

**BEFORE THE HONOURABLE KERALA STATE
ELECTRICITY REGULATORY COMMISSION**

at its office at C.V. Raman Pillai Road, Vellayambalam,
Thiruvananthapuram.

FILING NO /2019

CASE No.

IN THE MATTER OF:

Filing of petition on 'Proposals to recover the additional cost incurred during the period April 2019 to June 2019 over approved level on Generation and Power Purchase due to variation in cost of fuel, from all consumers including Bulk Consumers and other Licensees through fuel surcharge.

AND

IN THE MATTER OF:

Kerala State Electricity Board Limited, Vydyuthi Bhavanam, Pattom,
Thiruvananthapuram

Applicant

**Deputy Chief Engineer (Commercial Planning)
with full powers of Chief Engineer
Kerala State Electricity Board Limited**

Affidavit verifying the application for filing the 'Proposals to recover the additional cost incurred during the period April 2019 to June 2019 over approved level on Generation and Power Purchase due to variation in cost of fuel, from all consumers including Bulk Consumers and other Licensees through fuel surcharge.

I, **B.Pradeep**, son of Sri.P.Balachandran, aged 53 years residing at Vipanchika, Anayara P.O., Thiruvananthapuram do solemnly affirm and state as follows:

I am the **Deputy Chief Engineer (Commercial & Planning) with full powers of Chief Engineer** of the Kerala State Electricity Board Limited, Vydyuthi Bhavanam, Pattom, Thiruvananthapuram, and the petitioner in the above matter and I am duly authorized by the Board to make this affidavit on its behalf. I solemnly affirm at Thiruvananthapuram on this the 26th day of September 2019 that the contents of the above petition are true to my information, knowledge and belief. I believe that no part of it is false and no material has been concealed there from.

Deponent

**Deputy Chief Engineer (Commercial & Planning)
with full powers of Chief Engineer**
Kerala State Electricity Board
Limited,
Vydyuthi Bhavanam,
Pattom
Thiruvananthapuram -
695 004

VERIFICATION

I, the above named deponent, solemnly affirm at Thiruvananthapuram on this, the 26th day of September, 2019 that the contents of the affidavit are true to my information, knowledge and belief, that no part of it is false and that no material has been concealed there from.

Deponent

**Deputy Chief Engineer (Commercial & Planning)
with full powers of Chief Engineer**
Kerala State Electricity Board
Limited

Vydyuthi Bhavanam,
Pattom
Thiruvananthapuram -
695 004.

Solemnly affirmed and signed before me.

Advocate and Notary

**BEFORE THE HONOURABLE KERALA STATE
ELECTRICITY REGULATORY COMMISSION**

IN THE MATTER OF: **Proposal to recover the additional cost incurred during the period April 2019 to June 2019 over approved level on Generation and Power Purchase due to variation in cost of fuel, from all consumers including Bulk Consumers and other Licensees.**

PETITIONER: **Kerala State Electricity Board Limited
Vydyuthi Bhavanam, Pattom,
Thiruvananthapuram - 695 004**

The petitioner, KSEBL, respectfully submits this petition based on the provisions of the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2018 notified as per No. 2076/F&T/2017/KSERC dated 26th October 2018.

- I. As per Regulation 86 of the Terms and Conditions of Determination of Tariff Regulations 2018, KSEBL is eligible to recover the additional liability on account of variation in actual fuel cost over approved level through fuel surcharge at the rates approved by the Hon'ble Commission. Regulation 86 (5) of KSERC Tariff Regulations, 2018 stipulates that "*Every Distribution business/licensee shall, within thirty days after the close of each quarter, submit to the Commission an application*

with all relevant details required for the approval of the amount of fuel surcharge to be adjusted from the consumers and of the rate and period of such adjustment”.

- II. Further, Honourable Commission in the tariff order dated 08.07.2019 has directed KSEB Ltd to submit regularly, at specified intervals, application for approval of fuel surcharge and also submit proposals for passing on the impact of change in hydro-thermal mix as per provisions of the Tariff Regulations, 2018.
- III. The actual details of generation and power purchase against the approved quantum during the year 2018-19 is as follows.

| Source | Quantum(MU) | | |
|--|-------------|----------|-----------|
| | Approved | Actual | Deviation |
| Own Generation | | | |
| Hydro | 7807.42 | 7570.60 | -236.82 |
| Thermal (BDPP & KDPP) | 0.00 | 2.66 | 2.66 |
| Wind & Solar | 16.58 | 19.87 | 3.29 |
| Sub Total | 7824.00 | 7593.12 | -230.88 |
| Power Purchase | | | |
| Central Generating Stations | 10255.41 | 9241.09 | 1014.32 |
| Long Term contracts | 7999.31 | 7652.05 | -347.26 |
| IPPs inside the State incl CPP's net injection through banking | 280.7 | 281.22 | 0.52 |
| Short Term Purchase | 0 | 872.21 | 872.21 |
| SubTotal Power Purchase | 18535.42 | 18046.57 | -488.85 |
| SubTotal Gen and Power Purchase | 26359.42 | 25639.69 | -719.73 |
| Substation auxiliary consumption | 15.58 | 16.11 | |
| Total Generation and Power Purchase available for energy sale by KSEBL | 26343.84 | 25623.58 | -720.26 |
| Energy requirement for energy sale by KSEBL | 24846.15 | 24630.78 | -215.37 |
| Surplus Sale/power transfer through banking outside the State | 1497.69 | 992.80 | -504.89 |
| Energy sale by KSEBL | 21647.29 | 21544.81 | -102.48 |
| Total energy consumption incl captive generation and and open access | 21647.29 | 21894.55 | 247.26 |

