119	4,65,02,119
L.T. % Inds 2012-13	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	4,08,51,942	4,38,10,363	4,53,92,697	4,38,02,815	4,61,58,478	4,65,02,119	4,65,02,119	4,65,02,119
	Financial Charges								
L.T. % Inds 2013-14	Drawn Amount								
	Interest Debit	26,68,777	29,37,023	25,85,454	25,28,844	26,26,239	25,89,532	26,34,059	27,77,853
	Interest Credit								
	Adjustment Amount								
L.T. % Inds 2014-15	Net Interest Changes	26,68,777	29,37,023	25,85,454	25,28,844	26,26,239	25,89,532	26,34,059	27,77,853
	Financial Charges								
	Drawn Amount								
	Interest Debit	1,30,38,052	1,39,77,240	1,49,83,501	1,48,66,560	1,36,43,517	1,25,09,343	1,30,37,463	1,29,81,547
L.T. % Inds 2015-16	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	1,30,38,052	1,39,77,240	1,49,83,501	1,48,66,560	1,36,43,517	1,25,09,343	1,30,37,463	1,29,81,547
	Financial Charges								
L.T. % Inds 2016-17	Drawn Amount								
	Interest Debit	7,79,435	7,53,626	8,24,483	7,58,585	7,53,968	7,48,355	8,95,445	7,72,268
	Interest Credit								
	Adjustment Amount								
L.T. % Inds 2017-18	Net Interest Changes	7,79,435	7,53,626	8,24,483	7,58,585	7,53,968	7,48,355	8,95,445	7,72,268
	Financial Charges								
	Drawn Amount								
	Interest Debit	1,37,81,482	1,43,31,908	1,33,73,448	1,37,13,687	1,43,87,315	1,37,24,887	1,37,13,687	1,36,13,848
L.T. % Inds 2018-19	Interest Credit								
	Adjustment Amount								
	Net Interest Changes	1,37,81,482	1,43,31,908	1,33,73,448	1,37,13,687	1,43,87,315	1,37,24,887	1,37,13,687	1,36,13,848
	Financial Charges								

Name of the Company
Name of the Power Station

Series	Description	2019-21				Total FY 2020-21	2021-22													
		01-01-20 to 01-01-20	01-01-20 to 01-01-21	01-01-21 to 01-01-21	01-01-21 to 01-01-21		01-01-21 to 01-01-22	01-01-22 to 01-01-22	01-01-22 to 01-01-22	01-01-22 to 01-01-22										
	Adjustment Account	12,812,016			12,812,016															
	Net Interest Charges	61,094,545	59,164,148	60,617,959	2,42,27,644	17,45,67,315	65,87,67,823	62,26,71,060	1,61,75,608	67,68,02,000	69,84,70,717									
	Financial Charges	4,53,15,545	4,10,09,384	5,29,37,063	3,53,10,343	17,45,67,315	2,76,82,701	1,61,75,608	3,44,33,522	3,44,33,522	3,44,33,522									
	Drawal		1,65,06,00,000	1,20,00,00,000	50,00,00,000	3,35,00,00,000	31,00,00,000	35,00,00,000	23,00,00,000	23,00,00,000	23,00,00,000									
	Stocks				97,25,00,000	97,25,00,000	2,03,00,00,000	92,00,00,000	68,00,00,000	68,00,00,000	68,00,00,000									
	IF				1,47,60,49,452	1,47,60,49,452	29,98,42,662	3,39,88,57,179	1,39,50,00,000	1,39,50,00,000	1,39,50,00,000									
	Total Drawal	1,73,55,13,071	2,38,27,38,355	2,45,59,97,059	3,93,27,38,355	7,95,02,97,887	2,94,85,49,452	2,46,88,57,179	2,01,50,00,000	2,01,50,00,000	2,01,50,00,000									
	Complimentary Drawal	50,12,57,31,622	54,05,84,59,377	57,71,44,54,386	60,64,30,29,818	60,64,30,29,818	63,10,38,44,550	65,77,15,09,679	67,78,62,09,679	67,78,62,09,679	68,01,05,49,679									
	Appropriation	275,000,000	1,30,00,00,000	355,000,000	18,44,42,609	355,000,000	39,00,00,000	412,444,260	412,444,260	412,444,260	412,444,260									
	Crn. Requirement		35,000,000		37,744,260	37,744,260	412,444,260	412,444,260	412,444,260	412,444,260	412,444,260									
	Contingencies Not Inc.																			
	FDRC	47,87,52,31,622	50,50,84,59,377	54,18,44,54,386	56,92,85,61,218	56,92,85,61,218	58,97,64,05,000	61,64,70,63,079	63,50,76,18,634	63,50,76,18,634	63,30,31,79,319									
	Crn. FDRC	2,73,65,19,559	2,73,65,19,559	2,73,65,19,559	1,81,56,56,499	1,81,56,56,499	1,72,08,63,064	1,72,08,63,064	1,72,08,63,064	1,72,08,63,064	1,72,08,63,064									
	Net Crn. Less Inc	90,61,22,40,541	53,34,49,78,596	56,90,09,75,545	58,64,94,36,303	58,64,94,36,303	60,69,92,68,964	63,36,79,36,343	65,32,84,81,099	65,32,84,81,099	64,12,71,30,885									
	Net Crn. Less Inc (FDRC In Mo)	5,06,122,41	5,32,449,79	5,69,009,76	5,86,494,26	5,86,494,26	6,06,992,69	6,33,679,26	6,52,284,82	6,52,284,82	6,41,271,31									
	Net charges	32,65,39,145	30,06,30,739	30,90,39,028	31,45,29,885	31,45,29,885	31,85,76,954	32,73,62,454	32,79,35,586	32,79,35,586	31,71,47,415									
	Budget	10,15,55,966	10,28,66,211	10,20,04,409	10,98,29,324	10,98,29,324	11,79,36,268	14,58,81,055	15,38,07,195	15,38,07,195	17,37,94,009									
	Stocks	18,28,74,399	18,21,64,220	19,47,74,497	18,00,56,343	18,00,56,343	20,21,54,602	23,94,27,331	25,70,59,219	25,70,59,219	20,75,28,327									
	Total	61,09,69,501	59,16,61,168	60,67,17,959	61,34,15,553	61,34,15,553	65,87,67,823	67,26,71,060	67,68,02,000	67,68,02,000	69,84,70,717									
	Financial Charges																			
	Budget	2,68,055	43,012	4,802	51,754	51,754	3,68,223	2,80,640	2,62,911	2,62,911	80,695									
	Stocks	4,50,41,890	4,08,68,372	5,29,37,063	3,53,10,343	3,53,10,343	2,76,82,701	1,61,75,608	3,44,33,522	3,44,33,522	3,44,33,522									
	Total FC	4,53,10,545	4,10,09,384	5,29,37,063	3,53,10,343	3,53,10,343	2,76,82,701	1,65,78,668	3,44,33,522	3,44,33,522	16,754									
	Interest Rate	3.30%	3.28%	3.18%	3.17%	3.17%	3.13%	3.09%	3.09%	3.09%	3.09%									

*These costs have to

FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Series	Description	Total FY 2017-18
61	Drawl Amount	-
	Interest Debt	6,40,28,643
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	43,294
66	Drawl Amount	-
	Interest Debt	4,37,48,202
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	29,079
69	Drawl Amount	-
	Interest Debt	27,04,40,000
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	1,84,938
73	Drawl Amount	-
	Interest Debt	8,23,31,730
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	47,208
74	Drawl Amount	2,03,00,000
	Interest Debt	12,80,30,428
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	1,94,738
75	Drawl Amount	-
	Interest Debt	82,00,00,000
	Interest Credit	3,89,84,834
	Adjustment Amount	-
	Financial Charges	94,324
76	Drawl Amount	-
	Interest Debt	68,00,00,000
	Interest Credit	83,77,808
	Adjustment Amount	-
	Financial Charges	83,77,808
78	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	-
A03 Series A	Drawl Amount	-
	Interest Debt	1,28,00,000
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	-
A03 Series B	Drawl Amount	-
	Interest Debt	8,19,00,000
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	-
M03 Series Limited B	Drawl Amount	-
	Interest Debt	1,37,87,882
	Interest Credit	-
	Adjustment Amount	-
	Financial Charges	-

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FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Serial	Description	Total FY 2021-22
	Net Interest Charges	1,27,87,090
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	8,11,55,482
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	8,11,55,482
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	7,62,10,500
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	7,62,10,500
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	4,28,40,000
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	4,28,40,000
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	4,79,00,000
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	4,79,00,000
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	9,22,25,817
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	9,22,25,817
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	23,20,00,000
	Interest Credit	4,04,187
	Adjustment Amount	-
	Net Interest Charges	4,04,187
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
	Drawl Amount	-
	Interest Debt	48,00,00,000
	Interest Credit	1,84,89,233
	Adjustment Amount	-
	Net Interest Charges	1,84,89,233
	Financial Charges	-

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FORM - 14 (Quarterly)
 Name of the Company
 Name of the Power Station

Series	Description	Total FY 2014-15
Term Bank of India - 18	Drawn Amount	-
	Interest Debit	14,60,37,467
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	14,60,37,467
Term Bank of India - 18	Drawn Amount	-
	Interest Debit	9,79,24,003
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	9,79,24,003
Term Bank of India - 8	Drawn Amount	-
	Interest Debit	7,88,00,000
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	7,88,00,000
Term Bank of India - 12	Drawn Amount	-
	Interest Debit	29,60,25,000
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	29,60,25,000
Term Bank of India - 18	Drawn Amount	-
	Interest Debit	26,83,25,000
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	26,83,25,000
Hydrobank	Drawn Amount	-
	Interest Debit	-
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	-
3.75 % Term Bank 2014-15	Drawn Amount	0
	Interest Debit	20,12,89,859
	Interest Credit	-
	Working Fee	3,72,47,207
	Adjustment Amount	-
3.25 % Term Bank 2014-15	Drawn Amount	-
	Interest Debit	21,68,37,198
	Interest Credit	-
	Adjustment Amount	-
	Net Interest Charges	21,68,37,198
3.25 % Term Bank 2014-15	Drawn Amount	-
	Interest Debit	18,90,26,317
	Interest Credit	-
	Working Fee	1,08,27,923
	Adjustment Amount	-
3.75 % Term Bank 2017	Drawn Amount	-
	Interest Debit	8,22,70,829
	Interest Credit	-
	Working Fee	28,29,187
	Adjustment Amount	-
3.75 % Term Bank 2017	Drawn Amount	-
	Interest Debit	6,31,48,082
	Interest Credit	-
	Working Fee	-
	Adjustment Amount	-

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Name of the Company
Name of the Power Station

Series	Description	Total FY 2021-22
275 % Hydro 202	Drawn Amount	-
	Interest Debit	6,467,960
	Interest Credit	-
	Withholding Tax	28,964,494
	Adjustment Amount	-
	Financial Charges	6,793,844,428
275 % Hydro 4	Drawn Amount	-
	Interest Debit	58,844,006
	Interest Credit	-
	Withholding Tax	3,381,968
	Adjustment Amount	-
	Financial Charges	63,226,042
275 % Hydro 8	Drawn Amount	-
	Interest Debit	1,548,528
	Interest Credit	-
	Withholding Tax	8,481,110
	Adjustment Amount	-
	Financial Charges	1,213,265
275 % Hydro 4	Drawn Amount	-
	Interest Debit	3,131,194
	Interest Credit	-
	Withholding Tax	12,221,608
	Adjustment Amount	-
	Financial Charges	3,274,448
275 % Hydro 8	Drawn Amount	-
	Interest Debit	3,231,912
	Interest Credit	-
	Withholding Tax	18,246,018
	Adjustment Amount	-
	Financial Charges	3,411,884
275 % Hydro 1	Drawn Amount	-
	Interest Debit	3,211,662
	Interest Credit	-
	Withholding Tax	95,413,347
	Adjustment Amount	-
	Financial Charges	3,231,912
275 % Hydro 5	Drawn Amount	-
	Interest Debit	1,423,517
	Interest Credit	-
	Withholding Tax	4,803,323
	Adjustment Amount	-
	Financial Charges	1,468,842
275 % Hydro 22	Drawn Amount	-
	Interest Debit	1,272,150
	Interest Credit	-
	Withholding Tax	4,115,541
	Adjustment Amount	-
	Financial Charges	1,213,265
275 % Hydro 17	Drawn Amount	-
	Interest Debit	80,172,801
	Interest Credit	-

FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

Source	Description	Total FY 2021-22
	Withholding Tax	2,38,207
	Adjustment Amount	-
	Net Interest Charges	63,76,836
	Financial Charges	-
Int. Exp. 2% Below	Drawal Amount	-
	Interest Debit	83,37,713
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	83,37,713
	Financial Charges	-
Int. Exp. 2% Below II	Drawal Amount	-
	Interest Debit	1,08,87,779
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	1,08,87,779
	Financial Charges	-
Run User I Draw I	Drawal Amount	1,08,82,89,840
	Interest Debit	79,65,473
	Interest Credit	32,13,722
	Withholding Tax	1,35,137
	Adjustment Amount	-
	Net Interest Charges	48,96,908
	Financial Charges	2,74,82,861
Run User I Draw II	Drawal Amount	63,82,09,000
	Interest Debit	28,24,115
	Interest Credit	9,22,369
	Withholding Tax	65,015
	Adjustment Amount	-
	Net Interest Charges	29,76,756
	Financial Charges	1,63,13,877
Run User I Draw III	Drawal Amount	1,31,85,00,000
	Interest Debit	66,89,987
	Interest Credit	72,82,784
	Withholding Tax	1,13,118
	Adjustment Amount	-
	Net Interest Charges	14,67,679
	Financial Charges	3,43,82,827
Int. Exp. 2% Below Draw I	Drawal Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
Int. Exp. 2% Below Draw II	Drawal Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-
Int. Exp. 2% Below Draw III	Drawal Amount	-
	Interest Debit	-
	Interest Credit	-
	Withholding Tax	-
	Adjustment Amount	-
	Net Interest Charges	-
	Financial Charges	-

Drawal Amount	7,33,34,99,840
Interest Debit	2,67,71,41,878
Interest Credit	1,34,18,865
Withholding Tax	4,09,88,588

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FORM - 14 (Quarterly)
 Name of the Company
 Name of the Power Station

Service	Description	Total FY 2014-20
	Adjusted Amount	
	Net Interest Charges	2,70,67,11,600
	Financial Charges	7,87,58,585

Direct	
Budget	68,00,00,000
Surplus	3,81,00,00,000
#	3,01,94,99,840
Total Direct	
Capitalized Direct	

Replacement	
Own Replacement	

Contaminants Not Used	
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DIRTY	
COM DIRTY	

Net Change Less In	
DIRTY	

Net Change Less In	
DIRTY (in lakhs)	

Net Change	
Budget	1,28,10,32,479
Surplus	60,94,13,423
#	86,82,69,748
Total	

Financial Charges	
Budget	6,41,629
Surplus	7,80,67,585
#	
Total FC	

Interest Rate	
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2458604.517

*None cash here for

Name of the Company
Name of the Power Station

Series	Description	2022-23				Total FY 2022-23
		01.04.22 to 30.06.22	01.07.22 to 30.09.22	01.10.22 to 31.12.22	01.01.23 to 31.03.23	
81	Drad Amount					
	Interest Debt	1,57,81,276	1,19,24,822			3,18,79,644
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	1,57,81,276	1,19,24,822	-	-	3,18,79,644
86	Drad Amount	34,215	66			34,281
	Interest Debt	1,08,87,222	1,07,74,334			2,14,31,256
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	1,08,87,222	1,07,74,334	-	-	2,14,31,256
89	Drad Amount	24,952	8			24,960
	Interest Debt	6,75,24,072	6,67,66,520			13,87,89,914
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	6,75,24,072	6,67,66,520	-	-	13,87,89,914
93	Drad Amount	1,58,80,108	1,17,61,407			3,13,91,525
	Interest Debt	-	-	-	-	-
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	1,58,80,108	1,17,61,407	-	-	3,13,91,525
94	Drad Amount	38,362	42			38,404
	Interest Debt	3,47,69,728	3,51,51,814			7,09,34,542
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	3,47,69,728	3,51,51,814	-	-	7,09,34,542
95	Drad Amount	1,53,44,844	1,93,13,469			3,46,58,312
	Interest Debt	-	-	-	-	-
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	1,53,44,844	1,93,13,469	-	-	3,46,58,312
96	Drad Amount	37,229	31			37,260
	Interest Debt	1,93,28,196	1,93,53,125			3,86,81,321
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	1,93,28,196	1,93,53,125	-	-	3,86,81,321
98	Drad Amount	31,291	2,254			33,545
	Interest Debt	66,79,00,000	22,74,255			68,79,00,000
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	66,79,00,000	22,74,255	-	-	68,79,00,000
A03 Series-A	Drad Amount					
	Interest Debt	32,24,109	37,22,742			69,46,849
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	32,24,109	37,22,742	-	-	69,46,849
A03 Series-B	Drad Amount					
	Interest Debt	2,42,88,042				2,42,88,042
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	2,42,88,042	-	-	-	2,42,88,042
A04 Series Limited	Drad Amount					
	Interest Debt	37,84,471				37,84,471
	Interest Credit	-	-	-	-	-
	Adjustment Amount	-	-	-	-	-
	Net Interest Charges	37,84,471	-	-	-	37,84,471

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F00M - 14 (Quarterly)
 Name of the Company
 Name of the Power Station

Service	Description	Amount in \$			
		01/01/22 to 03/31/22	04/01/22 to 06/30/22	07/01/22 to 09/30/22	10/01/22 to 12/31/22
	Net Interest Charges	37,739,934	91,627,292	39,769,222	91,451,233
	Financial Charges		27,844,411		
	Total FY 2022 Q3				70,943,345
EDF Best Lender/1	Draw Amount				
	Interest Credit	1,421,581,932	1,510,068,828		
	Adjustment Amount				3,061,681,761
	Net Interest Charges	1,421,581,932	1,510,068,828		
	Financial Charges				3,061,681,761
EDF Best Lender/2	Draw Amount				
	Interest Credit	1,811,081,662	2,029,671,825		
	Adjustment Amount				3,961,981,721
	Net Interest Charges	1,811,081,662	2,029,671,825		
	Financial Charges				3,961,981,721
EDF Best Lender/3	Draw Amount	1,101,491,526			
	Interest Debt		1,281,061,127		
	Interest Credit				2,381,551,671
	Adjustment Amount				
	Net Interest Charges	1,101,491,526	1,281,061,127		
	Financial Charges				2,381,551,671
EDF Best Lender/4	Draw Amount	1,221,771,262			
	Interest Debt		1,421,251,641		
	Interest Credit				2,643,022,903
	Adjustment Amount				
	Net Interest Charges	1,221,771,262	1,421,251,641		
	Financial Charges				2,643,022,903
EDF/5	Draw Amount	2,371,671,192			
	Interest Debt		2,751,681,782		
	Interest Credit				5,123,353,974
	Adjustment Amount				
	Net Interest Charges	2,371,671,192	2,751,681,782		
	Financial Charges				5,123,353,974
EDF/6	Draw Amount	881,001,000			
	Interest Debt		1,851,651,981		
	Interest Credit	1,221,261,646			881,001,000
	Adjustment Amount				2,081,241,607
	Net Interest Charges	1,221,261,646	1,851,651,981		
	Financial Charges				2,081,241,607
EDF/8	Draw Amount				
	Interest Debt				
	Interest Credit				
	Adjustment Amount				
	Net Interest Charges				
	Financial Charges				
EDF/9	Draw Amount				
	Interest Debt				
	Interest Credit				
	Adjustment Amount				
	Net Interest Charges				
	Financial Charges				
Final	Draw Amount				
	Interest Debt	67,651,152	79,571,369		
	Interest Credit				1,471,221,621
	Adjustment Amount				
	Net Interest Charges	67,651,152	79,571,369		
	Financial Charges				1,471,221,621

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Name of the Company
Name of the Power Station

Series	Description	Amount in Rs.			
		01.07.22 to 30.09.22	01.10.22 to 31.12.22	01.01.23 to 31.03.23	Total FY 2022-23
Term Bank of India - 10	Drawn Amount	81,64,22	30,08,22	-	1,11,72,44
	Interest Credit	3,24,20,138	3,50,78,600	-	6,75,08,738
	Adjustment Amount	-	-	-	-
	Net Interest Charges	3,24,20,138	3,50,78,600	-	6,75,08,738
	Financial Charges	-	-	-	-
Term Bank of India - 10	Drawn Amount	-	-	-	-
	Interest Credit	3,13,73,706	2,26,43,729	-	5,40,17,435
	Adjustment Amount	-	-	-	-
	Net Interest Charges	3,13,73,706	2,26,43,729	-	5,40,17,435
	Financial Charges	-	-	-	-
Term Bank of India - 10	Drawn Amount	1,90,74,248	2,13,83,913	-	4,04,58,161
	Interest Credit	-	-	-	-
	Adjustment Amount	-	-	-	-
	Net Interest Charges	1,90,74,248	2,13,83,913	-	4,04,58,161
	Financial Charges	-	-	-	-
Term Bank of India - 10	Drawn Amount	6,38,30,890	8,78,92,095	-	15,17,22,985
	Interest Credit	-	-	-	-
	Adjustment Amount	-	-	-	-
	Net Interest Charges	6,38,30,890	8,78,92,095	-	15,17,22,985
	Financial Charges	-	-	-	-
Term Bank of India - 10	Drawn Amount	6,71,48,790	7,93,24,118	-	14,64,72,908
	Interest Credit	-	-	-	-
	Adjustment Amount	-	-	-	-
	Net Interest Charges	6,71,48,790	7,93,24,118	-	14,64,72,908
	Financial Charges	-	-	-	-
Spectrum Bank Pl	Drawn Amount	-	-	-	-
	Interest Credit	-	-	-	-
	Adjustment Amount	-	-	-	-
	Net Interest Charges	-	-	-	-
	Financial Charges	-	-	-	-
0.75 % Term Bank 2021-2	Drawn Amount	-	-	-	-
	Interest Credit	7,68,85,301	8,47,41,827	-	16,16,27,128
	Adjustment Amount	-	-	-	-
	Net Interest Charges	7,68,85,301	8,47,41,827	-	16,16,27,128
	Financial Charges	-	-	-	-
0.75 % Term Bank 2018	Drawn Amount	4,92,22,857	4,97,98,153	-	9,90,21,010
	Interest Credit	-	-	-	-
	Adjustment Amount	27,81,389	28,52,877	-	56,34,266
	Net Interest Charges	5,20,04,246	5,26,51,030	-	10,46,55,276
	Financial Charges	-	-	-	-
0.75 % Term Bank 2027	Drawn Amount	-	-	-	-
	Interest Credit	1,23,14,954	1,05,28,845	-	2,28,43,799
	Adjustment Amount	-	-	-	-
	Net Interest Charges	1,23,14,954	1,05,28,845	-	2,28,43,799
	Financial Charges	-	-	-	-

Handwritten signature or initials.

FORM - 14 (Quarterly)

Name of the Company
Name of the Power Station

(Amount in Bt.)

2023-23

Series	Description	01.07.22 to 30.09.22	01.10.22 to 31.12.22	01.01.23 to 31.03.23	Total FY 2022-23
23 % Heads Incr 702	Drawal Amount	51,64,22	-	-	51,64,22
	Interest Debit	56,97,477	-	-	56,97,477
	Interest Credit	-	-	-	-
	Withholding Tax	3,28,043	-	-	3,28,043
	Adjustment Amount	-	-	-	-
PT Dis. 20% Hdrn 1	Net Interest Charges	86,23,565	-	-	86,23,565
	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
	Interest Debit	12,09,697	19,67,531	-	31,77,229
	Interest Credit	-	-	-	-
PT Dis. 20% Hdrn 2	Withholding Tax	79,733	34,759	-	1,14,492
	Adjustment Amount	-	-	-	-
	Net Interest Charges	13,44,930	13,82,291	-	27,27,221
	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
PT Dis. 20% Hdrn 3	Interest Debit	24,36,932	25,09,347	-	49,46,279
	Interest Credit	-	-	-	-
	Withholding Tax	1,44,394	1,43,006	-	2,87,400
	Adjustment Amount	-	-	-	-
	Net Interest Charges	25,81,326	26,52,353	-	52,33,679
PT Dis. 20% Hdrn 4	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
	Interest Debit	48,50,329	48,79,548	-	97,29,877
	Interest Credit	-	-	-	-
	Withholding Tax	3,71,205	3,67,917	-	7,39,122
PT Dis. 20% Hdrn 5	Adjustment Amount	-	-	-	-
	Net Interest Charges	48,71,529	49,46,966	-	98,18,495
	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
	Interest Debit	69,90,811	70,34,796	-	1,40,25,607
PT Dis. 20% Hdrn 6	Interest Credit	-	-	-	-
	Withholding Tax	4,67,684	4,61,877	-	9,29,561
	Adjustment Amount	-	-	-	-
	Net Interest Charges	73,58,495	74,96,673	-	1,48,55,168
	Financial Charges	-	-	-	-
PT Dis. 20% Hdrn 7	Drawal Amount	-	-	-	-
	Interest Debit	68,82,111	70,04,536	-	1,38,86,647
	Interest Credit	-	-	-	-
	Withholding Tax	3,28,158	3,27,612	-	6,55,770
	Adjustment Amount	-	-	-	-
PT Dis. 20% Hdrn 8	Net Interest Charges	72,10,269	73,32,148	-	1,45,42,417
	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
	Interest Debit	30,33,671	30,97,538	-	61,31,209
	Interest Credit	-	-	-	-
PT Dis. 20% Hdrn 9	Withholding Tax	1,01,073	1,00,654	-	2,01,727
	Adjustment Amount	-	-	-	-
	Net Interest Charges	31,34,744	31,96,892	-	63,31,636
	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
PT Dis. 20% Hdrn 10	Interest Debit	27,91,923	27,68,200	-	55,60,123
	Interest Credit	-	-	-	-
	Withholding Tax	86,327	89,922	-	1,76,249
	Adjustment Amount	-	-	-	-
	Net Interest Charges	28,01,452	28,58,122	-	56,59,574
PT Dis. 20% Hdrn 11	Financial Charges	-	-	-	-
	Drawal Amount	-	-	-	-
	Interest Debit	17,08,673	17,44,543	-	34,53,216
	Interest Credit	-	-	-	-
	Withholding Tax	-	-	-	-

Net

Qtr Ended on	Expn. During Qtr	Expn. Up to the end of Qtr	Debt Applied (Over Borrow and Bonds)	Repayments of Debt & Bonds	Cumulative Debt Applied (Over & Bonds)	Debt Applied (ECB)	Repayments of ECB	EDV	Cumulative Debt Applied (ECB)	Cumulative Debt Applied (Total)	Debt Equity Ratio	Interest Rate %	Net/Total DDC	Cumulative Net/Total DDC	Cumulative Debt Applied (Over & Bonds)	Cumulative Debt Applied (ECB)	Cumulative Debt Applied (Total)
2014-Q1	171.00	171.00	137.00	-	137.00	-	-	-	-	137.00	80.30	0.46%	-	-	171.00	137.00	308.00
2014-Q2	348.00	519.00	243.00	342.00	342.00	-	4.15	-	342.00	684.00	74.28	0.75%	-	-	519.00	243.00	762.00
2014-Q3	42.00	561.00	58.00	440.00	498.00	58.00	-	-	498.00	1182.00	74.28	1.64%	-	-	561.00	301.00	862.00
2014-Q4	252.00	813.00	148.00	442.00	940.00	148.00	-	-	940.00	1522.00	80.20	1.75%	-	-	813.00	349.00	1162.00
2015-Q1	153.00	966.00	18.00	498.00	1058.00	18.00	-	-	1058.00	1628.00	69.31	1.68%	-	-	966.00	367.00	1335.00
2015-Q2	153.00	1119.00	42.00	651.00	1100.00	42.00	-	-	1100.00	1738.00	77.23	1.41%	0.11	0.11	1119.00	409.00	1528.00
2015-Q3	680.25	1800.25	250.00	901.00	1251.00	250.00	-	-	1251.00	2000.00	74.28	2.01%	0.11	0.22	1800.25	659.00	2459.25
2015-Q4	217.25	2017.50	75.00	1076.00	1326.00	75.00	-	-	1326.00	2163.00	77.23	2.01%	0.11	0.33	2017.50	734.00	2801.50
2016-Q1	437.74	2455.24	348.00	1424.00	1674.00	348.00	-	-	1674.00	2337.00	74.28	1.41%	0.11	0.44	2455.24	883.00	3338.24
2016-Q2	130.32	2585.56	407.00	1574.00	1831.00	407.00	-	-	1831.00	2520.00	77.23	1.29%	0.11	0.55	2585.56	1012.00	3597.56
2016-Q3	440.87	3026.43	303.00	1777.00	2034.00	303.00	-	-	2034.00	2723.00	74.28	1.29%	0.11	0.66	3026.43	1141.00	4167.43
2016-Q4	548.91	3575.34	80.00	1963.00	2124.00	80.00	-	-	2124.00	2915.00	77.23	1.29%	0.11	0.77	3575.34	1270.00	4805.34
2017-Q1	318.41	3893.75	372.00	2045.00	2297.00	372.00	-	-	2297.00	3187.00	74.28	1.05%	0.11	0.88	3893.75	1400.00	5293.75
2017-Q2	677.95	4571.70	180.00	2225.00	2477.00	180.00	-	-	2477.00	3434.00	77.23	1.05%	0.11	0.99	4571.70	1530.00	6003.70
2017-Q3	259.73	4831.43	180.00	2405.00	2657.00	180.00	-	-	2657.00	3700.00	74.28	1.41%	0.11	1.10	4831.43	1660.00	6361.43
2017-Q4	361.38	5192.81	165.00	2570.00	2822.00	165.00	-	-	2822.00	3982.00	77.23	1.41%	0.11	1.21	5192.81	1790.00	6772.81
2018-Q1	348.00	5540.81	147.25	2717.00	2969.00	147.25	-	-	2969.00	4279.00	74.28	1.39%	0.11	1.32	5540.81	1920.00	7199.81
2018-Q2	350.25	5891.06	214.00	2931.00	3183.00	214.00	-	-	3183.00	4593.00	77.23	1.39%	0.11	1.43	5891.06	2050.00	7643.06
2018-Q3	251.41	6142.47	177.00	3108.00	3360.00	177.00	-	-	3360.00	4930.00	74.28	1.39%	0.11	1.54	6142.47	2180.00	8122.47
2018-Q4	253.07	6395.54	68.00	3276.00	3428.00	68.00	-	-	3428.00	5278.00	77.23	1.39%	0.11	1.65	6395.54	2310.00	8588.54
2019-Q1	118.61	6514.15	22.00	3458.00	3480.00	22.00	-	-	3480.00	5626.00	74.28	1.09%	0.11	1.76	6514.15	2440.00	9026.15
2019-Q2	37.49	6551.64	88.00	3546.00	3534.00	88.00	-	-	3534.00	5980.00	77.23	1.09%	0.11	1.87	6551.64	2570.00	9281.64
2019-Q3	214.28	6765.92	88.00	3634.00	3622.00	88.00	-	-	3622.00	6342.00	74.28	1.09%	0.11	1.98	6765.92	2700.00	9551.92
2019-Q4	813.48	7579.40	167.78	3801.00	3733.00	167.78	-	-	3733.00	6715.00	69.31	1.09%	0.11	2.09	7579.40	2830.00	9945.40
2020-Q1	214.28	7793.68	167.78	3968.00	3900.00	167.78	-	-	3900.00	7105.00	69.31	1.09%	0.11	2.20	7793.68	2960.00	10305.68
2020-Q2	813.48	8607.16	167.78	4135.00	4067.00	167.78	-	-	4067.00	7500.00	69.31	1.09%	0.11	2.31	8607.16	3090.00	10665.16
2020-Q3	214.28	8821.44	167.78	4302.00	4234.00	167.78	-	-	4234.00	7900.00	69.31	1.09%	0.11	2.42	8821.44	3220.00	11025.44
2020-Q4	813.48	9634.92	167.78	4470.00	4402.00	167.78	-	-	4402.00	8300.00	69.31	1.09%	0.11	2.53	9634.92	3350.00	11385.92
2021-Q1	214.28	9849.20	167.78	4637.00	4570.00	167.78	-	-	4570.00	8700.00	69.31	1.09%	0.11	2.64	9849.20	3480.00	11746.20
2021-Q2	813.48	10662.68	167.78	4805.00	4738.00	167.78	-	-	4738.00	9100.00	69.31	1.09%	0.11	2.75	10662.68	3610.00	12106.68
2021-Q3	214.28	10876.96	167.78	4973.00	4906.00	167.78	-	-	4906.00	9500.00	69.31	1.09%	0.11	2.86	10876.96	3740.00	12467.96
2021-Q4	813.48	11690.44	167.78	5141.00	5074.00	167.78	-	-	5074.00	9900.00	69.31	1.09%	0.11	2.97	11690.44	3870.00	12828.44
2022-Q1	214.28	11904.72	167.78	5309.00	5242.00	167.78	-	-	5242.00	10300.00	69.31	1.09%	0.11	3.08	11904.72	4000.00	13188.72
2022-Q2	813.48	12718.20	167.78	5477.00	5410.00	167.78	-	-	5410.00	10700.00	69.31	1.09%	0.11	3.19	12718.20	4130.00	13549.20
2022-Q3	214.28	12932.48	167.78	5645.00	5578.00	167.78	-	-	5578.00	11100.00	69.31	1.09%	0.11	3.30	12932.48	4260.00	13909.48
2022-Q4	813.48	13745.96	167.78	5813.00	5746.00	167.78	-	-	5746.00	11500.00	69.31	1.09%	0.11	3.41	13745.96	4390.00	14269.96
2023-Q1	214.28	13960.24	167.78	5981.00	5914.00	167.78	-	-	5914.00	11900.00	69.31	1.09%	0.11	3.52	13960.24	4520.00	14630.24
2023-Q2	813.48	14773.72	167.78	6149.00	6082.00	167.78	-	-	6082.00	12300.00	69.31	1.09%	0.11	3.63	14773.72	4650.00	14990.72
2023-Q3	214.28	14988.00	167.78	6317.00	6250.00	167.78	-	-	6250.00	12700.00	69.31	1.09%	0.11	3.74	14988.00	4780.00	15351.00
2023-Q4	813.48	15801.48	167.78	6485.00	6418.00	167.78	-	-	6418.00	13100.00	69.31	1.09%	0.11	3.85	15801.48	4910.00	15711.48
2024-Q1	214.28	16015.76	167.78	6653.00	6586.00	167.78	-	-	6586.00	13500.00	69.31	1.09%	0.11	3.96	16015.76	5040.00	16071.76
2024-Q2	813.48	16829.24	167.78	6821.00	6754.00	167.78	-	-	6754.00	13900.00	69.31	1.09%	0.11	4.07	16829.24	5170.00	16432.24
2024-Q3	214.28	17043.52	167.78	6989.00	6922.00	167.78	-	-	6922.00	14300.00	69.31	1.09%	0.11	4.18	17043.52	5300.00	16792.52
2024-Q4	813.48	17857.00	167.78	7157.00	7090.00	167.78	-	-	7090.00	14700.00	69.31	1.09%	0.11	4.29	17857.00	5430.00	17153.00
2025-Q1	214.28	18071.28	167.78	7325.00	7258.00	167.78	-	-	7258.00	15100.00	69.31	1.09%	0.11	4.40	18071.28	5560.00	17513.28
2025-Q2	813.48	18884.76	167.78	7493.00	7426.00	167.78	-	-	7426.00	15500.00	69.31	1.09%	0.11	4.51	18884.76	5690.00	17873.76
2025-Q3	214.28	19099.04	167.78	7661.00	7594.00	167.78	-	-	7594.00	15900.00	69.31	1.09%	0.11	4.62	19099.04	5820.00	18234.04
2025-Q4	813.48	19912.52	167.78	7829.00	7762.00	167.78	-	-	7762.00	16300.00	69.31	1.09%	0.11	4.73	19912.52	5950.00	18594.52
2026-Q1	214.28	20126.80	167.78	7997.00	7930.00	167.78	-	-	7930.00	16700.00	69.31	1.09%	0.11	4.84	20126.80	6080.00	18955.00
2026-Q2	813.48	20940.28	167.78	8165.00	8098.00	167.78	-	-	8098.00	17100.00	69.31	1.09%	0.11	4.95	20940.28	6210.00	19315.28
2026-Q3	214.28	21154.56	167.78	8333.00	8266.00	167.78	-	-	8266.00	17500.00	69.31	1.09%	0.11	5.06	21154.56	6340.00	19675.56
2026-Q4	813.48	21968.04	167.78	8501.00	8434.00	167.78	-	-	8434.00	17900.00	69.31	1.09%	0.11	5.17	21968.04	6470.00	20036.04
2027-Q1	214.28	22182.32	167.78	8669.00	8602.00	167.78	-	-	8602.00	18300.00	69.31	1.09%	0.11	5.28	22182.32	6600.00	20396.32
2027-Q2	813.48	23000.00	167.78	8837.00	8770.00	167.78	-	-	8770.00	18700.00	69.31	1.09%	0.11	5.39	23000.00	6730.00	20756.70
2027-Q3	214.28	23214.28	167.78	9005.00	8938.00	167.78	-	-	8938.00	19100.00	69.31	1.09%	0.11	5.50	23214.28	6860.00	21117.28
2027-Q4	813.48	24027.76	167.78	9173.00	9106.00	167.78	-	-	9106.00	19500.00	69.31	1.09%	0.11	5.61	24027.76	6990.00	21477.76
2028-Q1	214.28	24242.04	167.78	9341.00	9274.00	167.78	-	-	9274.00	19900.00	69.31	1.09%	0.11	5.72	24242.04	7120.00	21838.04
2028-Q2	813.48	25055.52	167.78	9509.00	9442.00	167.78	-	-	9442.00	20300.00	69.31	1.09%	0.11	5.83	25055.52	7250.00	22198.52
2028-Q3	214.28	25269.80	167.78	9677.00	9610.00	167.78	-	-	9610.00	20700.00	69.31	1.09%	0.11	5.94	25269.80	7380.00	22559.00
2028-Q4	813.48	26083.28	167.78	9845.00	9778.00	167.78	-	-	9778.00	21100.00	69.31	1.09%	0.11	6.05	26083.28	7510.00	22919.28
2029-Q1	214.28	26297.56	167.78	10013.00	9946.00	167.78	-	-	9946.00	21500.00	69.31	1.09%	0.11	6.16	26297.56	7640.00	23279.56
2029-Q2	813.48	27111.04	167.78	10181.00	10114.00	167.78	-	-	10114.00	21900.00	69.31	1.09%	0.11	6.27	27111.04	7770.00	23640.04
2029-Q3	214.28	27325.32	167.78	10349.00	10282.00	167.78	-										

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Projects

Name of the Petitioner			
Name of the Generating Station		NTPC Limited Telangana Super Thermal Power Project Stage-I	
Board of Director/ Agency approving the Capital cost estimates		NTPC Board of Directors	
Date of approval of the Capital cost estimates:		29-Jan-2016	
Price level of approved estimates	Present Day Cost	Completed Cost	
	As on end of IV Qtr. of the year 2015	As on Scheduled COD of the Station	
Foreign Exchange rate considered for the Capital cost estimates			
Capital Cost excluding IDC & FC			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. Crs)			
Capital cost excluding IDC, FC, FERV & Hedging Cost (Rs. Cr)		9123.94	10167.70
IDC, FC, FERV & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. Crs)			
Total IDC, FC, FERV & Hedging Cost (Rs. Crs)		1475.04	1643.56
Rate of taxes & duties considered			
Capital cost Including IDC, FC, FERV & Hedging Cost (excluding WCM)			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. Crs)			
Capital cost Including IDC & FC (Rs. Crs)		10598.98	11811.26
Cost including FGD		10997.74	12210.02
Schedule of Commissioning			
Scheduled COD of Unit-I as per Investment Approval		29-05-2020	
Scheduled COD of Unit-II as per Investment Approval		29-11-2020	
Note:			

(Petitioner)

Sl. No. (1)	BreakUP	As per Original Estimate as per Investment Approval (For 1 Unit)	Actual Capital Expenditure as per Undisputed COD for Unit#1 31.03.2023 (Cash Basis)	Liabilities/ Provisions Unit#1 (Not included in col 4)	Actual Capital Expenditure as per Undisputed COD for Unit#1 31.03.2023 (Gross Block)	Actual Capital Expenditure as per Undisputed COD Amount (Cash Basis) Unit#1 + (Unit#2 - Apr & May) + FCI - COD	Liabilities/ Provisions Unit#2 (Not included in col 7)	Actual Capital Expenditure as per Undisputed COD Amount (Gross Block)	Variance
4.3	502-Solar works		-0.24	0.24	0.00	28.29	3.24	31.53	
4.4	TC-Solar works		518.10	43.90	562.00	518.10	43.90	562.00	
4.5	BDP-Solar works		0.88	-0.98	0.00	173.51	41.21	214.72	
5	Compressor & Substation	1,253,544	297.92	5.37	303.29	297.92	5.37	303.29	
5.1	Compressor facilities	2,608,244	250.77	10.72	270.49	250.77	10.72	270.49	
5.2	Substation	3,168.90	4,604.92	78.37	4,673.34	4,604.92	78.37	4,673.34	
6	Total Plant & Machinery including Taxes & Duties	9,71,456.84	18,105.91	1647.09	19,753.00	18,105.91	1647.09	19,753.00	
7	Other Items	included	5,02,240.84	59,314.22	5,61,555.06	21,118.02	118.96	5,82,673.04	779.26
8	Contingency	included	14014.54	2350.81	16365.35	7,68,088.15	2127.11	8,39,875.41	-2,871.65
9	Project Management / IDC*	2,329.00	2,518.91	9.67	2,528.60	1534.54	2500.81	4,025.35	-19,876.41
10	Pre commissioning	35,530.20	4,000.00		25,18.91	25,18.91	9.67	25,285.60	97,621.48
11	Total Capital Cost including IDC & FC	9,409.30	31,512.17		4,000.00	6,204.00		6,204.00	-1,25,190.82
11.1	FC, FC, FERV, Hedging Cost & WCM	10,28,071.44	5,93,555.62	61,893.58	3,152.27	58,42.48	500.00	63,94.00	
11.2	Financing Charges (FC)				6,55,449.20	9,09,896.14	500.00	9,09,896.14	
11.3	Foreign Exchange Rate Variation (FERV)	1,64,316.00	81,264.08		81,264.08	13,9225.21		10,19,454.75	6,618.70
11.4	Hedging Cost		19,07.48		19,07.48			19,07.48	
11.5	Working Capital Margin	28,523.00	1,00,371.56		1,00,371.56	29,752.19		29,752.19	
	Capital cost including IDC, FC, FERV, Hedging Cost & WCM	12,21,200.44	6,94,127.17	61,893.58	7,56,020.75	10,64,879.58	98,320.42	11,63,200.00	48,568.28

Note: The indicative estimated completion cost is Rs 11891.28 crores as per investment approval. FCI cost has been added as Rs 298.76 crores, resulting in Rs 1219 crores

Break-up of Construction/Supply/Service packages
Name of the Preliminary: NTPC LTD
Name of the Generating Station: Tehriangam STPP (1400 MW)

Extn-D
Rs. Lakhs

1	Name/No. of Construction / Supply / Service Package	Stream Generator Island Package	Stream Turbine Island Generator Package	BOF Island Package	FGD Package	Ash By-Product Package	Turnship Package	Lead Incl B&B, Other site building / Site Packages/Temp. Construction, Tally Workshop & Lab Equipment & Pre-Commissioning	See Total
2	Scope of work (in line with head of cost breakdowns as applicable)	S-E-C	S-E-C	S-E-C	S-E-C	C			
3	Whether awarded through IC/B/DCM (Department)/ Design Work	ICB	ICB	ICB	DCB	DCB			
4	No. of bids received								
5	Date of Award	5-Feb-16	5-Feb-16	16-Jun-17	4-Jun-18	28.03.2018	09.08.2018		
6	Date of Start of work								
7	Date of Completion of Work/Expected date of completion of work	Expected Completion - JF23	Expected Completion - JF23	Expected Completion - JF23	Expected Completion - JF24	Expected Completion - July 23	Expected Completion - Dec-24		
8	Value of Award in (Rs. Lakhs) (including the excise duty and tax)	230145.45 INR + 194.39 USD + 40.98 EUR	106291.30 INR + 202.71 USD + 199.67 EUR	205491.40 INR	30883.72 INR	16141.01 INR	15000 INR	15000	768731.37
9	Flow or Work Excisions in price	Price Adjustment available	Price Adjustment available	Price Adjustment available	Price Adjustment available	Price Adjustment available	Price Adjustment available		
10	Actual capital expenditures till the completion or up to COD of Unit-1 (in JLRJ-2023 whichever is earlier) (Rs. Lakhs) (inclusive of Owner Issue Material and Excisions)	2,30,745.08	1,84,032.09	1,84,032.09	26,443.04	17,997.06	7,093.36	43,330.67	614440.195
11	ICB, IC, FERRY & Bridging cost (Rs. Lakhs)	15,279.96	3,318.84	13,659.61	1,809.33	3,266.14	899.83		
12	ICB, IC, FERRY & Bridging cost (Rs. Lakhs)	38986.08	18015.03	11777.27	4562.31	3155.11	1273.83	841.07	
13	Sub-total (10+11+12) (Rs. Lakhs)	2,74,010.12	1,96,065.90	2,46,498.99	22,265.59	22,268.23	8,218.12	846.94	45000
14	Actual capital expenditures till the completion or up to COD of Unit-2 (in JLRJ-2023 whichever is earlier) (Rs. Lakhs) (inclusive of Owner Issue Material and Excisions)	4,98,345.03	1,73,753.45	2,43,279.32	36,791.86	19,597.06	10,347.39	46,444.18	796028.337
15	ICB, IC, FERRY & Bridging cost (Rs. Lakhs)	28,211.13	12,242.11	17,140.43	2,584.96	1,780.79	543.33	880.56	
16	ICB, IC, FERRY & Bridging cost (Rs. Lakhs)	65,205.26	30,037.65	42,015.32	6,511.67	3,186.15	1,832.66	2,139.48	63,184.05
17	Sub-total (14+15+16) (Rs. Lakhs)	4,97,955.65	2,04,035.21	2,46,236.17	46,293.61	24,664.96	18,113.69	74,284.32	1,54,977.45
									11,74,612.18

Preliminary

Details of variables, parameters, optional package etc. for New Project

Name of the Petitioner		NTPC LTD
Name of the Generating Station		TELANGANA SUPER THERMAL POWER PROJECT (2x800MW)
Unit Size		800 MW
Number of Units		2
Greenfield/Extension		Extension
S. No.	Variables	(Design Operating Range) Values
1	Coal Quality – Calorific Value	3500 Kcal/Kg
2	Ash Content	40%
3	Moisture Content	14%
4	Boiler Efficiency	86.70%
5	Suspended Particulate Matter	50 mg/NM3
6	Ash Utilization	Dry ash Extraction system
7	Boiler Configuration	Coal fired, Once through, Spiral walled, Drumless, top supported, Balanced draft furnace
8	Turbine Heat Rate	1776 kcal/kwh
9	CW Temperature	33 deg C
10	Water Source	Sri Pada Yellampally Project on Godavari River
11	Distance of Water Source	18KM
12	Clarifier	3 no. PT-CW clarifiers (design flow 2000 cu.m/hr) + 1 no. PT- DM clarifier (Design flow 268 cu.m/hr)+ 1 no POTABLE Clarifier(Design Flow 1100 cu.m/hr)
13	Mode of Unloading Oil	Road
14	Coal Unholding Mechanism	Track Hopper (1 No.) + Wagon tippers (3 No.)
15	Type of Fly Ash Disposal and Distance	HCSO + Dry fly ash; Distance of Ash dyke- 4.5 Km
16	Type of Bottom Ash Disposal and Distance	Slurry disposal, Distance of Ash Dyke- 4.5 Km
17	Type of Soil	0.0 - 1.0 m Silty sand / Silty clay / Ash (N = 6 - 27) 1.0 - 5.0 m Fractured/Soft Disintegrated Rock (N>100) 5.0 - 25.0 m Rock (Sandstone)
18	Foundation Type (Chimney)	Block foundation
19	Water Table	1.5 to 3.0 Mtrs Depth
20	Seismic and Wind Zone	Siesmic Zone-III; Wind Zone-Category- II (Basic wind speed-44 m/s)
21	Condensate Cooling Method	Induced Draft Cooling Towers
22	Desalination/RO Plant	RO plant
23	Evacuation Voltage Level	400 KV
24	Type of Coal (Domestic/Imported)	Domestic
Parameter/Variables		Values
Completion Schedule		Commercial operation schedule as per investment approval 52 months for first unit with phase interval of six months between the units.

Terms of Payment	For Main packages of SG & TG payment terms are : a) Supply Contract : 15%- Intial advance, 60%- Despatch, 15%-Receipt, 10%-Final payment; b) Erection contract : 10%- erection advance (optional), 80% -Stage payments, 10%-Final payments;
Performance Guarantee Liability	10% of Contract value (CBG)
Basis of Price (Firm/Escalation-Linked)	Escalation linked
Equipment Supplier (Country of Origin)	SG - M/s BHEL TG - M/s GEPSIL BOP - M/s TPL FGD - M/s GEPIL Ash Dyke - M/s Subash Infra Engineers PVT Ltd
Optional Packages	Yes/No
Desalination Plant/RO Plant	
MGR	
Railway Siding	Yes
Unloading Equipment at Jetty	No
Rolling Stock/Locomotive	
FGD Plant	Yes
Length of Transmission Line till Tie Point (in km)	

(Petitioner)



Name of the Petitioner Name of the Generating Station		NTPC Limited Telangana Super Thermal Power Project Stage-I			In case there is Cost overrun		PART-I FORM-F	
Sl. No. (1)	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/ to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	(Amount in Rs. Lakh)		
		Total Cost	Total Cost			Increase in soft cost due to	Increase in hard cost	
1								
2								
3								
4								
5								

Shall be provided as on actual COD of Unit/ Station.

Note:

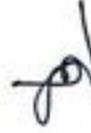
Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.

(Petitioner)

Name of the Petitioner		In case there is time over run							PART-I FORM-G
Name of the Generating Station		NTPC LTD TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800 MW)							
Sr.No	Description of Activity/Works /Service	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over-Run		Reasons for delay	Other Activity affected (Mention Sr No of activity affected)
		Start Date	Completion Date	Actual Start Date	Actual Completion Date	Days	Days		
1	2	3	4	5	6	7	8		9
1									
2									
3									

To be filed at the time of actual COD/truing-up

(Petitioner)



Name of the Petitioner
Name of the Generating StationNTPC LTD
TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800 MW)Statement of Capital cost
(To be given for relevant dates and year wise)

S. No.	Particulars	(Amount in Rs. Lakh)		
		As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be filed at the time of actual COD/truing-up.

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Name of the Petitioner
Name of the Generating StationNTPC LTD
TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800 MW)Statement of Capital Works in Progress

(Amount in Rs. Lakh)

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

To be filed at the time of actual COD/truing-up.

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)



Name of the Petitioner		Incidental Expenditure during Construction up to Scheduled COD and up to Actual/anticipated COD		Part-I
Name of the Generating Station		NTPC LTD TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800MW)		Form-P
Sl.No.	Parameters	As on Scheduled COD 29.05.2020	As on actual/anticipated COD (31.05.2023)* (for Both units combined)	(Rs. In Lakh)
A Head of Expenses:				
1	Employees' Benefits Expenses			
2	Power Charges			
3	Other Office and Administrative Expenses			
4	Others(Depreciation)			
5	Actuarial gain/loss OCI			
	Total Expenses			
B Income				
1	Interest on Loans and advance			
2	Income from sale of scrap			
3	Hire Charge-Const/other equipment			
4	Sale of Tender Forms			
5	Power Charges Recovered from Contractors			
6	Receipt from Guest House			
7	Other Miscellaneous Receipts			
	Total Expenses			
	Net Expenses (A-B)			
			#VALUE!	0.00
				Petitioner

Shall be provided at the time of revised petition on actual COD/ truing-up

Expenditure under different packages up to Scheduled COD and up to Actual/Anticipated COD

Name of the Petitioner
Name of the Generating Station

NTPC LTD
TELANGANA SUPER THERMAL POWER PROJECT STAGE-I (2x800MW)
(Amount in Rs. Lakh)

Sl. No.	Parameters	As on actual/anticipated COD (31.05.2023)* (for Both units combined)	
		As on Scheduled COD 30.11.2020* (for both units combined)	As on actual/anticipated COD (31.05.2023)* (for Both units combined)
1	Steam Generator Island Package		
2	Steam Turbine Island Package		
3	Balance of Plant Island Package		
4	FGD Package		
5	Ash Dyke Package		
6	Site Packages		
	Total	0.00	0.00

Shall be provided at the time of revised petition on actual COD/truing-up

Petitioner

**PART I
FORM-S**

Statement of Liability Flow

Name of the Petitioner : NTPC Limited

Name of the Generating Station : Telangana STPS STAGE-I (2x800 MW)

Party	Asset / Work	Year of actual capitalisation	Original Liability	(Amount in Rs Lakh)		
				Liability as on 31.03.2019	Discharges (Year wise)	Reversals (Year wise)
Liability details Shall be provided on actual COD of U#1						
						(Petitioner)





No. 5/4/2018-Th-II
Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi dated 25th February, 2019

- To,
1. Chairperson,
Central Electricity Authority,
Sewa Bhawan,
R.K.Puram,
New Delhi-110066.
 2. Chairman & Managing Director,
NTPC Limited,
Scope Complex, Lodhi Road
New Delhi-110003
 3. Member Secretary,
Southern Regional Power Committee,
Central Electricity Authority,
No. 29, Race Course Cross Road,
Bangalore-560 009

Sub: Allocation of power generated from Telangana Super Thermal Power Project (4000MW) Phase-I (2x800 MW) and Phase-II (3x800MW) of NTPC Ltd. in Peddapalli District in Telangana - regarding.

Sir,

I am directed to refer to this Ministry's letter No. 5/4/2018-Th-II dated 16.03.2016 and to say that the Government of India has approved the allocation of 85% power to the State of Telangana, generated from the Telangana Super Thermal Power Project (4000MW) Phase-I (2x800 MW) and Phase-II (3x800MW) of NTPC Ltd. in Peddapalli District, in Telangana, being implemented by NTPC Ltd. with effect from the date of commercial operation of the plant.

2. Balance 15% of the generation capacity from both the power plants will remain earmarked as "unallocated power" and this generation capacity is placed at the disposal of Central Government for generally meeting urgent / contingent requirements of States / UTs from time to time. The details of allocation of power are as under:

SOUTHERN REGION	NET SHARE (MW)	% OF INSTALLED CAPACITY
TELANGANA	3400 MW	85.00
UNALLOCATED	600 MW	15.00
TOTAL (SR)	4000 MW	100.00

A. T.

3. The aforesaid allocation will be operative for pro-rata distribution to the quantum of electricity mentioned above, based on auxiliary consumption, planned outage, forced outage, availability of fuel/water etc. and after taking into account transmission losses.

4. The above allocation will further be subject to the Power Purchase Agreements (PPAs) entered into by NTPC Limited with State Power Utilities and will further be subject to the beneficiaries ensuring compliance with the financial and commercial terms (including coverage for letter of Credit) of the PPA signed with NTPC Ltd. the tariff notification, any tripartite/bi-partite agreement signed with NTPC and any other directives/guidelines issued by the Government of India/Central Electricity Regulatory Commission from time to time.

Yours faithfully,



(Anita Saini)

Under Secretary to the Govt. Of India

Tele: 2371-9710

Copy to:

1. Chief Secretary, Government of Telangana, C- Block, 3rd Floor, Telangana Secretariat, Hyderabad, Telangana - 500022.
2. Shri S.G.P. Verghese, Director, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi w.r.t. communication No.7/CM/2019(I) dated 11.02.2019 forwarding therewith the minutes of the meeting of the Cabinet held on 06.02.2019 (Case No.43/7/2019).