The hydro generation was less by 236.82 MU and the power purchase from other sources was less by 488.85 MU during the year 2018-19 against the approved quantum. The actual cost of power purchase against the approved figure is given below.

| Power Purchase | Amount (Rs Cr) | | |
|--------------------------------|----------------|-----------------|--------------|
| | Approved | Actual | Deviation |
| Central Generating Stations | 3884.51 | 3620.9 | -263.61 |
| Long Term contracts | 3319.64 | 3415.49 | 95.85 |
| IPPs /CPPs inside the State | 103.78 | 108.97 | 5.19 |
| Short Term Purchase | | 275.88 | 275.88 |
| Transmission charges | 539.84 | 512.07 | -27.77 |
| SubTotal Power Purchase | 7847.77 | 7933.31* | 85.54 |

*There is a difference of Rs 65.50 Cr from the power purchase expenses as per annual accounts 2018-19 due to the recovery of fixed charges for the period 2015-16 to 2017-18 of M/s RGCCPP and provision reversal of M/s Jindal Power Ltd of the year 2017-18.

It may please be noted that the actual power purchase cost as per provisional accounts increased by Rs 20.04 Cr. for FY 2018-19. The source wise details as per Provisional accounts is enclosed as **Annexure-I**. Hon'ble Commission may kindly grant permission to KSEB Ltd to file these changes along with the truing up petition for the year 2018-19.

- IV.** The present petition is filed as per Regulation 86 of the Terms and Conditions of Determination of Tariff Regulations 2018.
- V.** Honorable Commission vide order dated 08.07.2019 had approved the power purchase cost of KSEB Ltd as Rs.8613.94 crore and the quantum of generation and power purchase as 28128.83 MU, for the year 2019-20. Honourable Commission approved 6998.42 MU as internal hydro generation, 11241.96 MU from Central Generating Stations, 8647.06 MU through long term contracts.
- VI.** Hon'ble Commission is yet to adopt the rate for 350 MW of power contracted through DBFOO basis ie;100 MW from M/s Jindal India Thermal Power Limited,100 MW from Jhabua Power limited and 150 MW from Jindal Power Limited. Vide order dated 08.07.2019 Honourable Commission has considered scheduling power from these stations at the bid quantum and considered the overall purchase rate of power from M/s BALCO for the estimation of cost of power provisionally. But the variable cost of these three stations are not specified in the order. It may kindly be noted that the DBFOO framework allows pass through of actual fuel cost based on predetermined

Station Heat Rate, which shall not exceed 2350 kCal/kWh. Further, the Station Heat Rate has to be certified by the generators by following tests prescribed in the PSA prior to date of commissioning. The Station Heat rates duly certified by generators under Bid 2 viz; M/s Jindal PowerLtd (150 MW), M/s Jhabua Power Ltd (100 MW) , M/s Jindal India Thermal Power Ltd (100 MW) and M/s BALCO (100 MW) are 2327 kCal/kWh, 2347.9kCal/kWh, 2350 kCal/kWh and 2350 kCal/kWh respectively. Further, the delivered cost of coal to each generator would depend on the grade of coal supplied by Coal India Ltd or its subsidiaries, the notified price of coal of the respective mine from which coal is supplied and the cost of transportation which again depends on the mode of transportation and distance from mine. Hence, KSEBL is provisionally assessing the additional liability due to these purchases based on the actual variable cost of these stations with respect to the variable cost used for estimation in the MYT petition dated 31.10.2019.

- VII.** The actual per unit variable cost of power purchase for first quarter, from various sources, over the approved level has varied on account of changes in the price of primary fuel, secondary fuel and changes in calorific value of fuel. KSEBL prepared the fuel surcharge petition for the first quarter based on the monthly schedule approved by the Honorable Commission vide letter dated 06.08.2019.
- VIII.** An abstract of comparison of approved variable cost and actual from approved sources and the additional liability due to the variation as per fuel surcharge regulations is given in the **Table 1** and Table 2 below.

| Table-1 | | | | | |
|------------------------------------|-------------------------|------------------|--------------------------|---------------|---------------|
| SI No | Source | Approved | Actuals (Rs/ kWh) | | |
| | | (Rs/ kWh) | Apr-19 | May-19 | Jun-19 |
| Central Generating Stations | | | | | |
| 1 | NTPC-RSTPS Stage I & II | 2.49 | 2.69 | 2.55 | 2.56 |
| 2 | NTPC-RSTPS Stage III | 2.45 | 2.64 | 2.51 | 2.52 |
| 3 | Talcher | 1.73 | 1.90 | 2.07 | 1.91 |
| 4 | Simhadri TPS Stage II | 2.89 | 3.32 | 3.22 | 3.19 |
| 5 | NLC-Stage-1 | 2.64 | 2.64 | 2.64 | 2.64 |
| 6 | NLC-Stage-II | 2.64 | 2.64 | 2.64 | 2.64 |
| 7 | NLC I Expansion | 2.44 | 2.42 | 2.43 | 2.43 |
| 8 | NLC II Expansion | 2.44 | 2.48 | 2.48 | 2.48 |