Copy for information:

1. PS to Minister of State (I/C) for Power, Coal and NRE
2. PPS to Secretary (Power)/ PPS to AS (P)/PPS to JS(Thermal)/PS to CE(OM)/ PA to Director(Thermal)

EXTRACTS FROM THE MINUTES OF 429TH MEETING OF THE BOARD OF DIRECTORS HELD ON FRIDAY, 29TH JANUARY 2016

Item No.429.2.10	Telangana STPP, Phase-I (2x800 MW) - Investment approval		
XX	XX	XX	XX
XX	XX	XX	XX

The Board, after discussions, passed the following resolution:

Resolved that the investment proposal for Telangana Super Thermal Power Project, Phase-I (2x800 MW) at PricewaterhouseCoopers India (PwC) appraised Current Estimated Cost of Rs. 10598.98 Crore including Interest During Construction (IDC) and Financing Charges (FC) of Rs. 1475.04 Crore and Working Capital Margin (WCM) of Rs. 276.48 Crore as of IV Qtr. '2015 price level and corresponding Indicative Estimated Completed Cost of Rs. 11811.26 Crore including IDC and FC of Rs. 1643.56 Crore and WCM of Rs. 285.73 Crore, as per the memorandum submitted before the Board of Directors, be and is hereby approved.

Annexure - C



Replied vide
letter dt 22/10

Ref: TPL/NTPC-RAMAGUNDAM/RCM-SITE/ 2636

Dated: 14-Oct-2019

To,
AGM (CCD)
Telangana Super Thermal Power Project,
NTPC Limited,
P.O. Jyotinagar NTPC, Ramagundam,
District: Karim Nagar, Telangana- 505 215

Kind Attn: Shri. Atul Patil- AGM (CCD)

Sub: Telangana Super Thermal Power Project, Phase-I (2X800 MW) - Balance of Plant (BOP) - **Regarding scarcity of sand.**

Ref: 1) TPL Letter No TPL/NTPC-RAMAGUNDAM/RCM-SITE/2630 Dated 11th Oct 19
2) NTPC Letter No TeSTPP/NTPC/CCD-1/BOP/2019/145 Dated 14th Oct 2019.

Dear Sir,

With reference to the subject matter and letters referred above, please note that intent to our letter was not to escape from responsibility but to sensitize NTPC about the criticality and to explore a feasible solution jointly.

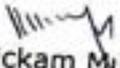
We do agree that arrangement of construction material is in the scope of TPL but TPL or any other organization can arrange material only if it is available in market. As you are aware that the scarcity is due to the recent revision in state government sand allotment policy, which is beyond TPL's purview.

In view of the above, being an government organization and principle owner of state's prestigious project, we would like to once again request you to explore remedy for this crisis as site progress has come to halt due to non-availability of sand in local market.

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

Yours truly,

for **TATA PROJECTS LTD**


Manickam Murugappan
General Manager and RCM

TATA PROJECTS LIMITED

Project Office : 2X800 MW Telangana STPP Phase -1 NTPC Ramagundam PO : Jyothinagar District : Peddapalli
Telangana - 505 215 India. e-mail : tplramagundam@tataprojects.com

Registered Office : "Mithona Towers-1" 1-7-80 to 87 Penderghast Road Secunderabad - 500 003 Telangana India
Phone +91-40-6623 8801 Fax 6617 2535 CIN U45203TG1979PLC057431 e-mail : tpl@tataprojects.com www.tataprojects.com

22/10/19
14/10/19
11163
14/10/19
1116



Sh. S. K. Patel
 M. S. K. Patel
 Date: 11.10.2019
 replaid on 14/10
 Prem Prasad 11/10

TPL/NTPC-RAMAGUNDAM/RCM-SITE/2630

To,
 CGM-Projects
 M/S.NTPC Limited
 Telangana STPP
 BOP Works
 Jyothi Nagar, Ramagundam.

for A707 11/10
 11.10.19

Subject: Telangana Super Thermal Power Project, Phase-1 (2X800 MW) - Balance of Plant (BOP Package) -
 Regarding scarcity of sand in Ramagundam region from past four months

Ref: 1.NOA No. (i) CS-9591-001C-2-FC-NOA-6534, Date: 10.01.2017
 (ii) CS-9591-001C-2-SC-NOA-6535, Date: 10.01.2017
 2. Contract Agreement: CS-9591-001C-2-FC-COA-6534, Date: 10.01.2019

Dear Sir,

With reference to the subject, we would like to bring to your kind notice about the severe scarcity of sand in nearby sand source and stockyard from past 4 months, which is impacting our schedule and resulting inevitable delays in planned construction activities. Aforementioned issue has been informed in various forums and beyond the control of TPL. Details of recent sand allotment (From TSMDC) against requested quantity appended as under, which reflects the overall inadequacy of sand availability in Ramagundam region:

Sl. No.	Date	Sand Allotment Requested (CUM)	Sand Allotment Received (CUM)
1	10-Jun-2019	40,000	4,000
2	01-Aug-2019	50,000	2,000
3	10-Sep-2019	34,000	3,000
4	28-Sep-2019	50,000	1,000

Further, TSMDC has imposed the limitation on approval and rotation of sand trucks (one sand truck can be reloaded after 5 days only), which has resulted acute shortage in sand supply.

Being a government project, here we request NTPC to extend their support and take radical measures with government official to ease the shortage of sand ASAP. Due to crisis of sand concrete production has extremely constricted and work progress is getting hampered at all work fronts.

We highly solicit your kind cooperation in this regard.

Thanking you and assuring for our best services and attention all the times

Yours Truly,
 For TATA PROJECTS LIMITED

Manickam Murugappan
 General Manager & RCM

CC: Ho - TPL

GM (Project)
 In 1942
 Dt. 11/10/19

CD (In) 1207
 11/10/19
 TELANGANA STPP/CD
 No. 1114
 Date: 11/10/19

9:30

TATA PROJECTS LIMITED

Project Office: 2X800MW, Telangana STPP Phase-1, NTPC Ramagundam, PO: Jyothinagar, District: Peddapalli, Telangana - 505215, INDIA | E-mail: tpramagundam@tataprojects.com
 Registered Office: "Mithuna Towers-1" 1-7-80 to 87, Prenderghast Road, Secunderabad, Telangana - 500 003, INDIA
 Phone: +91-40-6623 8801 | Fax 6617 2535
 e-mail tpi@tataprojects.com
 www.tataprojects.com
 CINU45203AP1979PLC057431



SAND SALE MANAGEMENT & MONITORING SYSTEM (SSMS)
 Department of Industries & Commerce
 Telangana State Mineral Development Corporation (TSMDC)

UPDATES AT A GLANCE:
 the back and once in the 5 days of loading performed notes

Due to heavy rains , private & government bulk orders can be seen loading once in 8 days keeping in view the stock yard roads .

You can see the loading stopped at the brick (Nalgonda) Sand Reach due to the lack of sand.

You can observe that TSMDC will take

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Designed & Developed by



TELUGU

ENGLISH



Barry rains caused TSMDC stock yard of the suspended load reduction was but TSMDC within a suitable sand is a rain-reduced as soon as the loading is increased, so customers are more price paid sand to buy should not be that the appeal

Varsalakarananga time mahadevapur Irrigation (MAHADEVPUR-IRR) Reach was formerly carried out by loading a lorry in the back and once in the 5 days of loading performed notes

Due to heavy rains, private & government bulk orders can be seen loading once in 8 days keeping in view the stock yard roads.

You can see the loading stopped at the brick (Nalgonda) Sand Reach due to the lack of sand.

You can observe that TSMDC will take appropriate action on the lorry if the lorry delivery in PRIVATE bulk does not have to be sent back to Sand Reach only after 5 days from the date.

If you are not able to make a payment within 10 days of the arrival of the private bulk approval, you will notice that the application will be closed.

During May 2022 some stations were reported record (highest) temperature, the table below shows stations reported highest temperature and its previous record.

STATION NAME	NEW RECORD (°C)*	DATE (MAY 2022)	PREVIOUS RECORD (°C)	Date
Ratlam	46	9	45.5	13-05-1970
Naliya	46.1	14	44.2	23-05-2018
Karwar	37.6	3 & 4	37.4	10-05-2010

* Based on real time available data

4. Significant Weather Events for the month May 2022:

From 1st May to 31st May, total 159 persons reportedly claimed dead, 33 persons injured, 11 persons missing & 1186 livestock perished. The details of casualties given below, which are based on real time media reports and other state government agencies. Fig. No.6 shows significant weather events during the month. (based on real time media reports.)

Thunderstorm : Total 5 persons reportedly claimed dead & 1 person injured on 18th and 19th May 2022 because of Thunderstorm at Barpeta and Dhubri district of Assam State.

Heat Wave : One person reportedly claimed dead on 10th May 2022 due to Heat Wave in Nagpur district of Maharashtra State.

Gale : One person reportedly claimed dead on 12th May 2022 due to gale in Kamrup Metro of Assam state.

Dust Storm : Total 22 persons reportedly claimed dead on 23rd May 2022 due to dust storm in Amethi, Ambedkar Nagar, Ayodhya/Faizabad, Ballia, Barabanki, Chitrakoot, Firozabad, Gonda, Jaunpur, Kaushambi, Muzaffarnagar, Sitapur, Varanasi of Uttar Pradesh State.

Lightning: Total 55 persons reportedly claimed dead, 19 persons injured & 35 livestock perished, during the month because of Lightning. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE) AFFECTED
19 & 20 May	34			Araria, Banka, Begusarai, Bhagalpur, Jamui, Jehanabad, Lakhisarai, Munger, Muzaffarpur, Nalanda, Purnia, Saran, Vaishali (Bihar)
4, 21, 23 May	10	10		Aligarh, Amroha, Banda, Bijnor, Lakhimpur Kheri, Meerut, Shahjahanpur (Uttar Pradesh)
1, 4, 17 May	5	7	33	Bidar, Chitradurga, Gulbarga, Mandya (Karnataka)
4 May	3		2	Chittoor, Guntur (Andhra Pradesh)
4 May	1	1		Siddipet (Telangana)
22 May	1	1		Sirmaur (Himachal Pradesh)
28 May	1			Ganjam (Odisha)

Floods, Heavy Rains & Landslide: Total 75 persons reportedly claimed dead, 13 persons injured, 11 persons missing & 1151 livestock perished, during the month, because of Floods, Heavy Rains & Landslide. The details of the area effected by the events are summarized and given in the table below;

TEMPERATURE FOR THE MONTH JULY 2021 & ITS ANOMALY

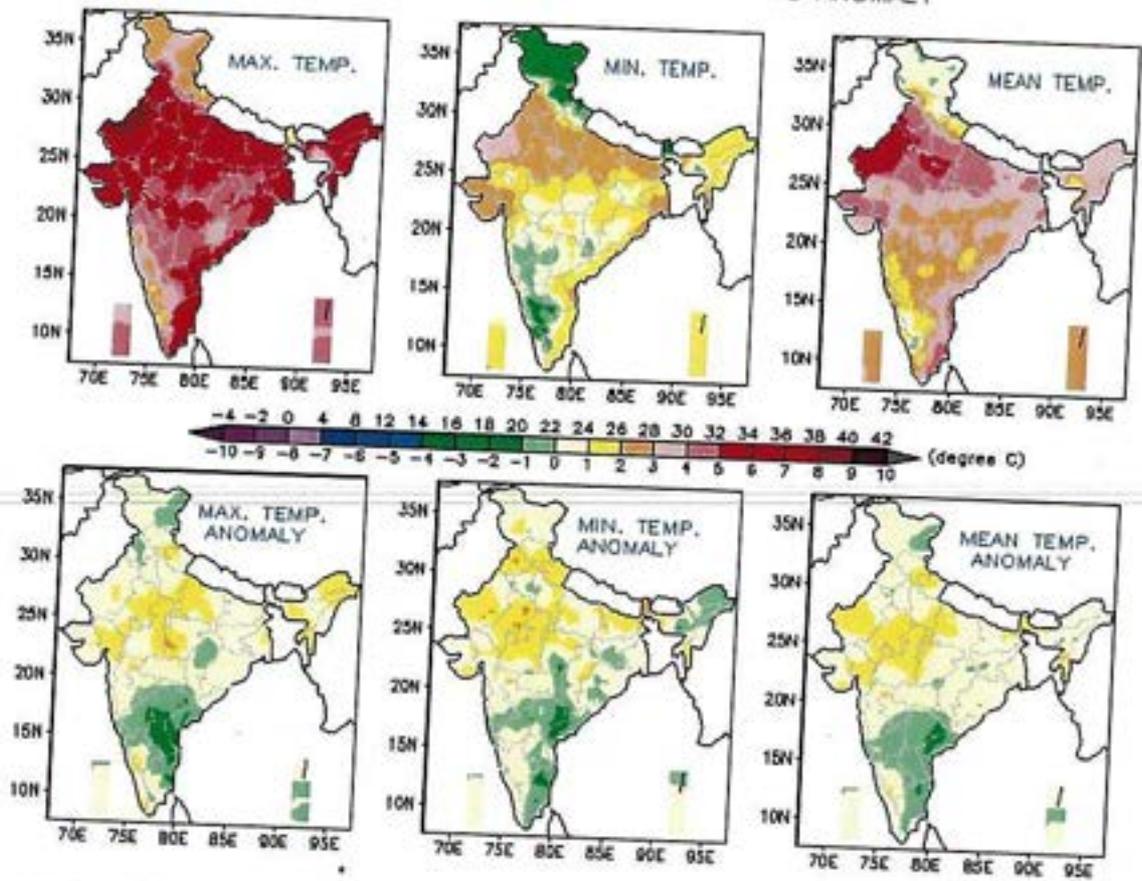


Fig 9: Observed spatial temperature pattern of monthly average maximum average minimum and mean temperature over India (top three from left to right) and their departure from normal (1981 to 2010 period) for July 2021 (lower three from left to right).

3. Significant Weather Events for July 2021

During July, 304 persons were reportedly claimed dead, 130 persons injured, more than 80 persons missing & 615 livestock perished. The details of casualties are given below, which are based on real-time media reports. Figure 10 shows significant weather events during the month. (based on real-time media reports.)

Floods & Heavy Rain: A total of 192 persons were reportedly claimed dead, 38 persons injured, more than 80 persons missing & 345 livestock perished because of cloud burst, heavy rains, floods, landslides during the month. In addition to this, extensive damage to crops, public & private property was also reported. The details of the area affected by the events are summarised and given in the table below;

DATE	DEATH	INJURED	MISSING	LIVESTOCK	DISTRICT AFFECTED (STATE)
9 th & 11 th to 26 th July	131	35	42	267	Ahmednagar, Chandrapur, Hingoli, Kolhapur, Mumbai City, Mumbai Suburban, Nanded, Osmanabad, Palghar, Parbhani, Raigad,

					Ratnagiri, Satara, Sindhudurg, Thane, Wardha (Maharashtra)
12 th & 27 th July	30	-	Many	-	Chamba, Kangra, Kinnaur, Kullu, Lahaul-Spiti (Himachal Pradesh)
28 th July	16	-	40	-	Kishtwar, Udhampur (Jammu & Kashmir)
22 nd to 24 th July	9	-	3	78	Belgaum, Chikmagalur, Dharwad, Haveri, Uttara Kannada (Karnataka)
11 th July	3	-	-	-	Chamoli (Uttarkhand)
19 th July	3	3	-	-	Sambhal, Sitapur (Uttar Pradesh)

Lightning: Total of 112 persons were reportedly claimed dead, 92 injured & 270 livestock perished during the month because of Lightning. The details of the area affected by the events are summarized and given in the table below;

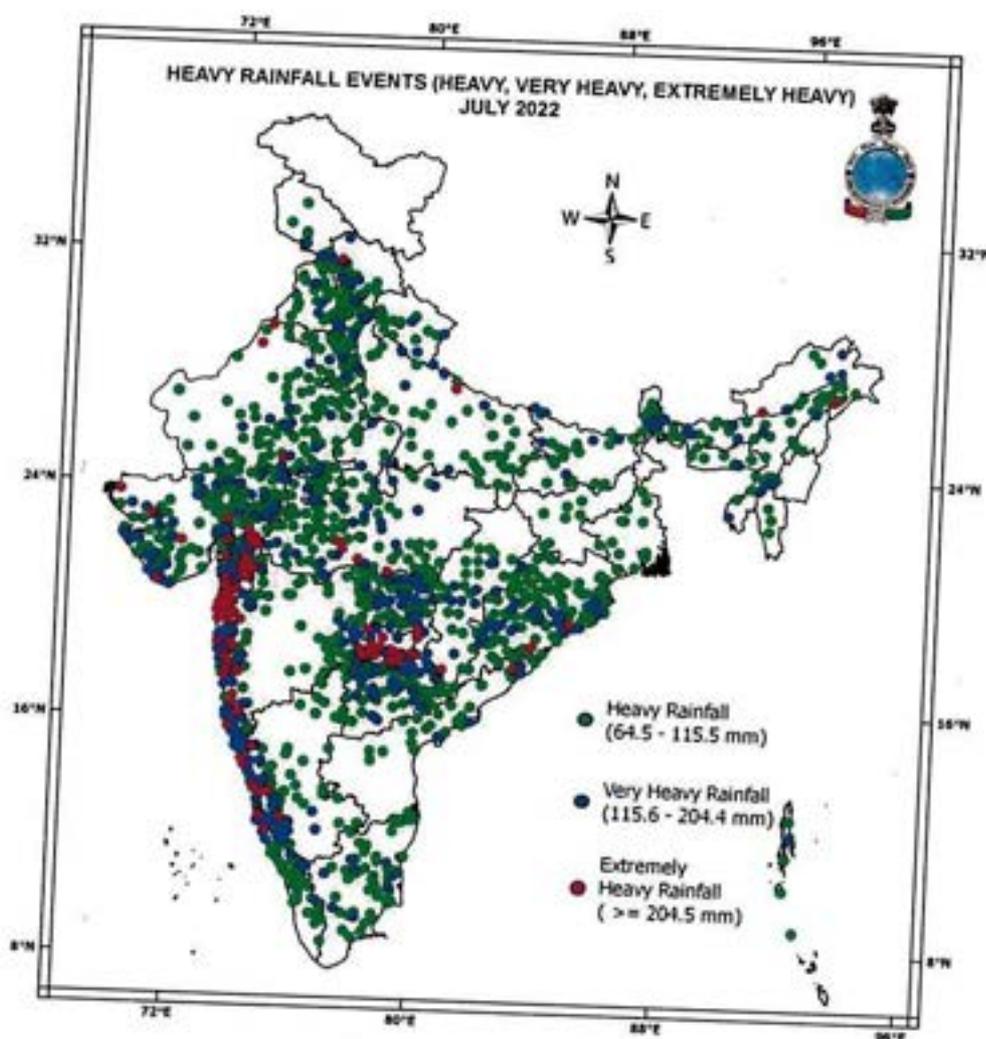
DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE) AFFECTED
11 th July	42	23	250	Allahabad / Prayagraj, Banda, Chitrakoot, Fatehpur, Firozabad, Hamirpur, Hardoi, Kanpur Dehat, Kaushambi, Mirzapur, Sonbhadra, Unnao districts of Uttar Pradesh
11 th & 14 th July	29	29	16	Baran, Chittorgarh, Dhaulpur, Jaipur, Jhalawar, Jodhpur, Kota, Nagaur, Pali, Sawai Madhopur, Tonk (Rajasthan)
11 th , 12 th , 13 th , 23 rd & 24 th July	25	29	-	Alirajpur, Betul, Chhatarpur, Datia, Gwalior, Hoshangabad, Panna, Rewa, Shahdol, Sheopur, Shivpuri (Madhya Pradesh)
3 rd & 11 th July	9	1	-	Kunti (Jharkhand)
7 th & 11 th July	4	1	4	Nanded (Maharashtra)
6 th July	2	9	-	Mahabubabad (Telangana)
10 th July	1	-	-	Amreli (Gujarat)

3. Frequency of Heavy Rainfall events

The July 2022 witnessed extremely heavy rainfall events mainly along west coast and over Telangana. The location of occurrences of heavy, very heavy and extremely heavy rainfall events is shown in the Figure 3. The details of heavy rainfall events occur in the month of July 2022 is given below.

July Month	extremely heavy rainfall (>204.5 mm)	very heavy rainfall (115.6 to 204.4 mm)	heavy rainfall (64.5 to 115.5 mm)
Number of stations reported	99	349	861
Number of stations reported multiple events	21	176	626

Out of total 1309 stations, 99 stations reported extremely heavy rainfall (>204.5 mm), 349 station reported very heavy rainfall (115.6 to 204.4 mm) and 861 stations reported heavy rainfall (64.5 to 115.5 mm of rainfall) during this month.



(Only highest category of rainfall event considered for a station)

Fig 3: The location of occurrences of extremely heavy rainfall events in the month July 2022.

TEMPERATURE & ITS ANOMOLY FOR THE MONTH JULY 2022

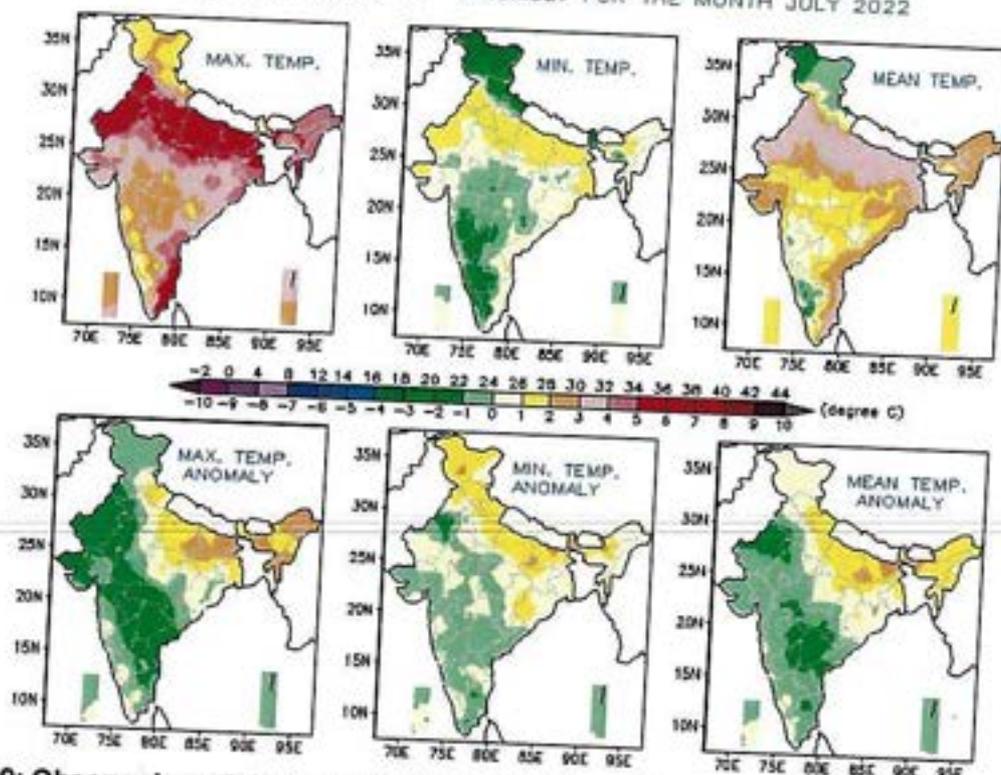


Fig 9: Observed spatial temperature pattern of monthly average maximum, average minimum, and mean temperature over India (top three from left to right) and their departure from normal (1981 to 2010 period) for July 2022 (lower three from left to right).

6. Significant Weather Events for the month of July 2022:

During the month, total 245 persons reportedly claimed dead, 129 persons injured, 56 persons missing & more than 39,000 livestock perished. The details of casualties given below, which are based on real time media reports and other state government agencies.

Fig.10 shows significant weather events during the month. (Based on real time media reports.)

Floods, Heavy Rains & Landslide: Total 128 persons reportedly claimed dead, 55 persons injured, 56 persons missing & 39089 livestock perished, during July 2022, due to Floods, Heavy Rains & Landslide. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	MISSING	LIVESTOCK	DISTRICT (STATE) AFFECTED
1 to 9 & 12, 14, 17, 19 Jul.	23		1	39045	Cachar, Dibrugarh, Hailakandi, Kamrup Metro, Karimganj, Lakhimpur, Morigaon, Nagaon, Sivasagar (Assam)
11 to 13 Jul.	21				Ahmedabad, Amreli, Bharuch, Chhota Udepur, Dangs, Gir Somnath, Junagadh, Kheda, Kutch, Narmada, Navsari, Panchmahal, Surat, Tapi, Valsad & parts of Gujarat
6, 9, 11, 12, 13, 19 Jul.	20	14	4	39	Amravati, Gadchiroli, Mumbai Suburban, Nagpur, Nashik, Palghar, Pune, Sindhudurg, Thane (Maharashtra)
8 & 31 Jul.	19	21	40		Anantnag, Kathua (Jammu & Kashmir)
8, 12, 14, 22, 23 Jul.	11	3			Kumuram Bheem Asifabad, Nalgonda, Karimnagar, Medak, Warangal Urban, Yadadri Bhuvanagiri

6 Jul.	9	2	11	5	(Telangana)
18 to 25 Jul.	7				Kullu, Shimla (Himachal Pradesh)
19 & 25 Jul.	7				Eluru, Konaseema, West Godavari (Andhra Pradesh)
4, 6, 22 Jul.	5	9			Jodhpur, Pratappgarh (Rajasthan)
16 Jul.	4				Chikmagalur, Dakshina Kannada, Gulbarga (Karnataka)
19 Jul.	2	6			Palakkad, Thrissur (Kerala)
					Rudraprayag (Uttarakhand)

Lightning: Total 116 persons reportedly claimed dead, 74 persons injured & 43 livestock perished, in this month, because of Lightning. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE) AFFECTED
3, 4, 6, 8, 23, 26 Jul.	10	5	3	Baksa, Biswanath, Chirang, Golaghat, Karbi Anglong, South Salmara (Assam)
1, 2, 25, 27 Jul.	41			Arwal, Aurangabad, Banka, Bhojpur, Buxar, Gaya, Gopalganj, Jehanabad, Kamiur, Madhepura, Madhubani, Nalanda, Nawada, Patna, Rohtas, Siwan (Bihar)
11 & 12 Jul.	4	5		Agar Malwa, Mandasaur (Madhya Pradesh)
9 & 30 Jul.	5	1		Chandrapur, Nanded (Maharashtra)
22 Jul.	5	5		Bargarh, Dhenkanal, Keonjhar (Odisha)
5, 6, 8 Jul.	6	4	40	Bundi, Jaipur, Kota (Rajasthan)
3, 20, 25, 26 Jul.	36	28		Amethi, Budaun, Banda, Balrampur, Bulandshahr, Chandauli, Chitrakoot, Fatehpur, Ghazipur, Kaushambi, Prayagraj, Raebareli, Sitapur, Sultanpur (Uttar Pradesh)
30 Jul.	2	20		Giridih (Jharkhand)
26 & 29 Jul.	7	6		Jashpur, Mahasamund (Chhattisgarh)

Thunderstorm: One person reportedly claimed dead on 15th July in Sivasagar district of Assam due to Thunderstorm.

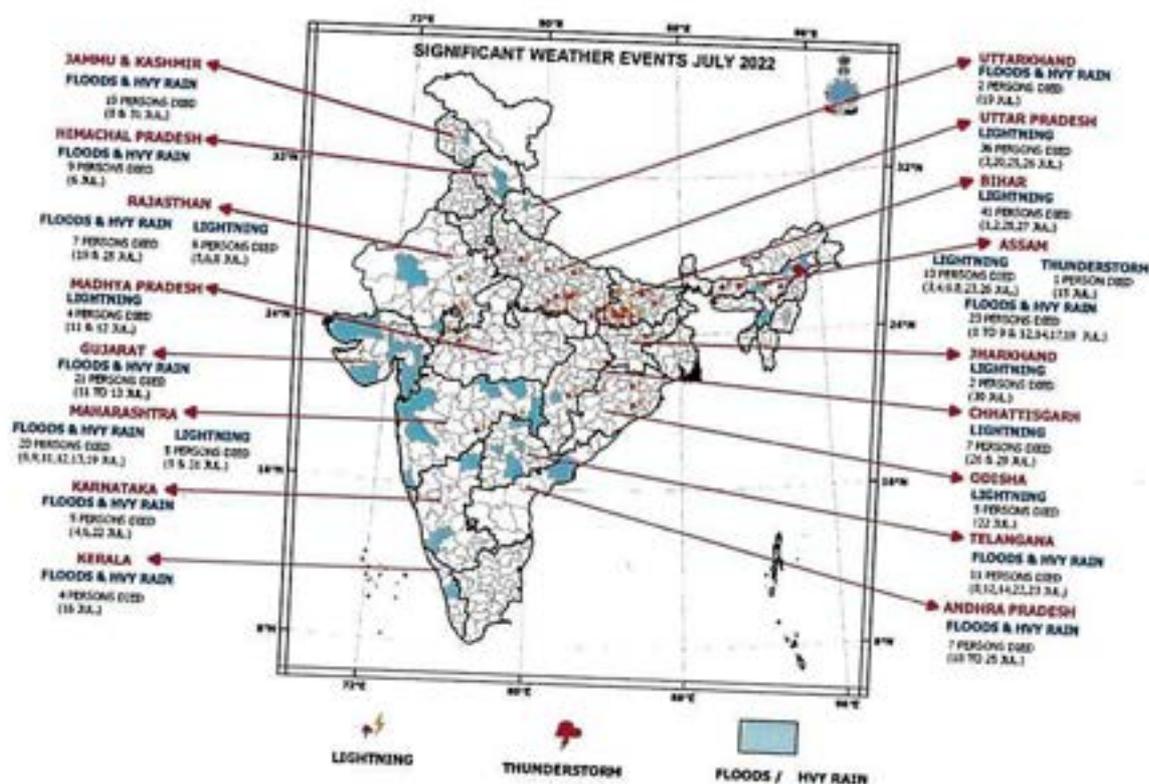


Fig 10: Significant weather events during July 2022 (Based on real-time media report)

DATE	DEATH	INJURED	MISSING	LIVESTOCK	DISTRICT (STATE) AFFECTED
11, 15, 19, 20 Aug.	31	12			Chamba, Kangra, Kullu, Lahaul & Spiti, Mandi (Himachal Pradesh)
8, 9, 10 Aug.	26		1	50	Amaravati, Nagpur, Washim, Yavatmal (Maharashtra)
1, 2, 29 Aug.	22		5		Ernakulam, Idukki, Kannur, Kottayam, Kollam, Malappuram, Pathanamthitta, Thiruvananthapuram (Kerala)
13, 14, 17, 19, 21, 22 Aug.	12	7			Balasore, Keonjhar, Khordha, Koraput, Mayurbhanj, Sambalpur (Odisha)
19, 29 Aug.	10	3	7		Dehradun, Pauri Garhwal, Tehri Garhwal (Uttarakhand)
1, 4 Aug.	8	1			Dakshina Kannada, Tumkur, Uttara Kannada (Karnataka)
20 Aug.	3				Ramgarh, West Singhbhum (Jharkhand)
22 Aug.	2	4	2		Baran, Bundi (Rajasthan)
11 Aug.	2				Ramban (Jammu & Kashmir)

Lightning : Total 43 persons reportedly claimed dead, more than 35 persons injured & 68 livestock perished, during August , because of Lightning. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	MISSING	LIVESTOCK	DISTRICT (STATE) AFFECTED
6 Aug.	9	2			Guna, Satna, Vidisha (Madhya Pradesh)
3, 16, 28 Aug.	8	7		60	Alluri Seetarama Raju, Eluru (Andhra Pradesh)
4 Aug.	6				Banka, Katihar, Nawada (Bihar)
28 Aug.	5	11			Jharsuguda, Mayurbhanj (Odisha)
6, 7, 8, 13, 18 Aug.	5	2		8	Cachar, Goalpara, Kokrajhar, Lakhimpur, South Salmara (Assam)
1, 13 Aug.	4	15			East Singhbhum, Gumla, Ranchi (Jharkhand)
3 Aug.	3				Jayashankar Bhupalpally (Telangana)
6 Aug.	2				Muzaffarnagar (Uttar Pradesh)
6 Aug.	1				Bijapur (Karnataka)

Thunder storm: One person reportedly claimed dead on 8th August in Lakhimpur district of Assam because of Thunderstorm.

Significant Weather Events occurred during the month of September 2021:

During the month, total 153 persons reportedly claimed dead, 29 persons injured, 2 persons missing & more than 1900 livestock perished. The details of casualties given below, which are based on real time media reports.

Floods & Heavy Rain: Total 112 persons reportedly claimed dead, 9 persons injured, one person missing & more than 1880 livestock perished because of heavy rains & floods during the month. In addition to this damage to crops, public & private property reported. The details of the area effected by the events are summarised and given in the table below;

DATE	DEATH	INJURED	MISSING	LIVESTOCK	DISTRICT (STATE) AFFECTED
1 to 10, 20 & 21, 28 Sep.	41		1	1887	Akola, Amravati, Aurangabad, Beed, Bhandara, Buldhana, Chandrapur, Gondia, Jalgaon, Jalna, Latur, Nanded, Nagpur, Nashik, Osmanabad, Parbhani, Raigad, Ratnagiri, Washim, Yavatmal (Maharashtra)
14 to 18 Sep.	26	9			Barabanki, Basti, Ballia, Chitrakoot, Ghazipur, Fatehpur, Kaushambi, Lucknow, Pratapgarh, (Uttar Pradesh)
6 Sep.	12				Asifabad, Nizamabad, Rangareddi, Vikarabad, Warangal, Yadadri-Bhuvanagiri (Telangana)
1 to 7 Sep.	11			1	Barpeta, Goalpara, Kamrup, Majuli, Morigaon (Assam)
14 to 18 Sep.	10				Hooghly, North 24 Parganas, Purba Medinipur, Paschim Medinipur, South 24 Parganas (West Bengal)
7 to 14 Sep.	7				Ahmedabad, Jamnagar, Junagadh, Porbandar, Rajkot, Valsad (Gujarat)
12 & 13 Sep.	3				Kendrapara, Khordha (Odisha)
6 Sep.	2				West Godavari (Andhra Pradesh)

Thunder storm/Lightning: Total 37 persons reportedly claimed dead, 19 injured & more than 35 livestock perished during the month because of Lightning. The details of the area effected by the events summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE) AFFECTED
21 & 27 Sep.	14	5	Several	Agar Malwa, Betul, Dewas, Morena, (Madhya Pradesh)
10, 20, 21, 27 Sep.	8	8	1	Jalgaon, Latur, Nagpur, Pune (Maharashtra)
2, 27 Sep.	4	1		Begusarai, West Champaran (Bihar)
2, 6, 7 Sep.	3	4	36	Barmer, Chittorgarh, Udaipur (Rajasthan)
26 Sep.	2			East Burdwan (West Bengal)
22 Sep.	2			Bareilly (Uttar Pradesh)
14, 23 Sep.	2			Dahod, Gandhinagar (Gujarat)
20 Sep.	2	1		Adilabad (Telangana)

Cyclonic Storms: Total 3 persons reportedly claimed dead, 1 persons missing because of Cyclonic Storm GULAB (pronounced as Gul-Aab) during the month. In addition to this damage to crops, public & private property reported. The details of the area effected by the

6. Significant Weather Events for the month of September 2022:

During September, total 120 persons reportedly claimed dead, more than 35 persons injured & more than 800 livestock perished. The details of casualties given below, which are based on real time media reports and other state government agencies.

Fig. 10 shows significant weather events during the month. (Based on real time media reports.)

Floods, Heavy Rains & Landslide: Total 61 persons reportedly claimed dead, 21 persons injured & 804 livestock perished, during September, due to Floods, Heavy Rains & Landslide. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE/UT) AFFECTED
16, 17, 21, 23, 24, 26 Sep.	36	20		Agra, Aligarh, Amethi, Balrampur, Deoria, Fatehpur, Firozabad, Etawah, Gorakhpur, Lucknow, Mathura, Muzaffarnagar, Unnao (Uttar Pradesh)
25 & 26 Sep.	10	1		Chamba, Sirmour (Himachal Pradesh)
11, 12, 13, 14, 16 Sep.	8			Amaravati, Akola, Bhandara, Pune, Yavatmal (Maharashtra)
4, 5, 6, 9, 11, 12 Sep.	6		804	Bangalore Urban, Chamara Nagar, Uttara Kannada (Karnataka)
22 Sep.	1			Uttarkashi (Uttarakhand)

Lightning: Total 59 persons reportedly claimed dead, 17 persons injured & one livestock perished, during September, because of Lightning. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE/UT) AFFECTED
19 Sep.	18			Araria, Banka, Begusarai, Jamui, Nawada, Purnia, Saran, Sheikhpura, Supaul (Bihar)
11 & 12 Sep.	9	4		Jhalawar, Udaipur (Rajasthan)
22, 23, 24 Sep.	8	3		Aligarh, Allahabad / Prayagraj, Balrampur, Chandauli, Hardoi, Sitapur (Uttar Pradesh)
8, 11, 28 Sep.	7	3	1	Amaravati, Chandrapur, Pune, Yavatmal (Maharashtra)
10 & 28 Sep.	6	1		Yadgir (Karnataka)
18, 26 Sep.	3			Pudukkottai, Thiruvarur (Tamil Nadu)
19 Sep.	2	3		Surajpur (Chhattisgarh)
3 Sep.	2	1		Biswanath, Dhubri, (Assam)
10 Sep.	2			Dumka, East Singhbhum (Jharkhand)
18 Sep.	1	2		Udham Singh Nagar (Uttarakhand)

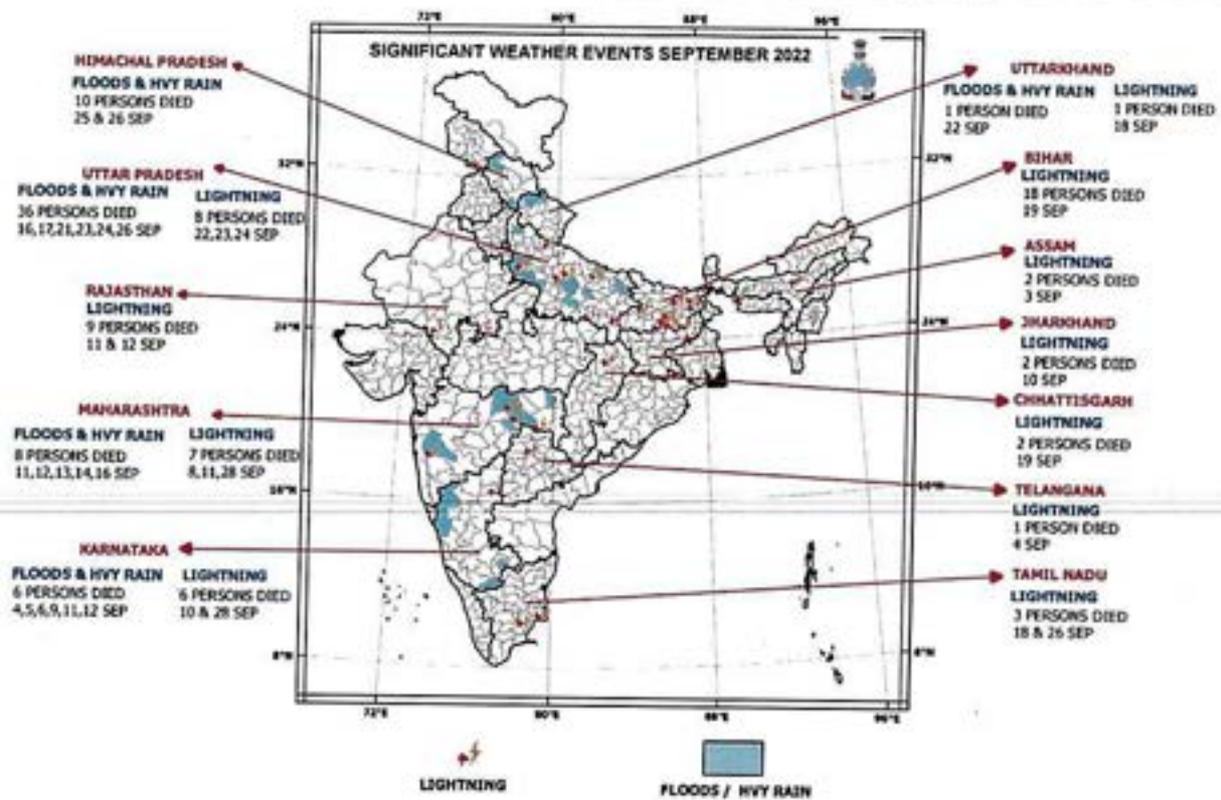


Fig 10: Significant weather events during September 2022 (Based on real-time media report)

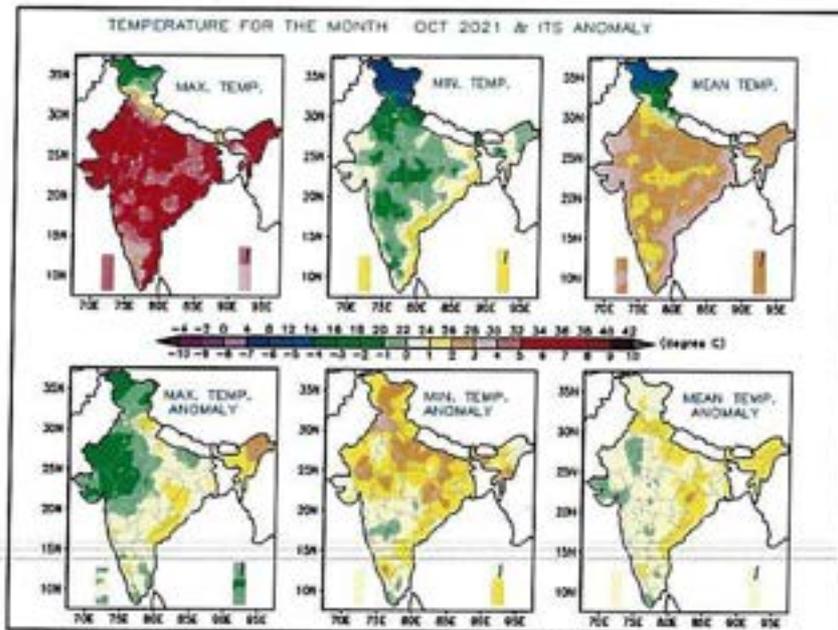


Fig 9: Observed spatial temperature pattern of monthly average maximum, average minimum, and mean temperature over India (top three from left to right) and their departure from normal (1981 to 2010 period) for October 2021 (lower three from left to right).

3. Significant Weather Events for the month of October 2021:

The figure 10 shows significant weather events during the month. (based on real time media reports.).

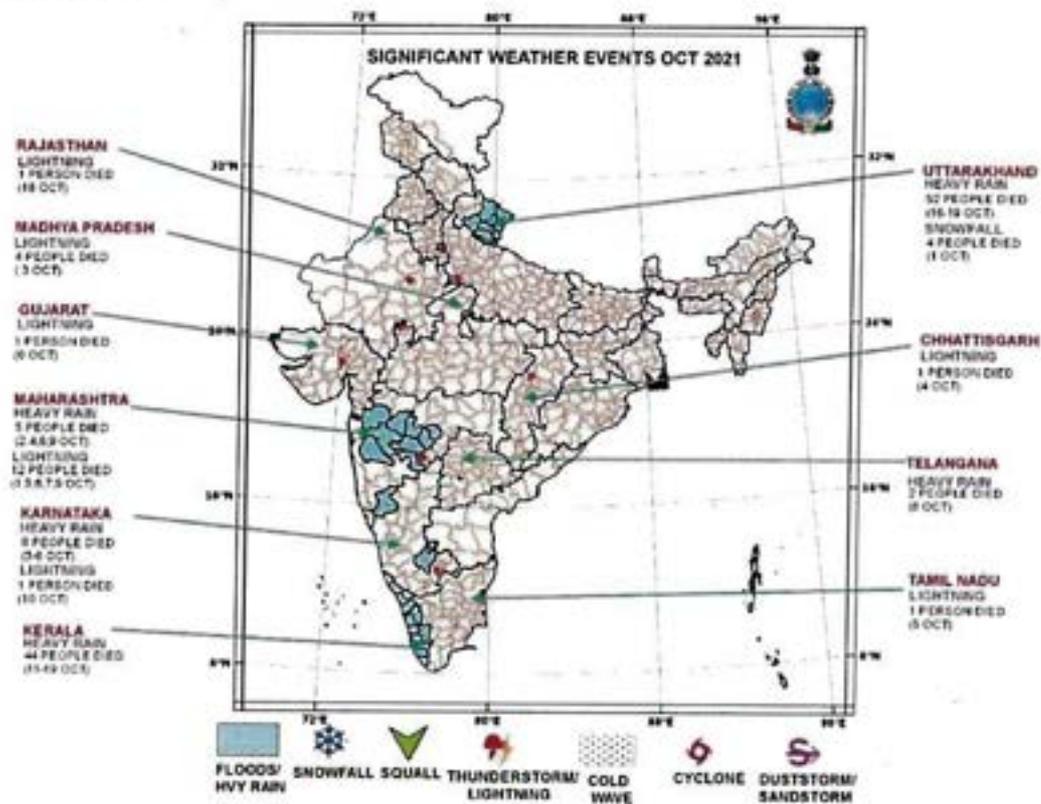


Fig 10: Significant weather events during October 2021 (Based on real-time media report)

From 1st October to 31st October, total 136 persons reportedly claimed dead, 34 persons injured, 13 persons missing & 6 livestock perished. The details of casualties are given below, which are based on real time media reports.

Floods & Heavy Rain: Total 111 persons reportedly claimed dead, 18 persons injured, 11 persons missing & a livestock perished because of heavy rains, floods & landslides during 1st October to 31st October, in addition to this damage to crops, public & private property reported.

The details of the area effected by the events are summarised and given in the table below;

DATE	DEATH	INJURED	MISSING	DISTRICT (STATE) AFFECTED
16 to 19 Oct.	52	17	5	Almora, Bageshwar, Chamoli, Champawat, Nainital, Pauri Garhwal, Pithoragarh, Ranikhet, Udham Singh Nagar (Uttarkhand)
11 to 19 Oct.	44		6	Alappuzha, Idukki, Ernakulam, Kannur, Kottayam, Kollam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Thrissur, Thiruvananthapuram (Kerala)
3 to 6 Oct.	8	1		Belgaum, Tumkur (Karnataka)
6 & 9 Oct.	5			Ahmednagar, Aurangabad, Osmanabad (Maharashtra)
8 Oct.	2			Hyderabad (Telangana)

Lightning/Thunderstorm: Total 21 persons reportedly claimed dead, 14 injured & 5 livestock perished 1st October to 31st October, because of Lightning/thunderstorm. The details of the area effected by the events are summarized and given in the table below;

DATE	DEATH	INJURED	LIVESTOCK	DISTRICT (STATE) AFFECTED
1, 5, 6, 7, 9 Oct.	12	1	5	Beed, Jalna, Latur, Nanded, Nashik, Parbhani, Pune (Maharashtra)
3 Oct.	4	2		Neemuch (Madhya Pradesh)
4 Oct.	1	9		Bilaspur (Chhattisgarh)
6 Oct.	1	1		Ahmedabad (Gujarat)
5 Oct.	1			Chennai (Tamil Nadu)
10 Oct.	1			Bangalore Urban (Karnataka)
18 Oct.	1	1		Jaipur (Rajasthan)

Snowfall: 4 persons reportedly claimed dead & 2 others missing during 1st October to 31st October, because of snowfall.

DATE	DEATH	MISSING	DISTRICT (STATE) AFFECTED
1 Oct.	4	2	Chamoli (Uttarakhand)

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

Appeal No.46 of 2016 (SZ)

(Through Video Conference)

IN THE MATTER OF

Uma Maheshwar Dahagama,
5-1-270 Krishna Nagar Street,
Jyothi Nagar Post Office,
Jyothi Nagar, Karim Nagar District
Telengana- 505 215

...Appellant(s)

Versus

1. Union of India,
Through the Secretary,
Ministry of Environment and Forest & Climate Change,
Indira Paryavaran Bhavan, Jor Bagh Road,
Ali Gunj, New Delhi- 110003
2. Telangana State Pollution Control Board,
Through the Member Secretary,
A-3, Paryavaran Bhavan, Sanath Nagar
Hyderabad,
Telangana- 500018
3. M/s National Thermal Power Corporation Limited,
Through the Managing Director,
NTPC Bhavan, Scope Complex, 7,
Institutional Area, Lodhi Road,
New Delhi- 110 003

...Respondent(s)

For Appellant(s):

Mr. Yogeswaran

For Respondent(s):

Mr. Syed Nurullah Sheriff for R1
Mr. T. Sai Krishnan through Mr.
Lakshminarasimhan for R2
Mr. G. Masilamani, Sr. Counsel and Mr. Mohan
for M/s King & Patridge for R3

Judgment Reserved on: 3rd February, 2021.

Judgment Pronounced on: 27th May, 2021.

CORAM:

HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE MR. SAIBAL DASGUPTA, EXPERT MEMBER

Whether the Judgement is allowed to be published on the Internet - Yes/No

Whether the Judgement is to be published in the All India NGT Reporter - Yes/No

JUDGMENT

Delivered by Justice K. Ramakrishnan, Judicial Member.

1. The above appeal has been filed challenging the Environment Clearance granted to the 3rd respondent National Thermal Power Corporation Limited (NTPC) for starting a new thermal power plant having a capacity of 2x800MW by first respondent as per proceedings no. J-13012/112/2010-IA.II(T) dated 20.01.2016 at Ramagundam village and Mandal, Karimnagar district Telangana. According to the appellant, the third respondent had originally applied for a new coal-fired Thermal Power Plant at Ramagundam village and Mandal, Karimnagar district Telangana for a capacity 2x600 MW and on that basis, originally, Terms of Reference was issued by the first respondent for conducting Environmental Impact Assessment Study on 16.09.2014. Thereafter the 3rd respondent enhanced the generation capacity of power plant to 2x800 MW and sought for amended Terms of Reference and the same was issued for the revised capacity on 12.12.2014. The project proponent, according to the appellant, had claimed to have collected data for the above project for the period between December, 2014 and February, 2015 and draft Environmental Impact Assessment report was prepared. Thereafter, the public

consultation was organised on 23.05.2015. In fact the present project was rejected by Ministry of Supply originally on 10.07.2015 and subsequently on re-submission, the proposal was accepted by the Ministry of Supply on 13.10.2015 as per annexure A-2. Thereafter the project was appraised by the Expert Appraisal Committee during its 45th Meeting held on 29th -30th October, 2015 and on appraisal of the same, the Committee wanted more details relating to the above project and required them to prepare a further report on that aspect and submit the same for the purpose of reconsideration and the decision was deferred to another date and following information was sought by the Expert Appraisal committee from the Project Proponent in the above meeting as evidenced by annexure A-3 Minutes.

**2. After detailed deliberations, the committee sought the following information/documents which was either not available in the EIA/EMP report or not appropriate. Accordingly, the proposal was deferred.*

- I. Commitment and Action Plan for compliance to the Ministry's Notification dated 02.01.2014 regarding use of coal with ash content not exceeding thirty-four per cent, on quarterly basis.*
- II. Detailed note on rise in temperature in consultation with IMD. The data shall be as old as possible.*
- III. Certification from the concerned authority that the site is not located on economically feasible mineable mineral deposit (ToR 15)*
- IV. Occupational Health and epidemic health disorders survey of the study area.*
- V. The Quality of effluent from ash pond vis-a-vis the River water quality. The impact on agricultural fields in terms of heavy metal in food chain and ground water/soil.*
- VI. Plan for recycling and reuse of ash pond effluent after minimizing the discharge of cooling water blow down etc. to the ash pond. No untreated ash pond effluent shall be discharged.*
- VII. Detailed report on water drawl, water channels and diversion duly certified by the irrigation & Flood Control Department of the State Government.*
- VIII. Satellite map showing the existing green belt. Revised plant layout by maintaining thick three-tier green belt in minimum 33% area.*
- IX. Budgeted Action plan for the public Hearing issues.*

- X. Reply to the representation received by the EC, a copy of which was provided to the PP.
- XI. Revised AAQ modelling results.
- XII. Commitment for installation of FGD.
- XIII. Detailed document/permission for tapering coal linkage.
- XIV. All the discrepancies, if any, in the EIA/EMP shall be addressed and submitted.*

2. Thereafter it was again considered in the 46th meeting held on 26th and 27th November, 2015 wherein the Expert Appraisal Committee had recommended the project on the following conditions evidenced by annexure A-4 which reads as follows:

* Based on the information/document provided by the Project Proponent and clarification provided during detailed discussions held on all the issues, the Committee recommended the project for environmental clearance subject to stipulations of the following additional specific conditions:

- I. As the satellite Imagery submitted was not clear, a clear satellite imagery shall be submitted to the Ministry and its R.O. Further, latest authenticated satellite imagery shall be submitted on an annual basis to the Ministry and its R.O. to monitor the alterations of the area.
- II. The PP shall ensure compliance to the Ministry's Notification dated 02.01.2014 regarding use of coal with ash content not exceeding thirty-four per cent, on quarterly average basis. This is to be ensured by incorporating a condition in the MoU/FSA with CIL etc. Also, if required, coal washery shall be installed.
- III. The Sulphur and ash content of coal shall not exceed 0.5% and 34% respectively. In case of variation of quality at any point of time, fresh reference shall be made to the Ministry and suitable amendments to the environmental clearance will have to be sought.
- IV. FGD shall be installed as the emissions are found to be almost reaching threshold limit of 80 unit (for the worst scenario) and also considering the cushion w.r.t NAAQS.
- V. NTPC shall endeavour to enter into MoUs with NHAI, Associations of cement industries and Municipal Authorities for ensuring ash utilisation in roads construction and cement manufacturing.
- VI. The PP shall examine possibility of relocating the ash pond. In case, the relocation of ash pond is not possible, precautionary measures by providing maximum green belt between ash pond and reservoir etc. shall be undertaken.
- VII. Study shall be conducted regarding the impact on agricultural fields in terms of heavy metal in food chain and ground water/soil for a period of one year and the report submitted to the Ministry.
- VIII. The Ash water Re-circulation system (AWRS) shall be immediately installed for the existing TPP. Till that time, the ash pond effluent shall not be discharged into agricultural fields etc.
- IX. The PP shall enhance the green belt of the existing TPP in compliance to the earlier EC conditions etc.
- X. Long term monitoring of temperature shall be undertaken on-site and off-site of the TPP, as data of decrease in temperature

needs to be verified. Further, requisite corrective action shall be taken based on the findings of the monitoring.