| | | | | | |
|------------------------------------|-------------------------------|------|------|------|------|
| 9 | Vallur STPS | 3.13 | 3.81 | 3.78 | 4.07 |
| 10 | NTPL | 3.21 | 3.44 | 3.55 | 3.41 |
| 11 | NTPCKudgi | 3.91 | 4.06 | 3.73 | 3.76 |
| Independent Power Producers | | | | | |
| 12 | RTPS | 2.25 | 2.20 | 2.56 | 2.70 |
| 13 | Mejia | 2.41 | 2.80 | 3.16 | 2.75 |
| 14 | Maithon Power Ltd-Contract I | 2.34 | 2.69 | 2.68 | 2.73 |
| 15 | Maithon Power Ltd-Contract II | 2.34 | 2.69 | 2.68 | 2.73 |
| 16 | Jindal Power Ltd-Bid I | 1.29 | 1.29 | 1.27 | 1.31 |
| 17 | Jhabua Power Ltd-Bid I | 1.91 | 1.95 | 1.95 | 1.95 |
| 18 | Jindal Power Ltd-Bid II | 1.19 | 1.29 | 1.26 | 1.30 |
| 19 | Jhabua Power Ltd-Bid II | 1.73 | 1.87 | 1.87 | 1.87 |
| 20 | JITPL | 1.03 | 1.14 | 1.14 | 1.14 |
| 21 | BALCO | 1.19 | 1.15 | 1.15 | 1.15 |

- IX.** The summary of additional liability for first quarter as per fuel surcharge regulations is given in table below.

| Table 2 Additional liability for the first quarter 2019-20 | | | | | | | |
|---|--------------------|---------|------------------------------|---------------|----------|---------------|------------------------------|
| Source | Energy procurement | | | Per unit cost | | Add liability | |
| | Approved quantity | Actual | Admissible as per regulation | Approved | Actual | Actual | Admissible as per regulation |
| | (MU) | (MU) | (MU) | (Rs/kWh) | (Rs/kWh) | (Rs. Cr) | (Rs. Cr) |
| CGS | 2401.91 | 2295.74 | 2122.83 | 2.42 | 2.57 | 39.63 | 36.62 |
| IPPs | 2318.35 | 2089.16 | 2073.52 | 1.75 | 1.91 | 36.30 | 36.13 |
| Total | 4720.26 | 4384.90 | 4196.35 | 2.09 | 2.25 | 75.93 | 72.75 |

- X.** Honorable Commission may please note that KSEBL has incurred an additional liability of Rs 75.93 crores for purchasing 4384.90 MU of energy from various approved sources during the first quarter of FY 2019-20. Out of which Rs 72.75 Cr. is the admissible additional liability as per regulations. Details in this regard as per the provisions of fuel surcharge formula specified in 'Annexure X' to Tariff Regulations, 2018, are furnished in **Annexure II**. A summary of additional financial liability/savings during the period from April-2019 to June- 2019 is furnished in **Annexure III**.
- XI.** Honorable Commission has not approved any power purchase through short term market in the MYT order. It may please be

noted that the peak demand touched the ever high of 4316 MW during April 2019. The daily consumption also touched the ever time record value of 88.1029 MU. The average daily consumption during April and May were 80.9969 MU and 82.5640 MU respectively. In order to meet the high demand during the summer months KSEBL had to purchase power from short term market.

- XII.** Even though Honorable Commission has not approved any power purchase through short term market in the order on MYT petition dated 08.07.2019, Honorable Commission vide letter dated 05.11.2018 has approved the proposal of KSEBL to procure 150 MW power through DEEP portal during peak hours from 15.10.2018 to 31.12.2018 and from 16.02.2019 to 31.05.2019. But the procurement through DEEP portal has not materialized as the discovered prices in various tenders floated by KSEB Ltd were higher than the expected market prices. In view of the higher rates observed in the DEEP portal, KSEBL utilized various swapping proposals as well as short term procurement through Day Ahead Market and Term Ahead Market in power exchanges to meet the surge in demand at affordable cost.
- XIII.** Honourable Commission may please note that the actual demand during the quarter is increased by 354.50 MU, actual hydro generation is less by 267.96 MU, power from CGS decreased by 253.73 MU, renewable energy purchase less by 136.84 MU and power purchased from private IPPs outside the State through long term contracts decreased by 159.38 MU against the approved quantum. This resulted in the increase in power purchase through short term/power transfer through swap as well as deviation settlement mechanism, by 658.02 MU and fall in external sale by 517.11 MU.
- XIV.** KSEBL has purchased 559.78 MU from short tem market through exchanges and by means of power transfer through deviation settlement mechanism during the first quarter of FY-19 at a total amount of Rs 192.30 Cr @ Rs 3.44 per unit which is less than the average cost of power purchase approved for 2019-20. However, it is submitted that the said quantum had to be purchased against the shortfall from various sources as detailed in para xiii above, marginal cost of which is lower than the rate of short term procurement, and has created additional financial liability on the petitioner, over and above the approved power purchase cost.