- XI. *As the data for the health studies was more than five years old, a fresh Occupational Health and epidemic health disorders survey of the study area (10km radius) shall be conducted and the report submitted to the Ministry and its R.O. within one year.*
- XII. *As committee, a minimum amount of Rs. 20 crores shall be earmarked as capital cost for CSR activities and the recurring cost per annum shall be as per the CSR policy of GOI till the operation of the plant commences.**

3. Thereafter it was forwarded to the first respondent MoEF&CC and the MoEF&CC had considered the recommendations of the Expert Appraisal Committee and decided to grant clearance for the project as per their letter annexure A-1 dated 21.01.2016. The Appellant had challenged the issuance of the Environment Clearance on following grounds:

- i. The Expert Appraisal Committee on its 46th meeting had mechanically recommended the project though the project proponent had not complied with the earlier directions issued by them as per their 45th Meeting wherein they have sought for certain clarification and further information. They have recommended the project with conditions to fulfil the earlier clarification sought for from the project proponent and thereafter the project was considered by the MoEF&CC but the MoEF&CC had also mechanically accepted the recommendations without getting further details as directed by the Expert Appraisal Committee for consideration and mechanically granted clearance.
- ii. The project proponent had not produced any coal linkage with any coal supply unit or mines to ascertain the nature of coal which they were expected to use. They had also not conducted any proper study regarding the radioactivity and heavy metal analysis of the coal to be used from which the fly ash is likely to be produced by using the coal as fuel. Such a report was not available before the Expert Appraisal Committee for consideration so as to ascertain the probable

pollution load that is likely to be created by this project on its establishment in a place which is already crowded with number of thermal power plants and other polluting industries. It is also seen from the documents produced that the estimated annual requirement of coal to be 8 million tonne per annum and proposed to secure the same from nearby Singareni Collieries Company Ltd (SCCL) and obtained the confirmation of supply for 2MW linkage arrangement with them but the Expert Appraisal Committee in its 45th meeting had insisted on confirmed fuel linkage for complete fuel requirements. Subsequently during the next meeting namely 46th held on 26-27 November, 2015, NTPC had submitted letter dated 06.11.2015 to the Expert Appraisal Committee obtained from General Manager Coal India Limited office Kolkata to Western Collieries limited Nagpur which interaila stated that NTPC has been granted Mandakini-B Coal mine in the State of Odisha and this has been produced for the purpose of proving that they have coal linkage with Mandakini-B coal mine in Odisha. They have not obtained this coal linkage at the time of conducting environmental impact assessment study and so there was no material available before the Expert Appraisal Committee regarding the probable pollution that is likely to be caused on account of the coal being used by the project proponent, and there was no radioactivity or other heavy metal analysis conducted. Even in the letter produced by the Project proponent, it was not clear as to whether they will be getting the entire supply from the particular mine. Further it was against the guidelines given by MoEF as per their O.M dated 19.04.2012 regarding the production of coal linkage arrangement not necessary at the time of preparing the draft EIA but at the time of appraisal by the Expert Appraisal Committee.

- iii. The ambient air quality study was not properly conducted. The modelling ambient air quality prepared was not

representing the real status in that area. Though as per the Terms of Reference, they will have to conduct the ambient air quality analysis between 10 and 15 kms radius from the project area but they have conducted the study only within a distance of 10km and though 10 monitoring stations were to be located for base line data collection on noise and air parameters but they have only located 4 monitoring stations for collection of base line data of ambient air quality which is against the normal norms. The Ambient air quality that has been produced by the Project proponent is not correct as is evident from the air ambient quality data collected by M/s Kirloskar Consultants Ltd, Pune during the period April, 2011 to April, 2012 which showed different Sulphur dioxide (SO₂) content in the air quality which is higher than the sulphur quantity shown by the project proponent. Same is the condition in respect of base line data provided in particulate matters as well. Considering the nature of location of the project, the ambient air quality data given by the project proponent could not be said to representing the real status as even according to the Study conducted by Central Pollution Control board, Ramagundam is a critically polluted area and ambient air quality in that area is worse which requires further improvement. Further no cumulative impact ambient air quality assessment was conducted considering the total pollution that is likely to be emitted from the industries situated within the distance of 15km. They have only concentrated on the specific project which is not correct. Further the data collected by FCI for their project more or less during the same period showed a different data in respect of particulate matters, Sulphur dioxide and Nitrogen dioxide. These aspects have not being properly considered by the Expert Appraisal Committee and other authorities.

- iv. There was no proper cumulative impact assessment of ambient air quality done especially when it is a high polluted

industrial cluster. Hydro-geological impact and impact on ground water, surface water etc have not been properly assessed. Further, there was no proper study conducted in respect of Zero Liquid Discharge (ZLD) claimed by the project proponent as during monsoon they were permitted to discharge the treated water into Godavari River which itself is being polluted on account of other untreated discharge of different types of effluents including sewage water. There was no study conducted as to what would be the impact of such discharge on Godavari River and since it was Zero Liquid Discharge unit, according to the project proponent, no further study in respect of effluent treatment was conducted.

- v. There was no proper health impact study conducted in that area. In fact, the project proponent was relying on old health report regarding that area which was even commented by the Expert appraisal committee and they wanted a fresh health assessment but in fact, they had not complied with the same and in spite of that, with the same recommendations, the EAC had recommended the project and without making any modifications, the MoEF&CC also accorded the clearance for the project.
- vi. Further there were lot of non-compliance regarding the things to be elicited on the basis of the Terms of Reference and though some of these aspects were noticed by the Expert Appraisal Committee and wanted further report but the same had not been complied with. Further nothing was mentioned about the non-compliance of many of the environmental conditions by already existing thermal power plants and what are the remedial measures undertaken by them to avoid such possible violations by this unit but they had simply stated that they were green project and as such there was no study need be conducted regarding this aspect.
- vii. There was no proper application of mind either by the Expert Appraisal Committee or by the MoEF&CC before

recommending and issuing the clearance. No proper Corporate Social Responsibility (CSR) fund has been provided.

4. So according to the appellant, Environmental Clearance granted is vitiated by the basic principle of new appraisal and non-application of mind on environment issues and so they prayed for setting aside the Environment Clearance granted.
5. The first respondent filed reply affidavit contending as follows:

The appeal is not maintainable. The Environmental Clearance dated 20.01.2016 was granted in favour of the project proponent after following the due procedure laid down under the Environmental Impact Assessment (EIA) Notification, 2006 and amendments thereafter made and considering the impact of the project on environment imposing necessary conditions. The Terms of Reference for carrying out EIA study and preparation of EMP (Environment Management Plan) for the proposal (2x600 MW) asked for by the project proponent was accorded by the MoEF&CC on 16.09.2014 and amended ToR for revised capacity of 2x800 MW was accorded on 12.12.2014. The baseline data for EIA/EMP was collected during December, 2014-February, 2015 and the final EIA/EMP report after conducting public hearing on 23.05.2015 was submitted to MoEF&CC for consideration of Environmental Clearance. The Expert Appraisal Committee (EAC-Thermal Power) had appraised the proposal in detail in its 45th and 46th meeting held during 29th -30th October, 2015 and 26th- 27th November, 2015 respectively. The additional

specific conditions recommended by the EAC inter-alia, include installation of FGD, MoUs for ash utilization, compliance of existing Thermal power plant (TPP) to the Environment clearance conditions, long term monitoring of temperature on-site and off-site, occupational health and epidemic health disorders survey of the study area etc., minutes of which were produced by the appellant themselves annexed as A-3 and A-4. The member Secretary of Expert Appraisal Committee had only sought essential details from the project proponent on 10.07.2015 and the same were subsequently submitted and after evaluating only, the project was recommended by the Expert Appraisal Committee with certain conditions. The Expert Appraisal Committee had appraised with all the requisite studies undertaken for EIA/EMP by accredited consultant as per the ToR prescribed the studies recommended by EAC/MOEF&CC as part of additional specific conditions in Environmental Clearance were not considered mandatorily in the EIA/EMP prior to Environmental Clearance. Further depending on the outcome of the studies in para 7 of the Environmental Clearance, Ministry has reserved its rights to reverse the clearance if the conditions stipulated are not implemented to the satisfaction of the Ministry and the Ministry is also entitled to impose additional condition or modify the existing one if necessary. The proceedings of the public hearing was received from Telangana State Pollution Control Board submitted by the

project proponent to MoEF&CC and Expert Appraisal Committee and they had discussed the issue raised in the public hearing and considered the reply of the project proponent and the budgeted action plan was sought by the Expert Appraisal Committee from the project proponent. It is thereafter the same had been recommended by the Expert Appraisal Committee. The Environmental Assessment Report/Environmental Management Plan is based on sulphur content, ash content and GCV of 0.4-0.5%, 24.9-43.0% and 3,128-4,577 kal/kg respectively. The Characteristics of coal w.r.t to radioactivity content are provided in annexure-VIII of the EIA report. Further, the Environmental Clearance mandates that the sulphur and ash content of coal shall not exceed 0.5% and 34% respectively, FGD shall be installed and transportation of coal by rail were also imposed as conditions in the Environmental Clearance. So, According to the MoEF the Environmental Clearance granted does not require any interference and they prayed for dismissal of the appeal.

6. The 2nd respondent filed reply contending as follows:

The 3rd respondent got coal based power project with a production of 2600 MW in three stages. Stage 1 consists of unit I, II and III- 600MW (200MW each). Stage 2 consists of units IV, V and VI- 1500MW (500 MW each) and Stage 3 consists of Unit VII- (500MW). They have proposed to set up the Telangana Super Thermal Power Project 2x800 MW at the existing premises and had submitted ToR and draft EIA at the Regional office of the 2nd respondent board, Ramagundam on 15.04.2015 with a request to conduct public hearing for the proposed establishment incomplying with the procedure

prescribed in the EIA Notification, 2006, public hearing date was fixed as 23.05.2015 by the Collector and District magistrate, Karimnagar after making wide publicity regarding the same and thereafter public hearing was conducted on the date under the supervision of the Joint Collector and Additional District magistrate, Karimnagar at Zilla Parishad High School, TTS, Jyothi Nagar, Ramagundam. The public hearing was conducted after issuing proper notification in the newspapers like Deccan Chronicle, Andhra Jyothi and Sakshi dailies published on 23.04.2015 and 24.04.2015. The 1st respondent had granted the Environmental Clearance to the 3rd respondent on 20.01.2016 .As far as 2nd respondent is concerned their role is only in respect of conducting public hearing as contemplated in the EIA Notification, 2006 as amended from time to time and thereafter forward the proceedings with CDs prepared to the MoEF&CC for their consideration. After obtaining the Environmental Clearance, on the basis of application made by the project proponent, consent for operation was issued on 20.04.2016 of establishment of thermal power plant 2x800MW as per recommendations of the CFE order dated 20.04.2016 of the respondent Board evidenced by annexure-A2. According to them, there is not merit in the Appeal and they prayed for dismissal for the appeal.

7. The 3rd respondent filed reply affidavit contending as follows:

The Appeal is not maintainable. The Environmental Clearance was granted to the National Thermal Power Plant Limited and the name of the 3rd respondent shown in the cause title as National Thermal Power Corporation Limited has to be amended. None of the reason stated by the appellant in the Appeal Memorandum are sufficient to set aside the Environmental Clearance granted. The National Thermal

Power Plant was formed under the National Thermal Power Plant Corporation Limited in 1975 and it is a fully Government owned Company. It is operated as a public sector undertaking under the Ministry of Power, Government of India. Thereafter the Corporation was given the status of the company and thereby it was named as NTPC limited and it is India's largest energy conglomerate incorporated to accelerate power development in India. NTPC limited became a Maharatna Company in May 2010, one of the only four companies to be awarded the status. NTPC ranked 431 in 2015 Forbes Global 2000 ranking of the World's largest companies. The total installed capacity of NTPC Limited is 47,178 MW (including JVs) with 18 coal based and 7 gas based stations. NTPC has set a target to have an installed power generating capacity of 1,28,000 MW by the year 2032. They were operating its plants at high efficiency levels. They have got only 17.73% of the total national capacity. It contributes 24% of the total power generation due to its focus on high efficiency. Due to economic liberalization and increase in various development activities, the need for power has increased manifold and several parts of the country were affected by power shortages. Development and growth can co-exist only if adequate and sufficient power is available for the same. The Supreme Court of India while upholding the establishment of the Kudankulam Atomic Power Station, in (2013) 6 SCC 620 has concluded that nuclear energy was a viable source of energy and necessary to

increase the Country's economic growth. When nuclear energy with all its risk itself was permitted to be established, the Thermal Power Plant for which the Environmental Clearance was accorded on 20.01.2016, which was the subject matter of the present appeal should be clearly and absolutely accepted as a viable power plant.

8. Further the Hon'ble Supreme Court in Occupational Health & Safety Association vs Union of India & Ors reported in (2014) 3 SCC 547 has taken note that India is one of the largest coal producing country in the world and it has numerous coal fired thermal plants (CFTEPS) requiring nearly 440 millions tonnes of coal per year. India is about 130 CFTEPS, thermal project generates about 2/3rd of the electricity consumed in India. While 54.3% of demand energy is met by coal-fired power generations which was explained in (2014) 3 SCC 547 (Supra). Further after the united Andhra Pradesh was divided into Andhra Pradesh and Telangana by promulgating Andhra Pradesh Re-organisation Act, 2014 and as part of infrastructure requirements 7, NTPC was required to establish a 4000 MW power facility and it was included as Item 7 of the 13th schedule of the Andhra Pradesh Re-organization Act, 2014 which reads as follows:

"7. NTPC shall establish a 4000 MW power facility in the Successive State of Telangana after establishing necessary coal linkage."

It was on that basis that the NTPC had applied for Environmental Clearance for their power plant having a

capacity of 1600 MW (2x800 MW) within the existing plant area.

9. It is also contended that they had taken all super critical technology for optimizing the efficiency and drastically reducing emissions of them which are as follows:

- a. Reduced fuel costs due to improved plant efficiency;
- b. Significant reduction in CO₂ emissions, improving environment;
- c. Plant costs comparable with sub-critical technology and is less than other clean coal technologies
- d. Much reduced NO_x SO_x and particulate emissions; and
- e. Can be fully integrated with appropriate CO₂ capture technology.

10. The Environmental Clearance has been granted on 20.01.2016 for the new plant which would be of super critical technology and its advantages over other technologies including on emission levels is illustrated as below:

- a) *Super critical technology has many advantages over sub-critical technology. Plants with super critical technology have better efficiency due to higher steam parameters resulting in lesser coal consumption than the sub-critical plants. Lower amount of coal burnt in the power plant for same amount of electrical power being produced means lesser CO₂ and SO_x emissions. Carbon-dioxide emissions, a major cause of concern today due to its global warming potential causing climate change, are reduced. This has been a major factor for adoption of supercritical technology. In other words, supercritical power plants are highly efficient plants with best available pollution control technology, reduces existing pollution levels by burning less coal per megawatt-hour produced, capturing vast majority of the pollutants. This increases the KWh produced per kg of coal burned, with fewer emissions.*
- b) *Due to the above mentioned techno-economic benefits along with its environment-friendly cleaner technology; more new power plants are coming-up with this state-of-the-art technology. As environment legislations are becoming more stringent, adopting this cleaner technology has benefited immensely in all respects. As LHV (lower heating value) is improved (from 40% to more than 45%); one percent increase in efficiency reduces by two percent, specific emissions such as CO₂, NO_x, SO_x and particulate matters. "Supercritical" is a thermodynamic expression describing the state of a substance where there is no clear distinction between the liquid and the*

gaseous phase (i.e. they are a homogenous fluid). Water reaches this state at a pressure above 22.1 MPa. The efficiency of the thermodynamic process of a coal-fired power describes how much of the energy that is fed into the cycle is converted into electrical energy. The greater the output of electrical energy for a given amount of energy input, the higher the efficiency. IF the energy input to the cycle is kept constant, the output can be increased by selecting elevated pressures and temperatures for the water-seam cycle.

- c) Moreover, fuel flexibility is not compromised in Once-through Boilers. A wide variety of fuels have already been implemented for once-through boilers. All types of coal as well as oil and gas have been used.*
- d) Capital cost of a super critical plant is higher than that of sub-critical plant. Higher efficiencies than conventional sub-critical units help significant CO₂ reductions. The objective of power plants within today's market boundaries is more than ever to ensure high efficiency (to reduce the environmental impact as much as possible) while at the same time to increase their economics in competition to existing alternatives. The development of an economical and efficient concept needs to look at the steam turbine all other main components like boiler, flue gas cleaning equipment and the optimization of the water-steam-cycle as main parts for the optimization.*

11. They denied the allegations that on account of existing 2x600MW facility of thermal power plants causing pollution in that area, this plant will only increase the pollution load and ambient temperature and due to that respiratory ailment are common amongst others. They denied the allegation that borewell in the region have been contaminated on account of the operations of the thermal power plants. They will functions only within the permissible level and it will be an environmental friendly project. They have conducted all necessary cumulative impact, rise in temperature, baseline environment, social impact etc. by appointing accredited agencies and the same have been considered by the Expert Appraisal Committee of the 1st respondent-Ministry and it is only thereafter that the same had been approved. Further, the Expert Appraisal Committee of the 1st respondent-Ministry is having experts in these fields and they had considered all the aspects critically before

recommending the project with conditions required for minimising the pollution if at all that is likely to be caused on functioning of the unit. The project is intended to cater the needs of the power required for the newly established Telangana State and this is one such unit which has been contemplated for catering the need of the State. The requirement made by the Expert Appraisal Committee in their 45th Meeting held on 29th -30th October had been complied with by the 3rd respondent and only after getting satisfied with the same, they had recommended the project. The allegation that both the Expert Appraisal Committee and MoEF&CC had mechanically recommended the project without application of mind is not correct. Public hearing was conducted successfully and all the objections raised in the public hearing were considered by the Expert Appraisal Committee. The allegation that the reports were not made available in the local language is not correct. They have summarised the discussions held in the public consultations in Telugu and thereafter it was translated to English version by Telangana State Pollution Control Board and subsequently it was forwarded to MoEF&CC by Environmental Engineer of Telangana State Pollution Control Board. So the allegation that MoEF&CC had no opportunity to understand the discussions in the public hearing as it was recorded in Telugu is not correct. The Pollution data was collected at the worst season and considering the existing units in that area evidenced by annexure R3/1. Further the actual

concentration of pollutants expected during the operation phase of the project would be much less than the predicted values. At the time, when the proposals were made regarding the necessity in change of coal source, the following have to be considered:

- i. The conceptualization of power project which includes site selection, arranging inputs like land, water and fuel, preparation of Feasibility Report (FR), environmental Impact Assessment (EIA) and other studies, various approval process constitute as long drawn process spanning over 2 years. All the details are not available in the beginning and parallel activities are undertaken for various studies and approvals to save the time.
- ii. It is submitted that the coal source and coal characteristics were changed during various stages of appraisal of the project for Environmental Clearance (EC) during Expert Appraisal Committee (EAC) meeting in order to comply with the Ministry of Environment and Forest & Climate Change (MoEF&CC) Office Memorandum (OM) dated 01.11.2010 which mandates that Thermal Power Project with coal sourcing from dedicated coal blocks shall be considered for Environmental Clearance (EC) only after the firm coal linkage is available and status of Environmental Clearance /Forest Clearance (EC/FC) of the linked coal mine is known. The true copy of Ministry of Environment and Forest & Climate Change (MoEF&CC) Office Memorandum (OM) dated 01.11.2010 is being annexed hereto and marked as Annexure-R3/2.
- iii. The coal requirement for the project is estimated as 8.0 million tonnes per annum (MTPA) and there is no change in the quantity requirement throughout the appraisal.
- iv. It is submitted that the coal quality parameters for western Coalfields Ltd. (WCL) as considered as tapering linkage for Telangana STPP Stage-I (2x800) MW is being annexed hereto and marked as Annexure-R3/3.

12. There is no change in the quantum of coal likely to be used regarding the change in coal source and coal quality and there was variation in coal source and coal characteristics during course of appraisal of the project. Based on the available coal commitment with South Eastern Coalfields Limited (SECL) vide its letter dated 21.02.2015 for 2 million tones per annum evidenced by annexure-R3/4, the draft Environmental Impact Assessment report was prepared. However, latter the 3rd

respondent approached Ministry of Power for coal linkage for the project following which the Ministry of Coal vide its office memorandum dated 10.09.2015 has allotted mandakini-B coal mine block in Odisha for the proposed Telangana State Thermal Power Plant evidenced by annexure- R3/5. Further in pursuance to expedite the process of project implementation, Ministry of Coal vide its letter dated 21.09.2015 evidenced by annexure R3/6 had also accorded in-principle approval for grant of tapering linkage from Coal India Limited for Telegana State Thermal Power Plant, stage -I (2x800 MW) as an exceptional case till the operation of Mandakini-B coal mine block. The Expert Appraisal Committee considered the project during its 45th meeting wherein it was suggested to submit the detailed document/ permission for coal linkage for the project evidenced by annexure-R3/7 minutes. Thereafter the 3rd respondent submitted all the necessary details sought for regarding the tapering coal linkage for the Telangana State Thermal Power Plant Stage-I from the Western Coalfield Ltd. (WCL) allotted by Coal India Limited vide its letter dated 06.11.2015 evidenced by annexure R-3/8. Further it was re-appraised in the 46th meeting of the Expert Appraisal Committee held on 26.11.2015 based on coal characteristics and emissions based on details collected from Western Coalfield Ltd and was recommended for Environmental Clearance after lengthy deliberations evidenced by annexure R-3/9. The uncertainty in coal linkage as sought to be projected by the

appellant, does not have any impact on Environmental Impact Assessment Report as impact assessment study had been carried out based on the worst case scenario i.e. worst fuel characteristics, worst meteorological condition and worst operating conditions. Further at the stage of public hearing, there is no necessity for producing the coal linkage and it has to be produced only at the time of consideration of the project by the Expert Appraisal Committee as has been contemplated in the official memorandum dated 19.01.2011 issued by MoEF evidenced by R3/10. After considering these aspects the Ministry also came with another proposal that 3rd respondent can change coal source or characteristics at any stage of project implementation after prior approval of Ministry evidenced by the conditions provided in annexure R-3/11 Environment Clearance. All the coal linkage agencies with whom the 3rd respondent had entered into have assured that they would provide the necessary coal depending upon the availability and they were also approaching the coal companies for the purposes of getting the proximate analysis report including heavy metals and radioactivity contents in respect to the coal proposed to be supplied to the project. The same will be produced once the project is started receiving coal from Western Coalfield Limited. They have assured to supply coal quality in comparison with the inferior quality of coal of South Eastern Coalfields as considered in the draft environmental Impact Assessment Report. The allegations that they have prepared the impact

assessment report without assessing real state of affairs and authorities have in haste considered the same and issued the clearance are not correct and hence denied. The ambient air quality was conducted at the worst available period and the National Ambient Air Quality Standards will be maintained and they will install all necessary mitigative measures in order to control all air emission/pollution from the project and they will comply with the latest emission standards for the Thermal power plant dated 07.12.2015 evidenced by annexure R3/13, Government Gazette Notification. The tentative coal linkage has been mentioned in annexure R-3/14 application for Environmental Clearance submitted by the 3rd respondent. Further after the screening, they had also produced necessary coal linkage documents evidenced by annexure -R3/15 before the Authorities. They had complied with all the guidelines provided by the MoEF&CC in respect of these aspects and necessary reports have been produced. Only on that basis that clearance was granted and they will have all mitigative measures and also comply with the latest Ministry's emission standards for thermal power plant evidenced by annexure - R3/13. The allegations that they have made suppression of material facts and made misrepresentation regarding the ambient air quality are not correct. The Ambient Air Quality monitoring was done by a reputed QCI-NABET accredited consultant as per prescribed conditions of Terms of Reference issued by the Ministry vide their letter dated 16.09.2014 and

amended letter dated 12.12.2014 under the supervision of experienced scientists and experts and the Terms of Reference issued is produced as annexure R-3/16. All the matters that has been provided in the Terms of Reference had been minutely considered by the accredited agencies and the same had been reflected in the Environment Impact Assessment Report. The comparison chart produced by the appellant to discredit the creditability of the Ambient Air Quality test conducted by 3rd respondent cannot be accepted as that had been done at different stages and there would be some difference if tests were conducted at different levels and different timings and also depending upon the locations of the project area. Consultancy work for undertaking Environmental Impact Assessment study was awarded to QCI-NABET accredited consultant as per annexure R-3/17 letter of award. The present establishment of the thermal power plant was necessitated on account of the bifurcation of Andhra Pradesh as per the Andhra Pradesh Re-organisation Act, 2014 produced as annexure R-3/18. Being a responsible corporate agency, they will carry out all the environmental norms in its strict-sense. Further, the allegations that they had not conducted ambient air quality in respect of cluster industries within the sphere of 15 kms were not correct and hence denied. In fact the 15 kms radius is not a mandatory one and that will depend on the nature of the project and the area in which this has been located etc. Normally the study ought to have been conducted for a radius

of 10 kms and that has been properly conducted evidenced by annexure-R3/1. The last emission notification for thermal power plant are as detailed below:

- i. *Installation of high efficiency Electrostatic precipitators (ESPs) to limit the particulate emission below 30mg/NM³,*
- ii. *Twin flue stack of 275 m height for wider dispersal of remaining particulates and gaseous pollutants resulting in lower ground level concentrations.*
- iii. *Installation of Flue Gas Desulphurization (FGD) system for controlling and limiting SO₂ emission 100 mg/ Nm³ under all design conditions.*
- iv. *Installation of appropriate low Nitrogen oxide (NO_x) burners for controlled Nitrogen Oxide (NO_x) emission. Exploring the feasibility to install De-(NO_x) system such as Selective Catalytic Reduction (SCR) system will be taken up. It will be installed in boiler for controlling and limiting Nitrogen Oxide (NO_x) emission 100 mg/Nm³ under all design conditions.*
- v. *The ash disposal scheme for fly ash envisages collection of fly ash by dry ash extraction system (DAES) to the storage silos and residual fly ash transported through High Concentration Slurry Disposal (HCSD) system, which uses thick-viscous-high concentration slurry of ash for disposal which gets solidified within 1-2 days, thereby minimizing the possibility of fugitive emission. Further, under the above disposal system there is no risk of ash flying in the wind due to its being cemented.*
- vi. *Dust suppression and extraction system shall be installed at coal handling plant area and ash handling plant to control fugitive dust emission.*
- vii. *Water spraying shall be done at all dust generation areas viz. The coal and ash handling areas.*
- viii. *Regular monitoring of ambient air quality parameters through three nos. Fixed Continuous Automatic Ambient Air Quality Monitoring Stations (AAQMS) as well as portable Ambient Air Quality Monitoring equipment.*
- ix. *Online continuous emission monitoring system in stack for all the flues.*
- x. *Extensive plantation and afforestation shall be undertaken in all available spaces.*

13. This is evidenced by Annexure R-3/19. Further most of the units mentioned by the appellant were not functioning specially the Fertilizer Corporation of India plant at Ramagundam as it was only at the revival stage and no Environmental Clearance was granted to that unit so far. It was undertaken by them vide their reply dated 16.11.2015 evidenced by annexure-R3/20 that once the Environmental Clearance was granted to the

Fertilizer Corporation of India, Ramagundam, the emissions data required would be carried out and modelling prediction would be submitted at that time. All possible pollution level are being considered and all necessary mitigative measures have been provided. They have conducted Geology and Hydrogeology study which is evidenced by annexure R-3/21 site survey annexed. The allegations regarding the ground water utilization and its impact on environment etc. as projected are not correct as hence denied.

14. The 3rd respondent is not going to extract any ground water during the construction phase and water requirement will be met from its existing balanced reservoir. So, there is no possibility of any impact on ground water on account of use of the same. They will adopt High Concentration Slurry Disposal system (HCSD) for disposal of fly ash wherein the ash slurry gets solidified and there is no free water as overflow or leachate and for bottom ash storage ash dyke will be designed with impermeable layer to avoid leaching into ground water so apprehension of the appellant that there is no proper handling of fly ash that is likely to be generated is without any basis. Further, the concentration of heavy metals by using Indian coal is very low and the ash water environment is always alkaline in nature. The quality of ground water in Ramagundam is not contaminated as alleged by appellant and is evident from annexure R-3/22. Since they are going to use concentrated system, there is no possibility of any discharging trade effluent

arises. Further, River Godavari is located at about 4km of aerial distance from the existing project area and they have envisaged a long term measure of disposal of effluent in a scientific manner by applying ZLD system. The Ambient Air Quality in that area is not as critical as projected by the appellant. The health study was conducted by M/s Poolucon Laboratories Private Limited, Surat within 10 km radius during the period 2008-2009 evidenced by annexure R-3/24. Further health report collected evidenced by annexure R-3/25 will go to show that there was no major endemic/epidemic diseases reported in that area. Further, they have undertaken certain health related activities under their Corporate Social Responsibility as follows:

- *Health related infrastructure provided at Kundanpalli and Sai Seva Samithi Government Area hospital, Godavarikhani, IRCS Mancherial etc.*
- *Regular monthly health camps are conducted at New Mogalpahad, Kundanpalli, mallialpali & PK Ramaiah Colony.*
- *School children health camps, seasonable health camps for the villagers are being conducted every year.*
- *Pulse polio camps are conducted twice in a year along with the National programme in the nearby villages.*
- *Special camps like: Eye camps, IOL operations, PCP camps (Distribution of appliances on free of cost), Homeo medicines distribution for chicken guinea, Diabetic retinopathy camps, Anemia Camps etc., are being conducted.*
- *Support to Government TB Hospital.*
- *DOT centre for the treatment of TB.*
- *Supporting state government in conducting family planning operations of more than 65,000 since 1982.*

15. Annexure R-3/25 will reveal the nature of health study conducted and the various health and medical check up conducted around the area. They have also produced executive summary in the reply submitted to the MoEF&CC vide their letter dated 16.11.2015 evidenced by annexure R-3/24.