XV. The month wise details of short term procurement are given in the table below.

| Table 3 Details of procurement from Short-term market and traders | | | | | | | | | |
|--|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|
| Source | April | | | May | | | June | | |
| | Quantu m | Rate | Amou nt | Quantu m | Rate | Amou nt | Quantu m | Rate | Amou nt |
| | MU | Rs/ unit | Rs Cr. | MU | Rs/ unit | Rs Cr. | MU | Rs/un it | Rs Cr. |
| IEX | 61.40 | 3.62 | 22.24 | 138.95 | 3.78 | 52.58 | 185.54 | 3.31 | 61.43 |
| PXIL | 60.73 | 4.17 | 25.34 | 0.00 | | 0.00 | 0.00 | | 0.00 |
| DSM | 31.82 | 2.66 | 8.47 | 39.44 | 2.77 | 10.94 | 41.89 | 2.71 | 11.37 |
| Total | 153.95 | 3.64 | 56.05 | 178.39 | 3.56 | 63.52 | 227.44 | 3.20 | 72.81 |

*Quantum and rate at Kerala periphery

- XVI.** In addition to the above KSEBL had entered into banking arrangements with various utilities for availing supply of power through swap contracts. KSEBL availed 98.24 MU through swap contracts. KSEBL vide petition dated 04.06.2019 has submitted the banking proposals for approval.
- XVII.** Further, Hon'ble Commission had not given approval for scheduling power from RGCCPP for the year 2019-20 vide tariff order dated 08.07.2019. But as per power purchase agreement KSEBL is bound to pay fixed charges. KSEBL has incurred Rs 15.60 crores towards fixed charges remitted to RGCCPP for the first quarter. It is humbly submitted that power purchase cost being an uncontrollable cost, Hon'ble Commission may kindly allow this at the time of truing up.
- XVIII.** KSEBL had scheduled 11.92 MU from KDPP at a discounted fuel price (for the idling stock) during April and May 2019 in order to meet the exorbitant demand in the State during summer months and to meet the reactive load in the Northern part of Kerala in view of system security considerations. Hon'ble Commission may kindly allow this at the time of truing up.
- XIX.** It is prayed that Honourable Commission may approve the additional liability of Rs 72.75 crores for the first quarter of FY2019-20 as per fuel surcharge regulations and allow KSEBL to recover this additional cost as fuel surcharge from all categories of consumers including bulk consumers/licenseses @ 13 paise per unit as per the regulations. The details of calculation are furnished in **Annexure IV.**

PRAYER

KSEBL humbly prays before this Hon'ble Commission that,

- (a) The additional financial liability incurred by KSEBL, amounting to Rs 72.75 Cr., due to the variation in power purchase cost resulting from the variation in cost of fuel for the period from April to June 2019 for the procurement/ generation of energy from various thermal sources as per fuel surcharge regulations as detailed in **Annexure II & III** to this petition may kindly be approved.

- (b) This approved additional cost may kindly be allowed to be recovered from consumers including bulk consumers and other licensees as fuel surcharge, as per the Regulation 86 of KSERC Tariff Regulations, 2018, from October 2019 onwards, @ 13 paise per unit.

**Deputy Chief Engineer (Commercial & Planning)
with full powers of Chief Engineer**

**Acc: 1. Formats 1 to 4
2. Annexure I, II, III & IV**

Formats

Format-1

| Details of Energy Billed for retail sale from April-June 2019(Provisional) | | |
|---|--|----------------|
| 1 | Energy sales with in the State | Actuals |
| (a) | Total energy sales to LT, HT and EHT consumers (excl. sales to bulk consumers/ other Licensees) (MU) | 6024.89 |
| (b) | Sale to bulk consumers/ other licensees (MU) | 162.93 |
| (c) | Total energy sales (MU) | 6187.83 |
| 2 | Energy Input (Excluding External losses) (MU) | 7068.61 |
| 3 | T & D Losses (Internal) (%) | 12.46 |

| Details of energy billed for retail sale for first quarter 2019-20 | | | | | | |
|---|-------------------|----------|-------------|----------|------------------|----------|
| Month | Retail Sales (MU) | | T&D loss(%) | | Energy Input(MU) | |
| | Actual | Approved | Actual | Approved | Actual | Approved |
| April | 2099.84 | | 12.63 | | 2403.39 | |
| May | 2132.20 | | 15.52 | | 2523.98 | |
| June | 1955.79 | | 8.66 | | 2141.24 | |
| Total | 6187.83 | | 12.46 | | 7068.61 | |

Format 2

Monthwise Details of Generation from BDPP & KDPP

| Month | Energy Generation (MU) | Aux. Consumption (MU) | Net Generation (MU) | Station Heat Rate (kCal/kWh) | Calorific value of fuel (Kcal/kg) | Quantity of fuel used | | | Price of fuel | | | |
|-------|------------------------|-----------------------|---------------------|------------------------------|-----------------------------------|-----------------------|-----------|------------------|-------------------|--------------|---------------------|--|
| | | | | LSHS | LSHS | Diesel (litre) | LSHS (MT) | Lube Oil (Litre) | Diesel (Rs/Litre) | LSHS (Rs/MT) | Lube Oil (Rs/Litre) | |
| | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---------------|------|------|-------|---------|----------|---------|---------|---------|-------|----------|--------|
| Apr-19 | | | | | | | | | | | |
| BDPP | 0.00 | 0.00 | 0.00 | | | | | | | | |
| KDPP | 5.47 | 0.91 | 0.72 | 2058.44 | 10381.00 | 9188.00 | 1084.80 | 5564.00 | 52.59 | 18354.84 | 117.65 |
| May-19 | | | | | | | | | | | |
| BDPP | 0.00 | 0.00 | 0.00 | | | | | | | | |
| KDPP | 6.45 | 0.93 | 5.52 | 2404.86 | 10381.00 | 5595.00 | 1494.92 | 6058.00 | 52.59 | 17497.13 | 117.65 |
| Jun-19 | | | | | | | | | | | |
| BDPP | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KDPP | 0.00 | 0.73 | -0.73 | 0.00 | 10381.00 | 88.00 | 0.00 | 0.00 | 54.12 | 17497.13 | 117.65 |

Format-3

Month Wise Details of Purchase of Energy (claiming for fuel surcharge cost)

| Source | Energy Purchase (MU) at exbus | | Variable Cost (Rs/kWh) | | Total variable cost (Rs.Cr) | |
|--|-------------------------------|---------------|------------------------|---------------|-----------------------------|------------------|
| | Actual (A) | Approved ('B) | Actual (C) | Approved ('D) | Actual E=A*C | Approved (F=B*D) |
| Apr-19 | | | | | | |
| Central Generating Stations | | | | | | |
| RSTPS I & II | 157.02 | 164.66 | 2.69 | 2.49 | 42.22 | 41.00 |
| RSTPS III | 41.77 | 41.39 | 2.64 | 2.45 | 11.03 | 10.14 |
| Talcher Stage-II | 270.80 | 289.76 | 1.90 | 1.73 | 51.32 | 50.13 |
| Simhadri TPS Stage II | 53.40 | 51.46 | 3.32 | 2.89 | 17.75 | 14.87 |
| NLC Stage-I | 40.22 | 27.22 | 2.64 | 2.64 | 10.61 | 7.19 |
| NLC Stage-II | 58.78 | 50.72 | 2.64 | 2.64 | 15.51 | 13.39 |
| NLC 1 Expansion | 44.93 | 38.35 | 2.42 | 2.44 | 10.89 | 9.36 |
| NLC II Expansion | 22.48 | 24.77 | 2.48 | 2.44 | 5.58 | 6.04 |
| Vallur STPS | 33.10 | 20.58 | 3.81 | 3.13 | 12.61 | 6.44 |
| NTPL | 24.99 | 44.80 | 3.44 | 3.21 | 8.60 | 14.38 |
| Kudgi | 52.76 | 66.24 | 4.06 | 3.91 | 21.41 | 25.90 |
| Sub total CGS | 800.26 | 819.95 | 2.59 | 2.43 | 207.52 | 198.84 |
| Long Term contracts with generators outside the State | | | | | | |
| DVC Reghunathpur TPS | 20.62 | 31.30 | 2.20 | 2.25 | 4.53 | 7.04 |
| DVC Mejia TPS | 56.57 | 63.44 | 2.80 | 2.41 | 15.82 | 15.29 |
| Maithon Power Ltd-Contract 1 | 93.67 | 99.31 | 2.69 | 2.34 | 25.25 | 23.24 |
| Maithon Power Ltd-Contract II | 93.67 | 99.31 | 2.69 | 2.34 | 25.25 | 23.24 |
| Jindal Power Ltd-Bid I | 116.51 | 123.12 | 1.29 | 1.29 | 15.03 | 15.88 |

| | | | | | | |
|---------------------------------------|---------|---------|------|------|--------|--------|
| Jhabhua Power Ltd -Bid I | 60.02 | 70.79 | 1.95 | 1.91 | 11.70 | 13.52 |
| Jindal Power Ltd-Bid II | 87.43 | 92.34 | 1.29 | 1.19 | 11.28 | 10.99 |
| Jhabhua Power Ltd -Bid II | 52.19 | 61.56 | 1.87 | 1.73 | 9.76 | 10.65 |
| Jindal India thermal Power Ltd | 62.17 | 61.56 | 1.14 | 1.03 | 7.09 | 6.34 |
| BALCO | 61.30 | 61.56 | 1.15 | 1.19 | 7.05 | 7.33 |
| TOTAL LTA | 704.16 | 764.29 | 1.89 | 1.75 | 132.75 | 133.52 |
| Total | 1504.42 | 1584.24 | 2.26 | 2.10 | 340.27 | 332.36 |

May-19

Central Generating Stations

| | | | | | | |
|------------------------------|---------------|---------------|-------------|-------------|---------------|---------------|
| RSTPS I & II | 162.43 | 153.95 | 2.55 | 2.49 | 41.35 | 38.33 |
| RSTPS III | 39.30 | 42.77 | 2.51 | 2.45 | 9.88 | 10.48 |
| Talcher Stage-II | 259.25 | 299.42 | 2.07 | 1.73 | 53.61 | 51.80 |
| Simhadri TPS Stage II | 64.01 | 53.18 | 3.22 | 2.89 | 20.61 | 15.37 |
| NLC Stage-I | 40.36 | 35.86 | 2.64 | 2.64 | 10.65 | 9.47 |
| NLC Stage-II | 49.86 | 52.41 | 2.64 | 2.64 | 13.16 | 13.84 |
| NLC I Expansion | 42.95 | 39.63 | 2.43 | 2.44 | 10.43 | 9.67 |
| NLC II Expansion | 24.48 | 25.60 | 2.48 | 2.44 | 6.07 | 6.25 |
| Vallur STPS | 30.78 | 31.90 | 3.78 | 3.13 | 11.63 | 9.98 |
| NTPL | 24.27 | 46.30 | 3.55 | 3.21 | 8.62 | 14.86 |
| Kudgi | 35.96 | 68.45 | 3.73 | 3.91 | 13.43 | 26.76 |
| Total | 773.66 | 849.47 | 2.58 | 2.43 | 199.46 | 206.81 |