Further, fresh Occupational Health Disorder survey has to be conducted and that has been stipulated as condition number (xi) in the Environmental Clearance granted which they will carry out periodically. They have also taken the following mitigative measures to control the emission, namely:

- i. *800MW units of Telangana are designed with super-critical technology which has higher efficiency compared to the conventional sub-critical technology based units. The super critical technology is relatively new to the Indian power sector, where till recently, plants were operating on sub-critical parameters. These super critical units have a cycle efficiency of around 4-5% more than conventional sub-critical technology and consume 5% less fuel for the same amount of energy generated. The results in consequent reduction in Carbon Dioxide (CO₂) foot print.*
- ii. *Installation of high efficiency Electro Static Precipitators (ESPs) to limit the particulate emission to 30 mg/Nm³*
- iii. *Twin flue stack of 275 m height for wider dispersal of remaining particulates and gaseous pollutants resulting in lower ground level concentrations.*
- iv. *Flue Gas Desulphurization (FGD) system will be installed to limit the emission of Sulphur Dioxide (SO₂) up to 100 mg/Nm³.*
- v. *The steam generator will be designed to limit the emission of Nitrogen dioxide (NO_x) up to 100 mg/Nm³ by adopting the appropriate burners/combustion system along with Selective Catalytic reduction (SCR) system.*
- vi. *The ash disposal scheme for fly ash envisages collection of fly ash by Dry Ash Extraction system (DAES) to the storage silos and residual fly ash transported through High Concentration Slurry Disposal (HCSD) system, which uses thick-viscous-high concentration slurry of ash for thick-viscous-high concentration slurry of ash for disposal which gets solidified within 1-2 days, thereby minimizing the possibility of fugitive emission.*
- vii. *Dust suppression and extraction system shall be installed at coal handing plant, ash handling plant and other dust prone areas in order to control fugitive dust emission.*

16. They have denied all the allegations made in the Appeal memorandum in para-wise reiterating that they have taken all necessary precautions and provided all necessary scientific mitigative measures to curb or mitigate the possibility of pollution. Further, they have produced Environment Clearance compliance reports certified by Regional office MoEF&CC evidenced by Annexure R-3/27 in respect of their existing units and every 6 months they are submitting the compliance report

as required under the Environmental Clearance granted for the respective projects. Several conditions have been imposed in the Environmental Clearance granted which they will comply with at the time the project is put in operation. They have also taken steps for installing of FGD and get MoU for ash utilization, conducting occupational health survey etc. as contemplated in the recommendations of the Expert Appraisal Committee. They have further contended that none of the grounds alleged by the appellant are sufficient to set-aside the Environment Clearance granted as all possible things have been considered by the authorities while issuing this clearance and they prayed for dismissal of the appeal.

17. The appellant has filed rejoinder to the reply submitted by the 3rd respondent denying the allegations made and contradicting the statement made by them in order to substantiate their claim that the Impact Assessment conducted was not proper.
18. The 3rd respondent also filed further rejoinder to the rejoinder filed by the appellant denying their allegations and reiterating their safety measures that have been taken for mitigating the circumstances of possible pollution that is likely to be caused on account of operation of the unit.
19. Heard the Counsel for the appellant Mr. Yogeswaran. Mr. Syed Nurullah Sheriff for 1st respondent, Mr. T. Sai Krishnan for 2nd respondent Mr. G. Masilamani, Senior Counsel along with Mr. Mohan for M/s. King & Patridge for 3rd respondent.

20. The Learned Counsel appearing for the appellant argued that most of the terms mentioned in Terms of Reference issued by the MoEF&CC for the project proponent to prepare Environmental Impact Assessment Report in respect of the project have not been complied with. Further there was no specific linkage of coal mentioned on the basis of which no impact assessment modelling of air pollution was conducted. Further subsequently they have changed the linkage of coal with another agency in respect of which no radioactivity or other heavy metal test have been conducted and made available to the Expert Appraisal Committee for their appraisal. Even the project proponent had produced the test analysis of coal only after Environmental Clearance was granted. So, neither the Expert Appraisal Committee nor the MoEF&CC had the opportunity to ascertain the impact of coal that is likely to be used by the project proponent on environment. Further unless such a report is made available for appraisal, any impact assessment report prepared regarding the probable cause of pollution and the preventive measures provided could not be said to be adequate or proper and should not be relied upon by the Expert Appraisal Committee as well as MoEF&CC while granting clearance. Further as per the Terms of Reference, the modelling of pollution has to be conducted within the radius of 10-15 kms considering the area of establishment and this being already industrial estate with lot of Thermal Power Plants and there are coal mines situated within the 15 kms radius, the

project proponent ought to have conducted ambient air quality analysis for the radius of 15 kms but they have conducted only 10 kms radius study which is against the Terms of Reference. Further most of the polluting industries which are available in that area have not been mentioned while conducting the ambient air quality in that area and the data given by the Project Proponent regarding the Pm10, SO₂ NO_x in the ambient air quality report do not reflect the real status when compared to some other industries report prepared for their project purpose namely M/s Kirloshkar Construction Limited and Fertiliser Corporation of India. Further this was not in tune with the ambient air quality published by the Central Pollution Control Board in respect of Ramagundam area in which the present project proponent's unit is also to be established. So the air quality modelling prepared by the project proponent is not proper. No fugitive emission study or impact of gypsum on environment and the impact of fly ash etc were not properly considered while preparing the environment impact assessment report. Further there was no proper aquatic study conducted regarding its impact on ground water. The Hydro geological impact assessment reports in the EIA report of proposed project do not represent the real issues. Further the project itself is situated in a water body which could not have been allowed. Further there was no impact assessment report conducted regarding the Zero Liquid Discharge system proposed. There are no materials given regarding the same as well especially when

during the monsoon season, they were permitted to discharge the treated effluent into the Godavari River and this may have some impact on the water quality of Godavari River and no study has been conducted in respect of the same. Even the ground water quality available in that area is contaminated with some heavy metals and if the appellant project is also proposed to be established there which is admittedly a red category industry of most polluting industry will have some impact on ground water quality and that will affect the health of the people. The project proponent had relied on the health report conducted during 2009 and they have not conducted any independent health study in this regard. The surface as well as ground water quality projected by the project proponent is not correct and does not represent the real status of the ground water as it is seen from the report of the Central Pollution Control Board regarding the water quality of Godavari River in Ramagundam area in their report of 2012 will go to show that it was highly polluted. There was no proper intake of water for the project purpose has been disclosed by the project proponent. They were permitted to take water from their own reservoir and they have not conducted any impact assessment regarding the availability of water for their purpose in a scientific manner. The air quality assessed was also not proper no cluster impact assessment was conducted in this regard especially when the project is situated in a highly polluted industrial estate. Further there was no proper application of mind on the part of the

Expert Appraisal Committee as well as the MoEF&CC in recommending project and issuing clearance. In the 45th meeting of the Expert Appraisal Committee of the Expert, decision on the proposal was deferred and they directed certain things to be clarified and produced and called for further reports but most of the reports were not produced by the project proponent and without considering the same the Expert Appraisal Committee had recommended the project with directions to produce the data which they wanted to be produced by the project proponent as per their decision in the 45th meeting. Further the same material were not produced before the MoEF&CC as well nut in spite of that project was approved and clearance was granted by the MoEF&CC incorporating the same conditions granting them time for producing the same as part of compliance of the conditions of producing compliance reports once in 6 months. Without getting those details, the appraisal cannot be said to be proper especially when it is a highly polluted industry and its impact on environment will be much more. Further there was no environment impact study relating to the FGD installation in the impact assessment study and neither the Environment Impact Assessment nor the MoEF&CC have bothered to appraise the same while considering the project. The Expert Appraisal Committee as well as the MoEF&CC has not considered the non-compliance of the conditions in the Terms of Reference while preparing the Environment Impact

Assessment. So, According to the Learned Counsel, there was no proper environment assessment conducted and there was no proper application of mind and as such the same is liable to be set aside. The Learned Counsel had relied on decisions reported in T.Murganadan & Ors vs. Union of India & Ors., Appeal No. 50/2012, Rudresh Naik vs. Goa Coastal Management Authority & Ors Appeal No. 20/2013, Samdha vs. Union of India & Ors. 2014 All India NGT Reporter 1 South Zone page 1 of the National Green Tribunal and Namit Sharma vs. Union of India (2013) 1 SCC 745, Ravi yashwant Goel vs. Collector 2004 SCC 407 Maharashtra State Board of Secondary Education vs. K.S. Gandhi (1991) 2SCC 716 for the proposition that if there is no proper application of mind either by the Expert Appraisal Committee or by the issuing authority and the clearance was granted on improper assessment of wrong material, then the clearance granted is bad in law and the same is liable to be set aside on that ground.

21. Learned Counsel appearing for the MoEF&CC submitted that all necessary documents have been verified and when clarifications were required, they were sought by the Expert Appraisal Committee and it is only thereafter that the Expert Appraisal Committee, on satisfaction, recommended the project with specific conditions which were imposed by the issuing authority, namely, MoEF&CC and then only the clearance was granted. Further, necessary conditions on precautionary principle to mitigate the possibility of pollution on account of

establishment of this unit have been imposed and only thereafter, the same has been granted. So the grounds alleged are not sufficient to set aside the clearance granted as it is issued after complying with all the conditions prescribed in accordance with law.

22. Learned Senior Counsel appearing for the project proponent has argued that the environmental impact assessment report was prepared by the accredited expert body on the basis of the Terms of Reference issued strictly in accordance with law taking into consideration all probable possibilities of pollution and providing necessary mitigation circumstances and the 3rd respondent had committed itself to implement the same to protect the environment. The study of coal which is intended to be used is the worst coal that has been taken for the propose of study and it is on that basis the report has been prepared. The Ambient Air Quality modelling was conducted strictly in accordance to law, with the guidelines issued in this regard. The Study will have to be conducted within a radius of 15 kms is not mandatory as contended and also there is no provision regarding number of locations on the basis of which the study will have to be conducted as well. The locations were selected on the basis of the wind directions taken into consideration the possibility of pollution being caused on account of operation of the unit if any. Further all the operating industries were taken into consideration for conducting the study within 10 kms radius. The Ambient Air Quality for one season selecting winter

season for collecting the primary data which is a worst season in which the pollution load will be more and secondary data were collected for the remaining period and modelling was conducted on that basis. Further, as regard the rise in temperature is concerned, the data available for 50 years were taken from the Indian Meteorological Department (IMD) for the purpose of considering rise in temperature within the radius of 10 km to arrive at probable temperature rise that may be caused by the present unit on their operations and it was found that over a period of years there is decrease in temperature of 0.3degree Celsius on account of mitigative measures that have been taken and green belt developed in and around this area. So, there will not be any specific impact on account of the same. Further, the data collected by M/s Kirloskar Construction Limited and Food Corporation of India are on different locations and for the entirely different period. Though, there may be some variation in certain period for which necessary mitigative measures can be taken. As regards the Radio-activity study of coal to be used is concerned by virtue of environment clearance granted, subsequently, time has been extended for that purpose whenever change of coal is made and official memorandum also permitted such change of coal as such merely because the project proponent had linkage facility for supply of coal with the different agencies will not be a ground for setting aside the environment clearance. Since, there are going to adopt Zero Liquid Discharge System (ZLD), there is

possibility of effluent being discharged either into the water body or on ground and the water study that has been provided by the expert agency appointed by them for preparing environment impact assessment report will go to show as to how they are going to utilize the waste water being generated or effluent being generated without causing any environmental damage as alleged by the appellant. Since they do not intend to extract ground water for their construction purpose, there is no necessity to conduct any study of drawing of the water of ground water available in that area and impact thereon as alleged by the appellant. Separate arrangements have been made for getting water for their operation purpose. They proposed to take water from their own reservoir and as such there is no question of drawing of ground water arises. Though, in anticipation that during monsoon season, the excess treated effluent will have to be discharged into the Godavari River, it was mentioned so. But they have no intention to do the same as per their treatment system and ZLD system that they are going to use, There is no possibility of any excess water being available for discharge even during monsoon season as well.

23. The allegations made that the project is situated on a water body is also not correct because it is not a water body as alleged but occasionally there will be collection of water during monsoon for some period and after some time, it dried up and there is no permanent water body as envisaged is available in the project area. Though the FGD system was not necessary at

the time when environment impact assessment report was prepared subsequently, it is insisted in 2015 and they have made arrangements for providing ZGD facility and that has been mentioned in the explanation submitted to Expert Appraisal Committee and it is only after discussions with the project proponent and after satisfaction, the same has been recommended by the Expert Appraisal Committee which is in turn approved by the Ministry and issued environmental clearance. The disposal of fly ash etc was taken into consideration and necessary study has been conducted and mitigating circumstances also provided and because of the new technology that they are going to use, there is not possibility of any ash slurry being collected in ash pond and there will be only minimum fly ash available and bottom ash will be properly utilised as per the notification issued by the Ministry in this regard. The non-compliance noted by the Regional Office in respect of existing thermal plant of NTPC has been subsequently rectified by sending periodical reports and such possibilities are not available as regards the present unit is concerned as they are using latest technology which will make the operation of the unit more eco-friendly causing least pollution in that area. The health study was conducted by reputed agency and on the basis of the recommendation of the Expert Appraisal Committee in their 45th Meeting, they obtained necessary certificate from the Government Hospital Authority to show about the nature of health hazards caused in that area

between 2009 and 2015 and it was reported that neither any disastrous disease have been noted nor there is report of any serious illness caused in that area resulting in death as alleged by the Learned Counsel for the appellant. Further using their cooperate social responsibility, they are conducting lot of medical camps and running hospitals providing necessary health care facility and treatment to the people in the locality. They have taken steps to provide clean water by providing RO system in those areas as part of their social commitment. Further, they have undertaken detailed health study by engaging an agency for that purpose. Further all necessary precautions have been taken and they are committed to follow all the directions issued by the Ministry in respect of operation of the thermal power plant strictly. If there is possibility of any additional pollution being caused on account of the operations of the proposed unit of the 3rd respondent taking into consideration Sustainable Development Principle and also Polluter Pay Principle that has already been taken note by the authorities and the commitment made by the 3rd respondent to implement the same. There is no necessity to set aside the environment clearance as either setting aside or suspending the operation of the environment clearance will cause heavy loss as the 75% work has already been completed. The issuing authority has reserved rights to impose additional conditions if they feel that the operation of the unit is not in order and further modification is required to protect the environment and

as such the possibility of probable future anticipated pollution being caused during operations of the unit has also been taken into consideration by the issuing authority by reserving that right in them. So, according to the Learned Senior Counsel, there is no valid ground made out to set aside the environment clearance granted.

24. Considered the submission made by both the Counsels and also perused the written submission and documents produced.

25. The points that arose for consideration are:

- 1) Whether Environment Clearance granted is liable to be set aside for any of the grounds alleged by the appellant in the appeal memorandum or in the subsequent written submission submitted on their behalf?
- 2) Even if this Tribunal found that there are some deficiencies, what are the nature of directions that can be given by this Tribunal for allowing the unit to proceed with?
- 3) Relief and costs?

Points

26. It is an admitted fact that after the united Andhra Pradesh is divided into two states, namely, State of Andhra Pradesh and Telangana State and in order to meet the requirements of electricity supply in the State of Telangana, even in the Andhra Pradesh State Reorganisation Act, 2014 provision was made for Starting a new unit by National Thermal Power Corporation Limited and this has been included as item no. 7 in the Schedule attached to the Andhra Pradesh State Reorganisation Act, 2014. Further setting up a new thermal power plant using the natural resource of coal available in India to meet the

electricity supply for development activities as well as domestic purposes by a State cannot be said to be an act which is detriment to the environment. Merely because there is possibility of some pollution being caused on account of allowing thermal power plants to come up is not a ground to completely stopping coming up of such units which will only effect the economic growth of the State or Nation. Even under Section 20 of the National Green Tribunal Act, 2010 the Tribunal after considering these aspects apply the principle of Sustainable Development, Precautionary Principle, Polluter Pay Principle and Inter-generation Equity Principle etc. and only if this Tribunal found that coming up of such industry in spite of applying all such precautionary methods will have irreversible impact on environment, then only the Tribunal can prevent such units being coming up in a particular area. There is no dispute regarding the principle laid down in the decisions reported in *Namit Sharma vs. Union of India* (2013) 1 SCC 745, *Ravi yashwant Goel vs. Collector* 2004 SCC 407 *Maharashtra State Board of Secondary Education vs. K.S. Gandhi* (1991) 2 SCC 716 and *Samdha vs. Union of India & Ors.* 2014 All India NGT Reporter 1 South Zone page 1 of the National Green Tribunal.

27. In the decision rendered by the Principal Bench in Appeal No. 50/2012 *T.Murganadan & Ors vs. Union of India & Ors* had considered the necessity for conducting ambient air quality modelling and what are all the things to be looked into for the

purpose of conducting study and if there is any deficiencies in the same, what is the nature of directions to be given etc. The environment clearance granted to IL&FS Tamil Nadu Power limited based on imported coal was considered in that case in an Appeal filed earlier when the environment clearance was granted on 31.05.2010 was under challenge and the Tribunal by Judgment dated 23.05.2012 in (Appeal No. 17/2011) passed the following directions:

"However, we direct MoEF to review the EC based on the cumulative impact assessment study and stipulate any additional environmental conditions if required. Updated EIA report may be shared with Appellants and they may be invited in the EAC meeting and may be heard before a decision is taken by EAC/MoEF, till then the EC shall remain suspended."

28. Thereafter conducting fresh modelling of Cumulative Impact Assessment study, the Expert Appraisal Committee had recommended the project with certain conditions and a corrigendum was issued on 14.05.2012 by the MoEF&CC which was under challenge in that Appeal. In that Judgment this Tribunal had extracted para 19 and 20 of the Judgment 23.05.2012 passed in Appeal No. 17 of 2011 where it was observed as follows:

19. After duly considering the affidavits, additional affidavits counter affidavits, submissions made by the petitioner, respondents and the notes submitted by them before us, we do not agree with the approach of the Project Proponent to the extent that cumulative impact assessment cannot be worked out in the absence of data from other units. It is quite possible to assess likely impacts from the proposed coal based power plant (2x660 MW) of Cuddalore Power Company Ltd. the Nagarjuna oil Refinery Desalination plants and captive ports operating in the region, Even though, while filling the Form-1, column 9.4, it has been clearly stated by the project proponent that there will be cumulative effects due to proximity to other existing proposed projects with similar effects and a clear cut mention has also been made in the said column that the cumulative effects could be due to other power plants, Desalination Plant and Captive ports operating near the coast in the region but in fact, while preparing the EIA report,

no cumulative effect has been worked out by the consultant/project proponent.

20. In course of hearing, it was submitted by the Learned Counsel R-3 that due to non-availability of adequate data in respect of the proposed/existing industrial activities, cumulative impact assessment could not be done, we, however, do not subscribe to the submission of Learned Counsel as it is quite possible to work out likely cumulative impacts based on the capacity of the Coal based Power Plant (2x660MW), Nagarjuna Refinery etc., theoretically by applying mathematical models. The cumulative impact assessment exercise is considered necessary in this particular case, as Pichavaram Mangroves are located at a distance of 8 km, from the Southern boundary of the proposed power plant added to it the issues pertaining to the cumulative impacts were raised during the public hearing. As such, we strikingly feel keeping in view the precautionary principle and sustainable development approach, cumulative impact assessment studies are required to be done in order to suggest adequate mitigative measures and environmental safeguards to avoid any adverse impacts on ecologically fragile eco-system of Pichavaram Mangroves and to the biological marine environment Mangroves and to the biological marine environment in the vicinity. We, therefore, direct that cumulative impact assessment studies be carried out by the Project Proponent especially studies with regard to the proposed coal based power plant (2x660MW) of Cuddalore power Company Ltd. and the Nagarjuna Oil refinery and other industrial activities within a radius of 25km from the power project of M/s. IL&FS Tamil Nadu power co. Ltd. (3600MW) and be submitted to MoEF for review of Environment Clearance accorded on 31st May, 2010 in order to stipulate any additional environmental conditions and safeguards required for the protection and preservation of Pichavaram Mangroves and Marine environment.

29. This Tribunal had considered the necessity of Cumulative Impact Assessment Study and observed as follows:

....Our effort in this case is to understand what Cumulative Impact Assessment Study is. An enquiring mind would start with the existing law as well as scientific literature and it might be found in persuasive precedents available in the domestic law/literature on closely related topics and at a time in persuasive foreign decision/literature which may show how other jurisdiction have resolved the problem. The value of foreign judgment depends upon the persuasive force of their reasoning. Principles of sustainable development and the precautionary principle as envisaged in the Section 20 of NGT Act, 2010 have been developed in international law but have been domesticated into national laws throughout the world and so in India. Thus the knowledge on the subject can be borrowed with rather a free disregard for political boundaries and jurisdictional boundaries i.e. from all sources Indian or Foreign for bettering our understanding.

41. The European Commission in its guidelines for Assessment of indirect and Cumulative impacts as well as impact interactions defines Cumulative Impact as "Impacts that result from incremental changes caused by other past, present or reasonably foreseeable actions together with the project". CEAA guidelines give similar definition of Cumulative effects: these are changes to the environment that are caused by an action in combination with

other past, present and future human actions. The U.S Environmental Protection Agency defines it as "the combined incremental effect on human activity". These definitions are in no way conflicting with the concept of Cumulative Impact Assessment Study, the Project Proponent holds to be correct, as revealed from its submissions. Thus, the Cumulative Impact as the term indicates is not the impact of any project in isolation but it is a total impact resulting from the interaction of the project with other project activities around it- past, present and those to come up in future. It is a comprehensive view of the impacts resulting from all the projects- past, present or planned ones on the environment. Cumulative Impact may be same or different and those arising out of individual activities and tend to be larger, long lasting and spread over a greater area within the individual impact. Such studies are therefore commonly expected to:

1. Assess effects over a larger area that may cross jurisdiction boundaries;
2. Assess effects during a longer period of time into the past and future;
3. Consider effects on other eco-system components due to interactions with other actions, and not just the effect of the single action under review ;
4. Include other past, existing and future (reasonably foreseeable) action; and
5. Evaluate significant effect in consideration of other than just local and direct effects.

42. In the cases, *Bombay Dyeing & Mfg. Co. Ltd. Vs. Bombay Environmental Action Group and Ors.* (AIR 2006 SC1489) and *T.N. Godavarman Thirumulpad Vs. Union of India and Ors.* (2008(2) SCC 222) the Hon'ble Apex Court referred to the Principle of sustainable development and precautionary principle and stipulated the need to balance environmental concerns with those of developmental requirements. In no way the Hon'ble Apex Court discouraged the Cumulative Impact Assessment Study. This Tribunal in fact saw the need for Cumulative Impact Assessment Study in the areas where numerous projects were found located. Importance of Cumulative Impact Assessment Study was thus expressed by the Tribunal in *Sarpanch, Grampanchayat case (Sarpanch, Grampanchayat Tiroda vs. MoEF: Appeal No. 3 of 2011)* vide order dated 12.09.2011 in following words;

"Unfortunately, the cumulative effect of these four proposed projects was not considered to be of significance in causing environmental pollution in a small area. It appears an impression is sought to be created that there was only one application of Tiroda mine and at that time the Redi mine was not in operation. When number of mines are sought to be considered in a small area of Sawantwadi Taluk, the EAC was 34 expected to examine various aspects such as the cumulative impact of Air, Water, Noise, Flora Fauna and socio-economic aspects in view of large number of transport vehicles, plants and machinery etc. that would be operating in the area. It would have been appropriate, if a cumulative impact study was undertaken to take care of all existing/proposed mines within 10 km of the present project site apart from Redi mine, if any. Therefore, we are of the opinion that these aspects were not properly assessed and examined scientifically and, therefor, the EIA report requires to be re-examined afresh".

30. The Tribunal also found the deficiencies in the subsequent EIA report prepared on the basis of the earlier order passed by the same Tribunal and extracted the same in para 48-52 of that Judgement which reads as follows:

48. *In the instant case no modelling has been carried out for such future projects. RCEIA report under head 'impacts predictions' merely records that no significant impact is foreseen on land, water, noise, terrestrial ecology and socio-economic environment as the project activities are planned in a way that no adverse impact is likely to be caused and the existing industries were mandated to comply with the conditions of grant of EC/Consent. Academically, it appears to be a sound proposition but when one is expected to make studies regarding 39 cumulative impacts of all the existing as well as proposed industries, it is expected to collect actual field data regarding each of the existing industry and together with information on proposed industry interpreted its impacts on land, water, noise, terrestrial ecology and socio-economic environment. Nothing of such kind appears to have been done by the project proponent. Similarly, the report simply presents a fact that the mangroves in the coastal region of Tamil Nadu were seen in the study area only and in fact should have drawn attention to its significance. The census data as regards socio-economic environment is presented, which is of very little significance to carry out socioeconomic assessment of the existing and proposed projects in view of the fact that the industrialisation bring in huge migrant work force.*

49. *The fact was known to the project proponent that the project would be the main source of power for proposed PCPIR region. However, the RCEIA report has not taken cognizance of the fact apart from PCPIR region that includes desalination plants, ports and other such facilities essential for supporting it. It is revealed before us that the Tamil Naidu Government has sought and received approval for petroleum chemicals and petrochemical Investment region (PCPIR) in the Cuddalore area of 256.83 sq. km with a processing area of 104 sq.km and envisaged development of physical infrastructure such as roads, rail, air links, ports, water supply, power, chemical facilities, desalination plant, common effluent treatment plant, 40 etc. at the total cost of Rs. 13,354 crore. Thus undoubtedly costs burden on environment in the region, the due cognizance of which has not been taken in the report.*

50. *Accepting that the reference to 'NAAQS 2005' (National Ambient Air Quality Standard, 2005) have been mistakenly made in RCEIA report instead of NAAQS 2009, a question however remains as to why the ozone was not regarded as the parameter for impact assessment by the Project proponent when NAAQS 2009 includes it as one of the parameter for ambient air quality studies. It is scientifically acknowledged truth that Volatile organic compounds (VOC) react with Nitrogen Oxides (NOX) in air to generate Ozone and thereby causes increase in the levels of ozone; beyond certain limits which is injurious to the health.*

51. *Admittedly, there is no data collected as regards the ozone level in the report. Excuse for not collecting this data surface in the submission of the Respondent No. 3. Firstly, the Respondent No. 3 submitted that the formation of ozone in the presence of sunlight and oxidants like NOX is not a steady formation as it is not*

emitted through stack and therefore cannot be modelled. The Respondent No. 3 further submitted that the formation of ozone is near ground as a result of the leakages, and as such it is fugitive gas confined to the restricted areas with no wide implications on the population in the villages; and there is no valley like topography nor intense fog as found in the State Ohio, to generate fog for long hours 41 during summer time; and ground based inversion in Tamil Nadu region is only 15 per cent and 12 per cent during January and February respectively with non-existent or rare inversion in other months and as such no comparison of Ohio could be made with Cuddalore area. The Respondent No. 3 further submitted that with low concentration of NOX and VOC in the study area, the concentration of ozone was expected as per NAAQS 2009 standards irrespective of the level of industrialisation there. These are only presumptive inferences. It was the duty of the Respondent No.3- project proponent to have actually collected baseline data in respect of ozone concentration. However, more so with the setting up of the petro-chemical industries it being PCPIR region, the concentration of VOC and NOX in ambient air is expected to rise and consequently, there should be incremental change in ozone levels. Citing of CPCB study for Kolkata in order to show that the concentration of ozone in ambient air in industrial and residential area had remained well within NAAQS 2009 standards for all seasons of the year despite high NOX and VOC concentration is of no avail to dispense with the collection of baseline data for ozone levels and study of cumulative impact of the industries on ozone levels. Thus, the RCEIA report suffers from material short coming (as indicated in para 45 onwards) and to that extent the Cumulative Impact Assessment Study remains flawed.