Long Term contracts with generators outside the State

| | | | | | | |
|---------------------------------------|---------|---------|------|------|--------|--------|
| DVC Reghunathpur TPS | 15.14 | 32.35 | 2.56 | 2.25 | 3.87 | 7.28 |
| DVC Mejia TPS | 68.35 | 65.56 | 3.16 | 2.41 | 21.61 | 15.80 |
| Maithon Power Ltd-Contract 1 | 99.41 | 102.62 | 2.68 | 2.34 | 26.68 | 24.01 |
| Maithon Power Ltd-Contract II | 99.39 | 102.62 | 2.68 | 2.34 | 26.68 | 24.01 |
| Jindal Power Ltd-Bid I | 125.66 | 127.22 | 1.27 | 1.29 | 15.96 | 16.41 |
| Jhabhua Power Ltd -Bid I | 64.10 | 73.15 | 1.95 | 1.91 | 12.50 | 13.97 |
| Jindal Power Ltd-Bid II | 64.10 | 95.42 | 1.26 | 1.19 | 8.08 | 11.35 |
| Jhabhua Power Ltd -Bid II | 55.74 | 63.61 | 1.87 | 1.73 | 10.42 | 11.00 |
| Jindal India thermal Power Ltd | 55.74 | 63.61 | 1.14 | 1.03 | 6.35 | 6.55 |
| BALCO | 69.47 | 63.61 | 1.15 | 1.19 | 7.99 | 7.57 |
| TOTAL LTA | 717.10 | 789.77 | 1.95 | 1.75 | 140.15 | 137.97 |
| Total | 1490.76 | 1639.24 | 2.28 | 2.10 | 339.60 | 344.78 |

Jun-19

| Central Generating Stations | | | | | | |
|---|---------|---------|------|------|--------|--------|
| RSTPS I & II | 164.79 | 125.46 | 2.56 | 2.49 | 42.17 | 31.24 |
| RSTPS III | 45.96 | 41.39 | 2.52 | 2.45 | 11.56 | 10.14 |
| Talcher Stage-II | 241.56 | 289.76 | 1.91 | 1.73 | 46.07 | 50.13 |
| Simhadri TPS Stage II | 67.96 | 28.28 | 3.19 | 2.89 | 21.66 | 8.17 |
| NLC Stage-I | 40.73 | 27.22 | 2.64 | 2.64 | 10.75 | 7.19 |
| NLC Stage-II | 36.95 | 38.04 | 2.64 | 2.64 | 9.75 | 10.04 |
| NLC 1 Expansion | 28.01 | 38.35 | 2.43 | 2.44 | 6.80 | 9.36 |
| NLC II Expansion | 17.70 | 24.77 | 2.48 | 2.44 | 4.39 | 6.04 |
| Vallur STPS | 31.91 | 30.87 | 4.07 | 3.13 | 13.00 | 9.66 |
| NTPL | 27.27 | 22.11 | 3.41 | 3.21 | 9.31 | 7.10 |
| Kudgi | 18.97 | 66.24 | 3.76 | 3.91 | 7.13 | 25.90 |
| Total | 721.82 | 732.49 | 2.53 | 2.39 | 182.59 | 174.97 |
| Long Term contracts with generators outside the State | | | | | | |
| DVC Reghunathpur TPS | 21.41 | 31.30 | 2.70 | 2.25 | 5.78 | 7.04 |
| DVC Mejia TPS | 61.10 | 63.44 | 2.75 | 2.41 | 16.83 | 15.29 |
| Maithon Power Ltd-Contract 1 | 74.36 | 99.31 | 2.73 | 2.34 | 20.31 | 23.24 |
| Maithon Power Ltd-Contract II | 74.36 | 99.31 | 2.73 | 2.34 | 20.31 | 23.24 |
| Jindal Power Ltd-Bid I | 122.81 | 123.12 | 1.31 | 1.29 | 16.09 | 15.88 |
| Jhabhua Power Ltd -Bid I | 65.77 | 70.79 | 1.95 | 1.91 | 12.82 | 13.52 |
| Jindal Power Ltd-Bid II | 65.77 | 92.34 | 1.30 | 1.19 | 8.55 | 10.99 |
| Jhabhua Power Ltd -Bid II | 57.19 | 61.56 | 1.87 | 1.73 | 10.69 | 10.65 |
| Jindal India thermal Power Ltd | 57.19 | 61.56 | 1.14 | 1.03 | 6.52 | 6.34 |
| BALCO | 67.95 | 61.56 | 1.15 | 1.19 | 7.81 | 7.33 |
| TOTAL LTA | 667.90 | 764.29 | 1.88 | 1.75 | 125.72 | 133.52 |
| Total | 1389.72 | 1496.78 | 2.22 | 2.06 | 308.30 | 308.49 |

Format -4

Sourcewise Energy Input from April-2019 to June-2019 in MU

| Sl No | Particulars | Apr-19 | | May-19 | | Jun-19 | | Total | | |
|-------|--------------------------|--------|-------------|--------|-------------|--------|-------------|---------|-------------|------------|
| | | Actual | KSERC order | Actual | KSERC order | Actual | KSERC order | Actual | KSERC order | Difference |
| | | (MU) | (MU) | (MU) | (MU) | (MU) | (MU) | (MU) | (MU) | (MU) |
| 1 | Hydro | | | | | | | | | |
| | (a) Gross Gen | 617.42 | | 699.39 | | 377.63 | | 1694.44 | | |
| | (b) Less Aux consumption | 3.09 | | 3.50 | | 1.89 | | 8.47 | | |
| | (c) Net Hydro Gen | 614.33 | 705.09 | 695.89 | 685.29 | 375.75 | 563.56 | 1685.97 | 1953.93 | -267.96 |
| 2 | KSEB thermal | | | | | | | | | 0.00 |

| | | | | | | | | | | |
|------|------------------------------------|--------|---------|--------|---------|--------|--------|---------|---------|---------|
| | (a) BDPP | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 |
| | (b) KDPP | 5.47 | | 6.45 | | 0.00 | | 11.92 | | 11.92 |
| | (c) Subtotal | 5.47 | | 6.45 | | 0.00 | | 11.92 | | 11.92 |
| | (d) Less Aux consumption | 0.91 | | 0.93 | | 0.73 | | 2.58 | | 2.58 |
| | (e) Net BDPP+KDPP | 4.56 | 0.00 | 5.52 | 0.00 | -0.73 | 0.00 | 9.34 | | 9.34 |
| 3 | Wind Generation(net) | 0.06 | 0.09 | 0.18 | 0.14 | 0.16 | 0.13 | 0.40 | 0.36 | 0.04 |
| 4 | Solar Generation(net) | 1.07 | 2.79 | 1.02 | 2.79 | 0.77 | 2.86 | 2.86 | 8.43 | -5.57 |
| | Total own generation(net) | 620.02 | 707.96 | 702.61 | 688.22 | 375.94 | 566.55 | 1698.58 | 1962.72 | -264.15 |
| 3 | CGS (Import) | 904.83 | 1002.49 | 917.14 | 1027.47 | 902.20 | 947.92 | 2724.16 | 2977.88 | -253.72 |
| 4 | IPPs | | | | | | | | | |
| | RGCCPP | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | |
| | BSES | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | |
| | KPCL | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | |
| | Wind | 4.74 | | 14.19 | | 17.92 | | 36.86 | | |
| | Solar | 7.54 | | 7.17 | | 5.51 | | 20.22 | | |
| | Ullunkal(EDCL) | 1.44 | | 1.81 | | 1.04 | | 4.29 | | |
| | Iruttukanam Stage-I (VIYYAT) | 0.00 | | 0.00 | | 0.02 | | 0.02 | | |
| | Iruttukanam Stage-II | 0.00 | | 0.00 | | 0.00 | | 0.00 | | |
| | Karikkayam HEP(AHPL) | 2.57 | | 3.21 | | 2.24 | | 8.02 | | |
| | Meenvallom (PSHCL) | 0.05 | | 0.06 | | 0.25 | | 0.36 | | |
| | Pathamkayam | 0.00 | | 0.00 | | 0.00 | | 0.00 | | |
| | Subtotal | 16.34 | | 26.45 | | 26.99 | | 69.77 | | 69.77 |
| 6 | Purchase through Longterm contract | | | | | | | | | |
| i | DVC RTPS | 20.62 | 31.30 | 15.14 | 32.35 | 21.41 | 31.30 | 57.17 | 94.95 | -37.78 |
| ii | DVC Mejia | 56.57 | 63.44 | 68.35 | 65.56 | 61.10 | 63.44 | 186.02 | 192.44 | -6.42 |
| iii | Maithon power-1, ER | 93.67 | 99.31 | 99.41 | 102.62 | 74.36 | 99.31 | 267.45 | 301.24 | -33.79 |
| iv | Maithon power-2 ,ER | 93.67 | 99.31 | 99.39 | 102.62 | 74.36 | 99.31 | 267.43 | 301.24 | -33.81 |
| v | Jindal Power Ltd - Bid I | 116.51 | 123.12 | 125.66 | 127.22 | 122.81 | 123.12 | 364.98 | 373.46 | -8.48 |
| vi | Jhabhua Power Ltd-Bid I | 60.02 | 70.79 | 64.10 | 73.15 | 65.77 | 70.79 | 189.89 | 214.73 | -24.84 |
| vii | Jhabhua Power Ltd-Bid II | 52.19 | 61.56 | 55.74 | 63.61 | 57.19 | 61.56 | 165.12 | 186.73 | -21.61 |
| viii | Jindal Power Ltd - Bid II | 87.43 | 92.34 | 94.47 | 95.42 | 92.23 | 92.34 | 274.13 | 280.10 | -5.97 |
| ix | Jindal India Thermal Power Ltd | 62.17 | 61.56 | 63.76 | 63.61 | 62.14 | 61.56 | 188.08 | 186.73 | 1.35 |
| x | BALCO | 61.30 | 61.56 | 69.47 | 63.61 | 67.95 | 61.56 | 198.71 | 186.73 | 11.98 |
| | Sub Total | 704.16 | 764.29 | 755.49 | 789.77 | 699.32 | 764.29 | 2158.97 | 2318.35 | -159.38 |

| | | | | | | | | | | |
|--|---------------------------------------|---------|--|---------|--|---------|--|---------|--|--------|
| | Purchase through short term contracts | | | | | | | | | |
| | Purchase through exchanges | 125.32 | | 143.36 | | 190.29 | | 458.97 | | |
| | Deviation settlement mechanism | 31.82 | | 39.44 | | 41.89 | | 113.15 | | |
| | Swap purchase | 71.81 | | 14.77 | | 14.30 | | 100.88 | | 673.00 |
| | Traders | 933.11 | | 953.05 | | 945.81 | | 2831.97 | | |
| | Total Generationn & Power Purchase | 2474.30 | | 2599.25 | | 2250.94 | | 7324.49 | | |
| | PGCIL losses | 70.85 | | 75.27 | | 69.95 | | 216.07 | | |
| | Net Power Purchase | 2403.46 | | 2523.98 | | 2180.98 | | 7108.42 | | |
| | Sale outside the State/Swap | -0.06 | | 0.00 | | -39.74 | | -39.81 | | |
| | Net Gen and Power Purchase | 2403.39 | | 2523.98 | | 2141.24 | | 7068.61 | | |