52. How the Corrigendum dated 14-08-2012 suggesting additional conditions took its shape is revealed in the body of the corrigendum itself. It reveals that in pursuance to the directions of this Tribunal dated 23rd May, 2012 and 30th May, 2012 Rapid Cumulative Environment Impact Assessment (RCEIA) Study carried by the Project Proponent was placed before the Expert Appraisal Committee in its meeting held on 25th June, 2012 and 16th July, 2012; and after detailed deliberations on the submission made by the rival parties during the meeting held on 25-06-2012 the Expert Appraisal Committee had recommended stipulation of additional conditions to the EC dated 31-05-2010 and continuation of the project; and the Ministry accepted the recommendations of the EAC and issued the Corrigendum.

and ultimately after consideration, set aside the corrigendum issued and directed to conduct fresh Impact Assessment taking into consideration the following things:

2. Keeping in mind the observations made herein, the Respondent No. 3- the project proponent shall carry out fresh Cumulative Impact Assessment Study of the project in question within a reasonable period and for that purpose shall:

- a. Collect baseline/primary data of each and every existing industry as required under prevalent regulations and compare with National Standards as notified by the Government from time to time.
- b. Collect data regarding treated effluents discharge/likely to be discharged by such industries.
- c. Collect primary baseline data on socio-economic environment.

- d. Collect data regarding industry in offing and which are likely to come in next five years as per PCPIR declaration as aforesaid in liaison with State PCB and/or the project proponents.*
- e. Carry out impact prediction/assessment using appropriate mathematical models.*
- f. Suggest appropriate management plan/s for significant impacts including financial implications*

31. It is clear from the above decision that the necessity for conducting the Cumulative Impact Assessment Study is a must for considering the question of allowing a new industry to come in an area which is already an industrial estate having a lot of polluting industries and non-conducting of such a study and suppression of certain material facts by the project proponent will be a ground of setting aside the environment clearance or suspending the environment clearance and direct the project proponent to conduct further study on that aspect and revisit these aspects by the recommending and issuing authority and impose further condition, if any, necessary.

32. Further, in the decision of Principal Bench in Appeal No. 07/2011-Krishi Vigyan Arogya Sanstha & Ors. Vs. Union of India & Ors. regarding the necessity for conducting Radio-Activity Study in respect of coal to be used on the basis of the specific coal availability which is to be used as fuel by the proposed thermal power plant was considered and disposed of Appeal with following directions:

"However, the Environmental Impact Assessment as well as Expert Appraisal Committee have completely ignored by objections raised by Mr. Paliwal and others regarding nuclear radiation that would be caused by the proposed project. But we are of the opinion that in a project of this nature, as stated by Mr. Paliwal, in the public hearing, the effect of nuclear radiation was neither studied nor examined and it was simply brushed aside in the arguments before this Tribunal stating that there was no necessity of examining the project from nuclear radiation point of view as no such plant would cause nuclear

radiation which harms the human habitation or the environmental ecology in the surrounding area.

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10. Taking all the above into consideration, we are of the considered opinion that this appeal requires to be disposed of with the following directions keeping in view the principles of sustainable development and precautionary principle.

a. The first respondent, Ministry of Environment and Forests is directed to look into the matter as to long term impacts caused by nuclear radiation from the thermal power projects, by instituting a scientific long term study involving Bhabha Atomic Research Agency or any such other recognised scientific institution dealing with nuclear radiation with reference to the coal ash generated by thermal power project (Respondent no. 3) particularly the cumulative effect of a number of thermal power project located in the area on human habitation and environment and ecology. The study shall also take into consideration the health profile of the residents within the area in which the pollutants are expected to spread from the thermal power project.

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c. The Ministry of Environment and Forests shall include in the Terms of Reference of all the future projects asking the proponent to furnish details of possible nuclear radio-activity levels of the coal proposed to be used for the thermal power plant.

d. The Ministry of Environment and Forests shall get the national standards prescribed, if not already available, from the Department of Atomic Energy, Government of India within a period of one year from the date of receipt of this order, as to permissible levels of nuclear radiation in residential, industrial and ecologically sensitive areas of the country.

33. The above principles will have to be kept in mind while considering the facts in this case. There is no dispute regarding the fact the present project which is proposed to be established by 3rd respondent, namely, a new Thermal Power Plant having a capacity of 2x800MW in Ramagundam village which is a declared industrial estate having lot of industries including other thermal power plants some of which were operated by the 3rd respondent concern itself. It is also an admitted fact that when united Andhra Pradesh was divided into two States, namely, State of Andhra Pradesh and Telangana, there arose the necessity for having its own infrastructure facilities to meet

their development activities which include supply of power for which they required an independent power plant which may be able to supply power to them to cater their needs and that has been incorporated in the State Reorganisation Act, 2014 itself by adding as item 7 to the Schedule attached to the same. Further, the necessity for power plants and power generating units using natural resources have been considered by the Hon'ble Apex Court while considering the establishment of Kudankulam Atomic power plant in *G.Sundarrajan vs Union Of India & Ors* (2013) 6 SCC 620 and also considered the necessity for using the natural resource of coal available for meeting the fuel requirement of thermal power plants of coal fire thermal power plants in the decision reported in *Occupational Health & Safety Assn. v. Union of India*, (2014) 3 SCC 547. So, establishment of thermal power plant cannot be prevented merely on the ground that it is likely to cause pollution even without considering the question as to whether the possible pollution can be mitigated by applying the Precautionary Principle by providing necessary mitigating circumstances to abate the possible pollution being caused taking into account the Principle of Sustainable Development which is also required for the purpose of promoting the economic development of the nation, but at the same time, without compromising the degradation that is likely to be caused of irreversible nature on environment.

34. It is also an admitted fact that Terms of Reference were issued and the project proponent the 3rd respondent had prepared a draft environment impact assessment report which were made available for the purpose of public consultation and public consultation was done in accordance with law and the same has been recorded and forwarded to MoEF&CC by the Pollution Control Board as required under EIA Notification, 2006. There is no case for the appellant that no proper public consultation was done. No such specific ground was raised in the Appeal memorandum as well though certain passing observations have been made that the views raised in the public consultation had not been properly recorded and made available to the Expert Appraisal Committee for consideration.

35. So under such circumstances it cannot be said that there was illegality or impropriety committed by the project proponent or the authorities in conducting the public consultation as required under EIA Notification, 2006 and forwarding the same to MoEF&CC and consideration of the same by the recommending authority and also by issuing authority.

36. It is also an admitted fact that on the basis of the public consultation, the environment impact assessment report was prepared by appointing an accredited agency by the project proponent and it was made available for the Expert Appraisal Committee for consideration. It is also an admitted fact that the Expert Appraisal Committee had considered this project in its 45th meeting held on 29th-30th October, 2015 and this was

considered as item number 2 and after considering the material available, the proposal was deferred with the following direction to be complied with by the project proponent which reads as follows:

- I. Commitment and Action Plan for compliance to the Ministry's Notification dated 02.01.2014 regarding use of coal with ash content not exceeding thirty-four per cent, on quarterly average basis.*
- II. Detailed note on rise in temperature in consultation with IMD. The data shall be as old as possible.*
- III. Certification from the concerned authority that the site is not located on economically feasible mineable mineral deposit. (ToR 15).*
- IV Occupational Health and epidemic health disorders survey of the study area.*
- V. The Quality of effluent from ash pond vis-a-vis the River water quality. The impact on agricultural fields in terms of heavy metal in food chain and ground water/soil.*
- VI. Plan for recycling and reuse ash pond effluent after minimizing the discharge of cooling water blow down etc. to the ash pond. No untreated ash pond effluent shall be discharged.*
- VII . Detailed report on water drawl, water channels and diversion duly certified by the Irrigation & Flood Control Department of the State Government.*
- VIII. Satellite map showing the existing green belt. Revised plant layout by maintaining thick three-tier green belt in minimum 33% area.*
- IX. As committee, revised CSR action plan for the proposed expansion with a minimum a budget of Rs. 20 Crores (only fro the construction phase).*
- X. Budgeted action for the hearing issues.*
- XI. Reply to the representation received by the EAC, a copy of which was provided to the PP.*
- XII Revised AAQ modelling results.*
- XIII. Commitment for installation of FGD.*
- XIV. Detailed document/permission for tapering coal linkage.*
- XV. All the discrepancies, if any, in the EIA/EMP shall be addressed and submitted.*

37. It is also an admitted fact that after this, the project proponent had forwarded the details and this was again considered by the Expert Appraisal Committee in their 46th meeting held on 26th - 27th November, 2015 as item no 2 and discussed about the same in para 2 and recommended the project with certain conditions mentioned in para 3 which is extracted for convenience sake as follows:

- 2. Upon submission of the above documents/information, the proposal was again placed before the Committee during this*

meeting, wherein the PP along with their environmental consultant, Vimta Labs, Hyderabad, made a presentation and inter-alia, provided the following information:

(i) Regarding compliance to the Ministry's Notification dated 02.01.2014, the coal with ash content not exceeding 34% on quarterly basis will be used for the project. Accordingly, the modified Ash Utilization Plan with 34% maximum ash content has been submitted and also presented.

(ii) Regarding rise in temperature, the temperature data has been collected from IMD for 1951 to 1980, 1971 to 2000 and 2001-2015(October) for a period of 65 years. An increase of 4°C in a span of 30 years has inadvertently been mentioned under subsection 3.3.3.3 of Chapter-3 of the EIA report due to erroneous comparison of mean maximum IMD data for a period 1951-1980 with the latest 2014 annual temperature data as recorded at Ramagundam STPS. However, comparison of IMD data for period 1951-1980, 1971-2000 and 2001-2015 shows decrease of mean maximum temperature in range between 0.3°C to 1.6° C before and after commissioning of project. The mean maximum temperature during the period of 1951-1980(May) is 45.6° C during period 1971-2000 (May) is 45.3° C and during period 2001-2015 (May) is 43.7° C. Therefore, the mean maximum temperature showed a fall of 0.3° C during the period of 1951-1980 to 1971-2000 and a further fall of 1.6° C during the period of 1951-1980 to 2001-2015. The extreme maximum temperature during period 1951-1980 (May) is 47.2° C, during period 1971-2000 (May) is 47.3° C and during period 1951-1980 (May) is 47.2° C. Further, an increase of 0.1° C is observed in the month of May during period 1951-1980 & 1970-2000 followed by a decrease of 0.1° C during subsequent period.

(iii) Regarding economically feasible mineable mineral deposit, a letter has been written by NTPC on 02.11.2015 to Deputy Director General, Geological Survey of India requesting to issue the certificate on mineable deposits in the proposed project is being set up within the existing premises of Ramagundam STPS.

(iv) Regarding occupational health, a survey on Environmental Human Health Risk Assessment was conducted by M/s Pollucon Laboratories Pvt. Ltd. Surat in and around Ramagundam area. The study revealed that there is no specific endemic disease in the surrounding area and the health status of study population was satisfactory and health problems reported during the study were not showing any unusual pattern. The health problems reported during the study were not showing any unusual pattern. The health related problems found during the study like general health related complaints, high blood pressure, malnutrition, anaemia, refractive error were mainly due to life style related factors and not due to above mentioned pollutants in emission.

(v) Regarding the quality of ash pond effluent, the water samples are collected in River Godavari as well as ash pond effluent. Soil samples are collected from agricultural fields of three villages namely Lingapuram, Rayadandi and Peddampet wherein the farmers irrigate their fields with ash water. Paddy samples are collected from Rayadandi village where in farmers irrigate their fields with ash water. Paddy samples has also been collected from Elkalapalli as a controlled sample. The results of various parameters are within the limits.

(vi) Regarding recycling and re-use of ash pond effluent, the entire ash pond effluent (ash water) of Telangana STPP stage-I (2x800) MW will be recycled for use in the plant and ash handling system. Ash water recirculation system comprising of pumps and piping are envisaged for the same.

(vii) Regarding report on water drawl etc., irrigation & CAD Department, Government of Telangana vide its letter dated 02.09.2015 has accorded and certified permission for drawl of 60 cusecs (2.00TMC) water throughout the year from Sreepada Yelampalli Barrage from the net available yield.

(viii) Regarding green belt, the photographs relating to green belt development along with satellite map are presented. The revised General Layout Plan with additional proposed green belt is also presented. Green belt of 60 acres shall be provided as shown in Layout Plan.

(ix) Regarding CSR action plan, an amount of Rs. 20 crores (during construction phase/five years) will be earmarked for CSR activities of the proposed expansion in the areas of education, health, sanitation, water, electrification, infrastructure etc. During the operation period, CSR funds will be allocated as per GOI policy.

(x) Regarding budgeted action plan for the public hearing issues, during the public hearing proceedings most of the public have expressed their concern regarding the community Development activities for their respective villages. In addition to the regular CSR budget of existing Ramagundam plant, one time oost provision of Rs. 20 crores for implementation of community Development (CD) activities related to water, roads, education, health, sanitation, training and support for IGA, etc, under CD plan for telangana project will be earmarked based on assessed needs. Further, post commissioning of telangana project, CSR funds will also be allocated for project as per company Act, 2013/Govt. Guidelines/NTPC Policy.

(xi) Reply of PP to the representation received by the EAC has been submitted and also presented.

(xii) Regarding the AAQ modelling results, the prediction of maximum ground level concentrations (GLC's) on AAQ due to the proposed power project has been carried out taking in to consideration the worst coal characteristics and worst micro-climatic condition. Based on modelling predictions, it can be concluded that the predicted incremental ground level concentration of SO₂ is about 21.5ug/m³ by using WCL coal. This value when compared to predicted GLC's of SCCL coal (i.e. 34.22 ug/m³) reduction of SO₂ emission rate by 37% is observed. A per discussions with CEA representative of EAC, emission load of SO₂ is observed as 27.1 ug/m³ considering coal quantity as 7.36 MTPA. Significant reduction in air emission load is envisaged with the use of WCL coal.

The maximum base line concentrations of PM₁₀ SO₂ and NO_x are 68.5 ug/m³, 23.5 ug/m³ and 32.8 ug/m³ respectively. The maximum cumulative incremental concentration of PM₁₀ SO₂ and NO_x considering the coal from SCCL /worst case scenario are 11.41 ug/m³ 54.47 ug/m³ and 20.11 ug/m³ respectively. Accordingly, the resultant Ground Level Concentrations (GLC's) of PM₁₀ SO₂ and NO_x will be 79.77 ug/m³, 77.97 ug/m³ and 52.91 ug/m³ respectively.

(xiii) regarding installation of FGD the cumulative impact indicates a maximum SO₂ concentration of 65.10 ug/m³ with the committed tapering linkage of WCL coal which is well within prescribed limits. However, space provision has been kept in General Layout plan for retrofitting FGD system in future, if required.

(xiv) Regarding tapering coal linkage, coal India Limited (CIL) vide its letter dated 06.11.2015 has allote tapering coal linkage for the Telangana Stage-I STPP (2x800) MW from Western Coalfields Ltd. (WCL).

(xv) Regarding discrepancies, if any, in the EIA/EMP, the issue raised in the minutes of EAC meeting have been addressed.

3. Based on the information/documents provided by the project proponent and clarification provided during detailed discussions held on all the issues, the committee recommended the project for environmental clearance subject to stipulations of the following additional specific conditions:

I. As the satellite imagery submitted was not clear, a clear satellite imagery shall be submitted to the Ministry and its R.O. Further, latest authenticated satellite imagery shall be submitted on an annual basis to the Ministry and its R.O to monitor the alterations of the area.

II. The PP shall ensure compliance to the Ministry's Notification dated 02.01.2014 regarding the use of coal with ash content not exceeding thirty-four per cent, on quarterly average basis. This is to be ensured by incorporating a condition in the MoU/FSA with CIL etc. Also, if required, coal washery shall be installed.

III. The Sulphur and ash content of coal shall not exceed 0.5% and 34% respectively. In case of variation of quality at any point of time, fresh reference shall be made to the Ministry and suitable amendments to the environmental clearance will have to be sought.

IV. FGD shall be installed as the emissions are found to be almost reaching threshold limit of 80 unit (for the worst case scenario) and also considering the cushion w.r.t NAAQS

V. NTPC shall endeavour to enter into MoUs with NHAI, Associations of cement Industries and Municipal Authorities for ensuring ash utilization in roads construction and cement manufacturing.

VI. The PP shall examine possibility of relocating the ash pond. In case, the relocation of ash pond is not possible, precautionary measures by providing maximum green belt between ash pond and reservoir etc. shall be undertaken.

VII. Study shall be conducted regarding the impact on agricultural fields in terms of heavy metal in food chain and ground water/soil for a period of one year and the report submitted to the Ministry.

VIII. The Ash water Re-circulation System (AWRS) shall be immediately installed for the existing TPP. Till that time, the ash pond effluent shall into be discharged into agricultural fields.

IX. The PP shall enhance the green belt of the existing TPP in compliance to the earlier EC conditions etc.

X. Long term monitoring of temperature shall be undertaken on-site and off-site of the TPP, as data of decrease in temperature needs to be verified. Further, requisite corrective action shall be taken based on the findings of the monitoring.

XI. As the data for the health studies was more than five years old, a fresh occupational Health and epidemic health disorders survey of the study area (10 km radius) shall be conducted and the report submitted to the Ministry and its R.O. within one year.

XII. As committed, a minimum amount of Rs. 20 crores shall be earmarked as capital cost for CSR activities and the recurring cost per annum shall be as per the CSR policy of GOI till the operation of the plant commences.

38. Based on these recommendations the MoEF&CC had issued the impugned environment clearance dated 21.01.2016 with certain special and general conditions and most of the

recommendations made by the Expert Appraisal Committee were reproduced as special conditions in the environment clearance granted to be complied with by the project proponent. It is a settled law that the Expert Appraisal Committee as well as MoEF&CC has to appraise the project by applying their mind minutely while deciding to recommend/issuing the environment clearance respectively. It is also settled law that the quasi-judicial authorities with whom certain decision making process has been vested have to give their reasons for coming to such a conclusion and if this is not reflected in the order, then there is lack of application of mind on the part of the authorities which is a ground of setting aside the order passed by such authorities. It is also settled law that it is not necessary for such quasi-judicial authorities or administrative bodies who are exercising the decision making process to give detailed reasons or logic as in the case of writing judgements by the judicial authorities but the reading of the orders or proceedings by such authorities must reflect the materials considered by them and the reasons for coming to such a conclusion showing their subjective satisfaction of assessment of the project in a legalistic manner. So merely because the authorities have not given detailed reasons for coming to such conclusion alone is not a ground to set aside the order passed by such authorities if the perusal of the such proceedings or orders reflects the proper application of mind by such authorities, that will be sufficient to sustain such assessment made by the expert

bodies. Keeping this in mind, the grounds made by the appellant and how this was met by the project proponent and the authorities concerned have to be considered.

39. The appellant had challenged the establishment of the present unit on the ground that it is situated in a water body and that aspect has not been considered for the purpose of assessing its impact on water body. This was countered by the 3rd respondent on the ground that there is no water body as such in the project area. The Learned Counsel for the appellant is relying on the map provided regarding the project area and the impact area of 10 kms in which certain blue shades were shown which according to the appellant is a water body in which the project has to be established. It may be mentioned here that the study area is having an extent of 10 kms and also the project proponent unit has been allotted 9600 and odd acres of which the proposed project area is only smaller in extent. It may also be mentioned here that except some blue dots in the map produced along with the EIA report prepared by the accredited expert body appointed by the project proponent wherein they have stated that there is no water body in existence in the project area and the nearest water body is River Godavari which is situated 4 kms away from the proposed project area. There is no document produced by the appellant to show that there exists a natural water body as envisaged which requires conservation, preservation and protection against any exploitation which was entered in the Revenue

Records or any other recognised records of the Government. It is settled law that natural water courses like reservoir, river, sea, creek and natural tanks which is being used for collection of water etc have to be protected and even if it dried during some season for want of adequate rain and become disuse for some period will not be a ground for allotting those areas for other purposes as has been observed by the Hon'ble Apex Court in the decision reported in Meghwal Samaj Shiksha Samiti v. Lakh Singh, (2011) 11 SCC 800, Intellectuals Forum, Tirupathi vs State Of A.P. & Ors (2006) 3 SCC 549. and Hinch Lal Tiwari vs Kamala Devi And Ors (2001) 6 SCC 496. Further in the decision reported in Susetha vs State Of Tamil Nadu And Ors (2006) 6 SCC 543, it has been held that artificial tank made by the authorities cannot be treated as water bodies. Further, it was in a way admitted by the project proponent that being a low-lying area, there used to be stagnation of water for some time and that will be dried up immediately as well and except that there was no recognised water body in that area which requires protection and preservation as claimed by the appellant. So under such circumstances, there is no merit in the submission made by the Learned Counsel for the appellant that the unit itself was established on the water body and that aspect has not been considered by the Expert Appraisal Committee or the Expert Body appointed by the project proponent for the purpose of considering the impact on ground

water quality while preparing the environment impact assessment report.

40. As regards the health study is concerned, the project proponent has relied on the reports submitted by an agency appointed by them, namely, M/s Poolucon Laboratories Private Limited based on the old health impact report of the year 2009 and the Expert Appraisal Committee in its 45th meeting made an observation that the project proponent has not complied with the ToR number xxxiv and furnished the old report and wanted fresh details of epidemic health survey of individuals in the project area. The appellant also relied on the report of the NEERI regarding the impact of coal based thermal power plants on health conditions of the people and they have observed that people living within 5 km radius of the existing thermal power plants of the project proponent in the Ramagundam village are suffering from respiratory diseases. It may be mentioned here that it was a general study conducted by NEERI regarding the health impact in Ramagundam area on account of air pollution in which they have mentioned that thermal power plants are also contributing their share. So under such circumstances, it cannot be said that the pollution caused on account of coal based thermal power plant alone are solely responsible for such health impact study reference made in any of these reports. There are other contributions also which results in air pollution in an industrial area by other units as well. Further, it may be mentioned here that after the

45th meeting of the Expert Appraisal Committee, the project proponent had submitted a further report obtained from the Government Hospital in that area wherein it was specifically mentioned that there is no epidemic diseases reported in that area resulting in death on account of air pollution caused. This was considered by the Expert Appraisal Committee and accepted the same but while recommending the project as a Precautionary Principle directed the project proponent to conduct a detailed health study by appointing a proper agency for this purpose and submit the same to MoEF&CC on later occasion while complying with conditions of submitting their progress report while the project establishment activities are in progress. This was accepted by the MoEF&CC as well as a condition and it is seen by the reply submitted by the project proponent that for the purpose of conducting a detailed study an expert agency has been appointed and the report will be submitted to the MoEF&CC as when the same is completed. They also mentioned that as part of their Corporate social responsibility, they have already undertaken lot of health awareness programmes, conducted health camps and provided hospital facilities for the people in the locality and also to their employees and they will continue to do the same in future as well as part of their Corporate social responsibility and sufficient funds have been provided for this as well in their budget every year. Certain details were also given by them regarding the nature of activities undertaken by existing

thermal power plants owned by the 3rd respondent unit in that area itself. So under such circumstances, merely because there was some general study made and overall observations have been made that lot of death is being caused on account of air pollution and coal based thermal power plant are also contributing their share for that purpose alone is not sufficient to come to the conclusion that thermal power plant were responsible for such in the absence of any specific report regarding the number of persons died in a particular area on account of the same alone is made out. So under such circumstances, there is no merit in the submission made by the Learned Counsel for the appellant that there was no proper health study conducted and on that ground the environment clearance has to be set aside cannot be accepted especially when as a Precautionary Principle such a regular study was directed to be conducted by the 3rd respondent unit in future and remedial measures will have to be taken for providing necessary health care to the people who are likely to be affected on account of such activity if it is reported. So on that ground the environment clearance cannot be set aside as contended by the Learned Counsel for the appellant.

41. As regards the extraction of ground water is concerned, according to the appellant, there was no study conducted by the expert agency appointed to prepare the environment impact assessment report regarding the amount of ground water to be extracted for the purpose of construction activities and that

report has not been specifically envisaged or anticipated in the environment impact assessment report and that has not been considered either by the Expert Appraisal Committee or by the MoEF&CC. To this the 3rd respondent had categorically stated that there is no proposal to draw any ground water from that project area and they have alternative arrangements for getting the water for their construction purpose from the water Board and as such there was no necessity for conducting any study on that aspect in this regard. Only if there is a proposal for drawing any ground water from that area by the project proponent for the purpose of construction, the quantity of ground water available in that area for the purpose of drawing, the same has to be studied by the project proponent and in the absence of the same, non-conduct of study on that aspect will not vitiate the environment impact assessment report submitted by the project proponent and this has been properly considered by the Expert Appraisal Committee as well as MoEF&CC while considering the project and on that ground the environment clearance need not be set aside as claimed by the Learned Counsel for the appellant.

42. As regards the coal linkage is concerned, it will be seen from the conclusion portion of EIA report prepared by the accredited agency that the total coal requirement for the project is estimated as 8MT per annum and existing coal handling system will be used to handle the coal requirement. Ministry of Coal vide its office Memorandum dated 10.09.2015 has allotted

Mandakini-B coal mine in Odisha State to proposed NTPC Telangana State Thermal Power Plant. Further, in pursuance to expedite the process of project implementation, Ministry of Coal vide its letter dated 29.05.2015 had accorded in Principle approval for grant of tapering linkage of coal from Coal India Limited to Telangana State Thermal Plant stage-I 2x800MW as an exceptional case till the operation of Mandakini-B coal mine block. So they have not taken into consideration the quality of coal to be obtained from Western Coal Limited, West Bengal in respect of which certain linkage has been obtained by the project proponent till they obtain coal from Mandakini-B coal mine block of Odisha and Coal India Limited. It is also in a way admitted by the project proponent that the radio-activity and heavy metal study was not conducted of any of the quality of the coal to be used for the proposed unit and that was obtained only in November, 2016 as produced by the project proponent along with the rejoinder statement after the environment clearance was issued. Further, the laboratory report of the Western Coal Limited, which was produced for consideration by the Expert Appraisal Committee also, did not contain the radio-activity and heavy metal presence in the coal to be used and the Expert Appraisal Committee on the basis of the representation made by the project proponent and its expert appointed observed that the worst coal condition was taken for the purpose of assessing the impact of coal to be used, namely, western coal limited. But that also did not take in the

laboratory report regarding the radio-activity and heavy metal presence and no study was conducted to ascertain its impact on environment either by the Expert Appraisal Committee or by the expert body appointed by the project proponent. It is also in a way admitted by the project proponent in their reply statement, rejoinder and sub-rejoinder statement filed by them that no such study was conducted and they have only requested all the coal linking agencies in respect of whom approval have been granted by the Ministry of Coal to furnish the laboratory reports on this aspect.

43. Further, in the decision reported in Appeal No. 07/2011(T) - Krishi Vigyan Arogya Sanstha & Ors. Vs. Union of India & Ors. the Principal Bench discussed about the necessity for conducting radio-activity and heavy metal study conducted by accredited laboratories to be furnished for consideration by the Expert Appraisal Committee regarding its impact on the environment and the appeal was disposed of with certain directions and observations which reads as follows:

"However, the Environmental Impact Assessment as well as Expert Appraisal Committee have completely ignored by objections raised by Mr. Paliwal and others regarding nuclear radiation that would be caused by the proposed project. But we are of the opinion that in a project of this nature, as stated by Mr. Paliwal, in the public hearing, the effect of nuclear radiation was neither studied nor examined and it was simply brushed aside in the arguments before this Tribunal stating that there was no necessity of examining the project from nuclear radiation point of view as no such plant would cause nuclear radiation which harms the human habitation or the environmental ecology in the surrounding area.

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10. Taking all the above into consideration, we are of the considered opinion that this appeal requires to be disposed of with the following directions keeping in view the principles of sustainable development and precautionary principle.

a. The first respondent, Ministry of Environment and Forests is directed to look into the matter as to long term impacts caused by nuclear radiation from the thermal power projects, by instituting a scientific long term study involving Bhabha Atomic Research Agency or any such other recognised scientific institution dealing with nuclear radiation with reference to the coal ash generated by thermal power project (Respondent no. 3) particularly the cumulative effect of a number of thermal power project located in the area on human habitation and environment and ecology. The study shall also take into consideration the health profile of the residents within the area in which the pollutants are expected to spread from the thermal power project.

.....

c. The Ministry of Environment and Forests shall include in the Terms of Reference of all the future projects asking the proponent to furnish details of possible nuclear radio-activity levels of the coal proposed to be used for the thermal power plant.

d. The Ministry of Environment and Forests shall get the national standards prescribed, if not already available, from the Department of Atomic Energy, Government of India within a period of one year from the date of receipt of this order, as to permissible levels of nuclear radiation in residential, industrial and ecologically sensitive areas of the country.

44. So it clear from the above conclusion of the Tribunal that it is highly necessary to conduct environment impact assessment on the basis of the radio-activity and heavy metal presence in the coal to be used and that must be made available for appraisal by the Expert Appraisal Committee and the MoEF&CC before recommending or issuing the clearance to the proposed project.
45. The project proponent had relied on the subsequent environment clearance granted dated 21.10.2020 vide their proceedings no. F. No.J-13012/112/2010-IA.I(T) which modified conditions number (xv) of environment clearance dated 20.01.2016 which is under challenge as follows:

i. "Radio activity and heavy metals contents in coal and fly ash (including bottom ash) shall be carried out through a reputed institute once in a year and the analysis reported to be submitted to the Ministry and its Regional office."

ii. The total Radio-activity in the working areas such as coal stock yard, flyash pond shall be calculated based on the analysis results per unit weight of coal/ash. The total radio-activity in the atmosphere is to be compared with the maximum permissible dosage levels of each person working in those areas. This is to be conducted once in a year.

iii. While commissioning the proposed unit, the compliance of revised emission norms issued vide Notification dated 07.12.2015 and as amended time to time shall be achieved along with specific water consumption as per notification dated 28.06.2018. The FGD system and Nox control measures such as SCR/SCNR/De-NOX burners shall be installed to achieve the revised emission norms.

iv. As per the revised Tariff Policy notified by Ministry of Power vide dated 28.01.2016, project proponent shall explore the use of treated sewage water from the sewage Treatment plant of Municipality/local bodies/similar organization located within 50km radius of the proposed power project to minimize the water drawl from surface water bodies. The details of sewage Treatment Plants located within 50 Km radius along with the capacities shall be submitted.

46. Further there was an amendment to the environment clearance granted earlier by amended environment clearance dated 06.03.2017 vide its proceedings no. J-13012/112/2010-IA.II(T) whereby they have amended specific condition no. 6A(xvii) as follows:

i. Specific condition no. 6A(xvii): High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed the standards prescribed in the MoEF&CC vide Notification S.O. 3305(E) dated 07.12.2015 or any other standards notified by the Ministry whichever is stringent. Emission standards notified vide S.O. 3305(E) dated 07.12.2015 shall be complied with. Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.

ii. Specific condition no 6A(xvii): Wastewater generated from the plant shall be treated and reused for various purposes within the plant. There shall not be any discharge of wastewater. Zero liquid discharge shall be adopted and specific water consumption shall be achieved as per the MoEF&CC Notification S. O. 3305(E) dated 07.12.2015.

47. These two amendments were made at the time even the present appeal is pending. So, whatever amendment made can be only to be treated as subject to the final orders to be passed by this Tribunal in general and they cannot get exemption from carrying out certain responsibility by virtue of subsequent amendment obtained by them by filing necessary subsequent application before the authorities. Further, they have not

produced necessary inputs regarding study conducted by the project proponent which were considered by the Expert Appraisal Committee or the MoEF&CC before effecting such amendments to the conditions imposed in the original environment clearance dated 21.01.2016 which is under challenge. So under such circumstances it is clear from the discussion above that there was no study conducted by the Expert agency appointed by the project proponent for preparing the EIA report and no study was conducted regarding the impact of coal to be used on environment on account of the possible emission of radio-activity and heavy metal from the fly ash/bottom ash generated on account of use of the coal as fuel in such thermal power plant effect which has been considered by this Tribunal in Appeal No. 07/2011 mentioned above. Such studies were not available before the Expert Appraisal Committee or before the MoEF&CC though the Expert Appraisal Committee in 45th meeting had deferred the consideration of proposal by insisting for such study as well and in spite of the same, the Expert Appraisal Committee had recommended the project with a direction to the project proponent to conduct this study and submit the report to MoEF&CC. MOEF&CC also simply reiterated this condition and directing the project proponent to conduct the study and produce the report later for consideration and granted environment clearance. So as such there was non-compliance of the direction issued by this Tribunal regarding study to be

conducted and impacts on environment before considering the grant of environment clearance to thermal power plants.

48. So, the MoEF&CC had to be directed to direct the project proponent to conduct such studies and submit the environment impact assessment report to them which has to be considered by the Expert Appraisal Committee and on the basis of their appraisal and recommendations additional condition, if any, has to be imposed by MoEF&CC.

49. The other contentions raised by the Learned Counsel for the appellant was that there was no cumulative impact assessment of ambient air quality modelling was conducted while preparing the ambient air quality report in respect of 15 km as has been directed in the Terms of Reference and without having such study, it cannot be said that the modelling of Ambient Air Quality conducted was proper. Further, they have also pointed out certain deficiencies in the ambient air quality modelling conducted regarding selection of number of locations, area and non consideration of other polluting industries available in that area and its impact on the same.

50. The Terms of Reference number xxxix and xl prescribed for EIA Study by project proponent read as follows:

xxxix. Radio activity and heavy metal contents of coal to be sourced shall be examined and submitted along with the laboratory reports.

xl. Fuel analysis shall be provided. Details of auxiliary fuel, if any, including its quantity, quality, storage etc should also be furnished.

51. Further, Terms of Reference no. (i) and xxxviii also deal with this aspect which read as follows:

i. Cumulative impacts including the rise in temperature within 10/15 kms, as applicable shall be studied.

xxxviii. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the Model used and the input data used for modelling shall also be provided. The air quality contours should be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The wind roses should also be shown on the location map as well.

52. Instead of conducting cumulative impact for ambient air quality modelling within 15 kms radius, the project proponent had taken only 10 kms radius and even within the 10 km according to the appellant, certain industries were not mentioned. Further, since Ramagundam area is already declared as industrial area with lot of polluting industries including number of thermal power plants, the area should not be limited to 10 kms but it should have been 15 km as suggested in the ToR. The appellant also extracted the details of all polluting industries within 15 kms in the appeal memorandum as follows:

S.No.	Name of the Project	Production capacity in MTPA	Distance from the plant
1	Ramagundam OC-II (Named as SCCL OCP by project proponent)	6.80	4.5 Km
2	Adriyal Shaft (UG)	3.14	15
3	Jallaram	2.28	10
4	Medappalli OC (Named as SCCI OCP IV by the project proponent)	4.09	8
5	Peddampet (UG)	1.45	6
6	Ramagundam OC-I	3.3	13
7	Ramagundam OC-II	4.5	15
8	Godavarikhani-1 incline underground mine		5
9	Godavarikhani-2 incline underground mine		5
10	Godavarikhani-5 incline underground mine		7
11	Godavarikhani-10	0.45	10

	incline underground mine		
12	Godavarikhani-11A incline underground mine	1.75	9
13	Godavarikhani-9 incline underground mine	4.5	10
	Total	More than 29 MTPA	
Thermal Power Plants			
S.No.	Name of the Project	Production capacity in MTPA	Distance from the plant
1	NTPC Thermal Power plant	2600MW	Adjacent
2	SCCL Thermal Power plant	1200MW	13KM
3	TSEB Thermal Power plant	62.5MW	2.1KM
4	SCCL Thermal Power Plant	18MW	3.7KM
Other Industries			
S.No.	Name of the Project	Production capacity in MTPA	Distance from the plant
1	Kesoram Cements Limited		7.3KM
2	Fertilizer corporation limited		1.7KM

53. They have also given a number of industries considered by the project proponent as table V extracted in the appeal memorandum as follows:

Table-5
List of Industries in 10 KM Radius

S.No.	Industry	Type of Industry	Distance	Status
1	NTPC, Ramagundam	Thermal Power Plant	Adjacent	Operating
2	FCI, Ramagundam	Fertilizer	1.7 KM, SE	Not working (under Revival)
3	Telangana State Electricity Board (62.5 MW)	Thermal Power plant	2.1 KM, NW	Operating
4	SCCL-OCP-IV	Coal Mine	2.9 KM, N	Operating
5	Singareni Power House at Godavari Khani (18 MW)	Thermal Power plant	4.5 KM, ENE	Operating
6	SCCL-OCP	Coal Mine	4.5 KM, SE	Operating
7	Kesoram Cements Limited	Cement plant	7.3 KM, SW	Operating

54. The appellant has also given the details of Coal mines situated within a distance of 15 kms and other thermal power plants which read as follows:

COAL MINES			
S.No.	Name of the Project	Production capacity in MTPA	Distance from the plant
1	Adriyal Shaft (UG)	3.14	15
2	Jallaram (UG)	2.28	10
3	Peddampet (UG)	1.45	6
4	Ramagundam OC-I	3.3	13
5	Ramagundam OC-II	4.5	15
6	Godavarikhani-1 incline underground mine		5
7	Godavarikhani-2 incline underground mine		5
8	Godavarikhani-5 incline underground mine		7
9	Godavarikhani-10 incline underground mine	0.45	10
10	Godavarikhani-11A incline underground mine	1.75	9
11	Godavarikhani-9 incline underground mine	4.5	10
THERMAL POWER PLANT			
S.No.	Name of the Project	Production capacity in MTPA	Distance from the plant
12	SCCL Thermal Power plant	1200MW	13KM

55. The necessity for conducting Ambient Air Quality Modelling in a cumulative manner taking into consideration the institutions available in the locality and the proposed unit that are likely to come had been considered by the Tribunal in T. Muruganandam & Ors. Vs. Union of India & Ors Appeal No. 50 of 2012 as follows:

"41.... Thus, the cumulative Impact as the term indicates is not the impact of any project in isolation but it is a total impact resulting from the interaction of the project with other project activities around it-past, present and those to come up in future. It is a comprehensive view of the impacts resulting from all the projects- past, present or planned ones on the environment. Cumulative Impact may be same or different and those arising out of individual activities and tend to be larger, long lasting and spread over a greater area within the individual impact. Such studies are therefore commonly expected to:

- 1. Assess effects over a larger area that may cross jurisdiction boundaries;*

2. Assess effects during a longer period of time into the past and future;
3. Consider effects on other eco-system components due to interactions with other actions and not just the effect of the single action under review;
4. Include other past, existing and future (reasonably foreseeable) action; and
5. Evaluate significant effect in consideration of other than just local and direct effects.*

56. Further it will be seen from the EIA study conducted that number of locations taken were only four depending upon the wind which reads as follows:

Table-3.4.1
DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS

Station Code	Name of the Station	Distance w.r.t proposed plant (Km)	Direction w.r.t proposed plant	Zone	Environmental Setting
AAQ1	Proposed plant site	----	----	Industrial	--
AAQ2	Mallialpalli	2.5	W	Residential	Downwind
AAQ3	Malkapur	1.8	NE	Residential	Upwind
AAQ4	Near FCI Gate	2.1	SE	Residential	Crosswind

57. Further, they have only taken distance of 2 to 3 kms only for even locating the areas where study has to be conducted. Further, they have conducted baseline study only for one season from December, 2014 to February, 2015 and prepared the modelling which according to the appellant does not even tally with the ambient air quality assessed by other units during the relevant period. Further, according to the appellant, the project proponent even in the reply statement did not mention any scientific data as to why they did not conduct the impact assessment study of 15 kms and selecting only four locations alone. The appellant had relied on the Ambient Air Quality data provided by Food Corporation of India and M/s

Kirloskar Construction Pvt. limited and also the Central Pollution Control Board regarding Ramagudam area to contradict the data furnish by the project proponent. The project proponent mentioned in the reply that there is no mandatory provision for conducting Ambient Air Quality Modelling for 15 km. Further, they have taken the worst climate condition for the purpose of conducting the modelling and as such there is no illegality. Further they have also contended that the subsequent documents produced by them before this Tribunal including the latest report of the CPCB in respect Ambient Air Quality level in Ramagundam area will go to show that there were lot improvements and as such there will not be any impact on environment on account of the present unit. They also mentioned that they have taken 50 years of raise in temperature level from the data available in Indian Meteorological Department which will go to show that there was decrease in the temperature level in the project area. They have also mentioned that there is no specific provision regarding number of locations to be taken as well.

58. It may be mentioned here that the range of 10/15 km was provided for conducting cumulative impact ambient air quality modelling in the Terms of Reference depending on the area where the unit has to be established and whether it is a highly polluted industrial estate covering larger area and what would have been the probable impact of the new project that is to be established in that area and what all further precautionary

method will have to be taken for protecting environment on account of such establishment. In fact this aspect has been considered by this Bench in Appeal No. 50 of 2012 mentioned above in respect of thermal power plant and considered the necessity for conducting environment impact for a larger area of 25 kms radius considering the area where the present unit was to be established. So under such circumstances, the submission made by the Learned Counsel for the project proponent that they were justified in conducting the ambient air quality modelling in respect of 10 kms radius and taking four locations within 2 to 3 km radius depending upon the wind direction cannot be accepted.

59. Further, there were wide discrepancies noted in the measurement shown in respect of so many criteria when compared with other studies relying on certain studies conducted by others, namely, Food Corporation of India and Kirloskar Construction Pvt. Limited conducted by the appellant. Further, It is also seen from the materials provided by the appellant regarding the units available within 15 kms there are coal mines and there was no study conducted of their cumulative impact while conducting the modelling by the project proponent and there was no explanation forthcoming for the same as well. It is true that there may be some difference in the study conducted regarding the quantity of pollutants like PM, Carbon, Carbon dioxide, Nitrogen oxide etc depending upon the time of study and the location of study. But while

considering the impact of the same, if it is within the study area, then that will have some impact to be caused on account of establishment of new unit as well.

60. Further, it will be seen from the EIA report itself that the pollution will be more considering wind direction on south western direction but that locations taken by the project proponent for the purpose of the study do not taken in that direction as well. So under such circumstances, the number of locations identified and also the distance restricting to 2 to 3 km from the proposed project area and restricting the distance to 10 kms radius done by the project proponent cannot be accepted and the Expert Appraisal Committee as well as the MoEF&CC should have directed the project proponent to conduct a cumulative impact assessment study of ambient air quality modelling taking into consideration these aspects. Further, they should have conducted a modelling study though primary data was collected for one season but they have to mathematically calculate the impact after taking into the account the secondary data for different seasons in respect of 15 kms radius taking into account all industries operating and proposed to start during that time. Such an exercise was also not properly conducted by the Expert agency appointed by the project proponent and that aspect was not considered by the Expert Appraisal Committee or MoEF&CC but simply stating that modelling was done for one season, namely, winter season being the worst season and as such that is enough for

consideration So under such circumstances, this Tribunal feel that a direction has to be given to MoEF&CC to direct the project proponent to conduct a proper cumulative impact assessment of ambient air quality modelling taking into account 15 km radius and also taking more numbers of location in different areas within 15 km radius depending upon the nature of polluting industries located including the coal mines and other thermal power plant by conducting a rapid ambient air quality modelling for a different season other than winter season and also taking into account the secondary data to be collected from the other units for a period of one year during the relevant period where impact assessment was conducted and then prepare a proper ambient air quality modelling and then submit the same to the MoEF&CC within a period of four months and thereafter the MoEF&CC shall forward the same to the Expert Appraisal Committee for appraisal and after getting their recommendations, impose further conditions, if any, necessary on that basis.

61. As regard the impact of the project on water quality in that area has not been conducted according to the appellant. It is seen from the EIA report that there was no possibility of any impact on ground water as they are going to use zero liquid discharge system. It was also mentioned that there is possibility of accumulation of bottom ash or fly ash which is likely to cause impact on ground water and they have only relied upon the technology to be used by them for that purpose. It may be

mentioned here that it is an admitted phenomena that on account of collection of fly ash and bottom ash and ash slurry in the ash pond have impact on ground water of that area if that is not properly maintained. It may be mentioned here that even in the periodical compliance report to be submitted by the thermal power plants, this deficiency was noted by the Regional office and certain directions were issued to the unit to rectify the same. Though there was ToR conditions directing the proposed project proponent to study about the deficiencies in the compliance of conditions of environment clearance by existing power plants run by them and to furnish the precautions to be taken by them, the same has not been furnished by the project proponent and they have only simply stated that since they are ZLD units and green technology unit there is no necessity for replying on that aspects. This was the stand taken by them in the subsequent reply submitted by them before the Expert Appraisal Committee in compliance of the directions issued by them vide their proceedings in the 45th meetings as mentioned above.

62. Further, even in the conditions imposed, it was mentioned that they will have to change the locations of the ash pond as well. Further, though as per subsequent amendment, they have been directed to install FGD for considering the impact of fly ash and minimise the impact of fly ash in respect of SO₂ and NO_x no, study was conducted regarding the nature of technology to be applied by the project proponent in this regard

except stating that they are committed to implement the directions issued by the MOEF&CC for installation of FGD for their unit. They have not submitted the location where this is going to be implemented as well. So under such circumstances, this Tribunal feel that project proponent has to be directed to submit fresh EIA report on these aspects as well after taking into account possibility of pollution and how far the system adopted by them is going to mitigate the same and that will have to be appraised by the Expert Appraisal Committee and MoEF&CC and if any further conditions have to be imposed that has to be done as well as the nature of the impact that is likely to be caused on account of ground water is much as has been observed by the various reports submitted by the Pollution Control Board as well as Central Pollution Control Board in connection with other thermal power plants and other industries. So, for that purpose also the matter has to be remitted to the MoEF&CC.

63. Further, the report submitted by the project proponent regarding the water quality also shows that there are certain aspects where the criteria is not confirmed with the standard provided and number of other metals were also not considered while conducting the impact of discharge of water from such units. Further, though they have mentioned that they are going to adopt ZLD and they simply provided certain diagram regarding the water to be used without any scientific data and that was accepted by the MoEF&CC and Expert Appraisal

Committee. In fact a detailed study ought to have been conducted by them regarding the quantity of water that they are going to use and the quantity of waste water to be generated and how much they are going to reuse or recycling and other purposes without discharging the same to show that there will not be waste water available for discharging the same either into the water bodies even during monsoon season which was expected to be discharged on the ground as per EIA report submitted by them. So under such circumstances, the details regarding the same as envisaged by the appellant in their appeal memorandum at least on mathematical basis though not on actual precise calculation has to be conducted for studying the hydro-geological impact on ground water and the water bodies in that area. They have only mentioned that they will strictly comply with the conditions imposed and also notification issued by the MoEF&CC in this regard which is not sufficient while considering its impact on environment to be considered by Expert Appraisal Committee/MoEF&CC for granting clearance for this purpose.

64. So under such circumstances, we are not fully agreeable with the submission made by the Learned Senior Counsel for the project proponent that MoEF&CC has reserved their right to impose further conditions, if necessary, if any failure was noted later and that will be sufficient applying the Precautionary Principle and Sustainable Development while granting the clearance. It may be mentioned here that it is not possible for

the project proponent to go into all the minute issues regarding the impact of the project on environment. But at the same time they are expected to have a wider study of probable impact that is likely to be caused and mitigation measures taken by them are sufficient to meet the same for this purpose and that must be satisfied by the authorities before granting the clearance. It is not possible to have a minute arithmetical ascertainment of possible pollution as well as has been exercised by the appellant in their appeal memorandum. The possible pollution likely to be caused on account of the material available has to be appraised by the Expert agency appointed to prepare the impact assessment report of the unit on environment and the probable mitigation measures to be provided to mitigate the possible pollution and protect environment while permitting the unit to operate. Merely because huge amount has been invested by them is not a ground for not directing the further studies and revisit the conditions imposed for granting the environment clearance by the authorities and for that purpose even this Tribunal can exercise the discretion of suspending the same for certain period instead of setting aside the environment clearance in toto as claimed by the appellant till all the other aspects and study conducted to the satisfaction of the authorities as directed.

65. So under such circumstances, we feel there is no necessity to set aside the environment clearance granted in toto but it can be suspended for a reasonable period directing the MoEF&CC

to direct the project proponent to conduct fresh environment impact assessment study on certain aspects as detailed below and then direct the Expert Appraisal Committee to appraise the same and impose necessary additional conditions required and then consider the same and issue necessary amendment to the environment clearance dated 21.01.2016 by incorporating additional conditions for that purpose. The MoEF&CC is directed to direct the project proponent to conduct following fresh studies:

- 1) Project proponent shall be directed to conduct radio-activity and heavy metal test of coal to be used including alternative coal which they propose to use and probable impact of the same on environment and the mitigative measures to be taken to reduce impact if any on environment.
- 2) The project proponent shall be directed to conduct cumulative impact assessment of ambient air quality modelling for a radius of 15 kms from the project area by collecting primary data regarding air quality for another season other than the winter season during the relevant period and also taking more number of locations within 15 kms radius selecting the probable polluting industries situated and the impact of the present as the proposed projects in those areas as directed by the National Green Tribunal in T. Muruganandam & Ors. Vs. Union of India & Ors Appeal No. 50 of 2012.
- 3) The project proponent shall be directed to conduct fresh study regarding the area for installation of FGD system, Hydro-geological impact assessment on account of the ash pond due to storage of ash slurry in the ash pond, its location and the mitigation measures to be taken for avoiding any possible pollution on account of the same on water quality in that area.

- 4) They are also directed to conduct a proper study on the disposal of waste water/effluent by using methodology of ZLD system on a scientific basis taking into account the water quality in that area including the heavy metals which were likely to be present on account of probable contamination be caused on account of breach of ash pond, if any in future.
 - 5) After getting the impact assessment report as directed, the MoEF&CC is directed to forward the same to Expert Appraisal Committee for further appraisal and getting their recommendations of additional conditions, if any, to be imposed and then consider the same and impose necessary additional conditions for this purpose and allowing the unit to operate till then the environment clearance dated 21.01.2016 and other environment clearance granted in 2017 and 2020 relied on by the project proponent are directed to be kept in abeyance. All these exercises will have to be completed within a period of seven months.
66. The points are answered accordingly.
67. In the result, the appeal is disposed as follows:
- 1) The Environment clearance granted to the project proponent dated 21.01.2016 and subsequent amended clearance in 2017 and 2020 are directed to be kept in abeyance for a period of 7 months or till the re-appraisal is done and additional conditions imposed by the MoEF&CC whichever is earlier.
 - 2) The MoEF&CC is directed to direct the project proponent to conduct a further study on following aspects:
 1. Project proponent shall be directed to conduct radio-activity and heavy metal test of coal to be used including alternative coal which they propose to use and probable impact of the same on environment and the mitigative measures to be taken to reduce impact if any on environment.
 2. The project proponent shall be directed to conduct cumulative impact assessment of ambient air quality modelling for a radius of 15 km from the project area by

collecting primary data regarding air quality for another season other than the winter season during the relevant period and also taking more number of locations within 15 kms radius selecting the probable polluting industries situated and the impact of the present as proposed projects in those areas as such directed by the National Green Tribunal in T. Muruganandam & Ors. Vs. Union of India & Ors Appeal No. 50 of 2012.

3. The project proponent shall be directed to conduct fresh study regarding the area for installation of FGD system, Hydro-geological impact assessment on account of the ash pond due to storage of ash slurry in the ash pond its location and the mitigation measures to be taken for avoiding any possible pollution on account of the same on water quality in that area.
4. They are also directed to conduct a proper study on the disposal of waste water/effluent by using methodology of ZLD system on a scientific basis taking into account the water quality in that area including the heavy metals which were likely to be present on account of probable contamination be caused on account of breach of ash pond, if any in future.
5. After getting the impact assessment report as directed, the MoEF&CC is directed to forward the same to Expert Appraisal Committee for further appraisal and getting their recommendations of additional conditions, if any, to be imposed and then consider the same and impose necessary additional conditions for this purpose and allowing the unit to operate till then the environment clearance dated 21.01.2016 and other environment clearance granted in 2017 and 2020 relied on by the project proponent are directed to be kept in abeyance. All these exercises will have to be completed within a period of seven months.

68. Considering the circumstances, the parties are directed to bear their own costs in the appeal.

69. With the above directions and observations the appeal is disposed.

.....J.M.
(Justice K. Ramakrishnan)

.....E.M.
(Shri. Saibal Dasgupta)

Appeal No. 46/2016
27th May, 2021(AM)

IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION

CIVIL APPEAL NO. 1846 OF 2021

M/S NATIONAL THERMAL POWER
CORPORATION LIMITED (NTPC)

Appellant(s)

VERSUS

UMA MAHESHWAR DAHAGAMA & ORS.

Respondent(s)

O R D E R

Having heard the learned Solicitor General and Mr. Ritwick Dutta, learned counsel, we find that the learned Solicitor General's request that construction activities should go on while the Environmental Clearance is in abeyance and studies are conducted, appears to be reasonable one. All such activities may go on without the project actually kicking off.

We make it clear that this indulgence is granted by us on the understanding that the appellant will claim no equity in case it is ultimately found that an Environmental Clearance cannot be given for the aforesaid purpose. We also make it clear that whatever is found by the Expert Appraisal Committee after study is conducted and submitted to this Court/NGT, will be followed in letter and spirit by the appellant.

In view of above, the appeal is disposed of.

.....J.
[ROHINTON FALI NARIMAN]

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



New Delhi;
JULY 20, 2021.

ITEM NO.3 Court 2 (Video Conferencing) SECTION XVII

S U P R E M E C O U R T O F I N D I A
R E C O R D O F P R O C E E D I N G S

Civil Appeal No(s). 1846/2021

M/S NATIONAL THERMAL POWER CORPORATION LIMITED (NTPC)Appellant(s)

VERSUS

UMA MAHESHWAR DAHAGAMA & ORS.

Respondent(s)

(IA No.66564/2021-GRANT OF INTERIM RELIEF and IA No.66566/2021-
EXEMPTION FROM FILING C/C OF THE IMPUGNED JUDGMENT)

Date : 20-07-2021 This appeal was called on for hearing today.

CORAM : HON'BLE MR. JUSTICE ROHINTON FALI NARIMAN
HON'BLE MR. JUSTICE B.R. GAVAI

Counsel for the
parties

Mr. Turshar Mehta, Solicitor General
Mr. Adarsh Tripathi, Adv.
Mr. Shailesh Madhiyal, Adv.
Mr. Vikram Singh Baid, Adv.
Mr. Gaurav, AOR

Mr. Tushar Mehta, Solicitor General
Mr. Gurmeet Singh Makker, AOR
Mr. Balaji Srinivas, Adv.
Mr. Priyanka Dass, Adv.
Mr. P. V. Yogewaeen, Adv.

Mr. Ritwick Dutta, Adv.
Ms. Srishti Agnihotri, AoR
Mr. Chandratany Chaube, Adv.

Mr. Dhananjay Baijal, AOR

UPON hearing the counsel the Court made the following
O R D E R

The appeal is disposed of in terms of the signed order.

Pending interlocutory application(s), if any, is/are disposed
of.

(JAYANT KUMAR ARORA)
COURT MASTER

(NISHA TRIPATHI)
BRANCH OFFICER

(Signed order is placed on the file)