ANNEXURE II

DETAILS OF ADDITIONAL LIABILITY

1. Details of Power Purchases - Energy procurement from Central Generating Stations during the period April to June 2019

| Table 1 - Central Generating Stations | | | | | | | |
|--|---------------------------------------|--------------------|------------------------------------|--|----------------------|---------------------------------|------------------------|
| Mont h | Energy purchased at ex bus | | | Variable cost of power Purchase at ex bus | | Additional Liability | |
| | Approv ed | Actu al | Admissi ble for FPA | Approv ed | Actual | Actua l | Admissi ble |
| | (MU) | (MU) | (MU) | (Rs/kW h) | (Rs/k Wh) | (Rs. Cr) | (Rs. Cr) |
| 1.1 NTPC-RSTPS Stage I & II | | | | | | | |
| Apr-19 | 164.66 | 157.0 2 | 157.02 | 2.49 | 2.69 | 3.12 | 3.12 |
| May-19 | 153.95 | 162.4 3 | 153.95 | 2.49 | 2.55 | 0.91 | 0.86 |
| Jun-19 | 125.46 | 164.7 9 | 125.46 | 2.49 | 2.56 | 1.14 | 0.87 |
| Total | 444.07 | 484.2 5 | 436.43 | 2.49 | 2.60 | 5.17 | 4.85 |
| 1.2 NTPC-RSTPS Stage III | | | | | | | |
| Apr-19 | 41.39 | 41.77 | 41.39 | 2.45 | 2.64 | 0.79 | 0.79 |
| May-19 | 42.77 | 39.30 | 39.30 | 2.45 | 2.51 | 0.25 | 0.25 |
| Jun-19 | 41.39 | 45.96 | 41.39 | 2.45 | 2.52 | 0.30 | 0.27 |
| Total | 125.55 | 127.0 4 | 122.08 | 2.45 | 2.56 | 1.34 | 1.31 |
| 1.3 NTPC Talcher-II STPS | | | | | | | |
| Apr-19 | 289.76 | 270.80 | 270.80 | 1.73 | 1.90 | 4.47 | 4.47 |
| May-19 | 299.42 | 259.25 | 259.25 | 1.73 | 2.07 | 8.76 | 8.76 |
| Jun-19 | 289.76 | 241.56 | 241.56 | 1.73 | 1.91 | 4.28 | 4.28 |
| Total | 878.94 | 771.6 0 | 771.60 | 1.73 | 1.96 | 17.51 | 17.51 |
| 1.4 NLC - TPS - II Stage 1 | | | | | | | |
| Apr-19 | 27.22 | 40.22 | 27.22 | 2.64 | 2.64 | -0.01 | -0.01 |
| May-19 | 35.86 | 40.36 | 35.86 | 2.64 | 2.64 | 0.00 | 0.00 |

| | | | | | | | |
|---|-----------------------------------|---------------|---------------------------|--|-----------------|-----------------------------|-------------------|
| Jun-19 | 27.22 | 40.73 | 27.22 | 2.64 | 2.64 | 0.00 | 0.00 |
| Total | 90.30 | 121.31 | 90.30 | 2.64 | 2.64 | -0.02 | -0.01 |
| 1.5 NLC-TPS-II Stage-2 | | | | | | | |
| Apr-19 | 50.72 | 58.78 | 50.72 | 2.64 | 2.64 | -0.01 | -0.01 |
| May-19 | 52.41 | 49.86 | 49.86 | 2.64 | 2.64 | 0.00 | 0.00 |
| Jun-19 | 38.04 | 36.95 | 36.95 | 2.64 | 2.64 | 0.00 | 0.00 |
| Total | 141.17 | 145.60 | 137.54 | 2.64 | 2.64 | -0.02 | -0.02 |
| Month | Energy purchased at ex bus | | | Variable cost of power purchase at ex bus | | Additional Liability | |
| | Approved | Actual | Admissible for FPA | Approved | Actual | Actual | Admissible |
| | (MU) | (MU) | (MU) | (Rs/kWh) | (Rs/kWh) | (Rs. Cr) | (Rs. Cr) |
| 1.6 NLC-TPS-I Expansion | | | | | | | |
| Apr-19 | 38.35 | 44.93 | 38.35 | 2.44 | 2.42 | -0.08 | -0.07 |
| May-19 | 39.63 | 42.95 | 39.63 | 2.44 | 2.43 | -0.05 | -0.04 |
| Jun-19 | 38.35 | 28.01 | 28.01 | 2.44 | 2.43 | -0.03 | -0.03 |
| Total | 116.33 | 115.89 | 105.99 | 2.44 | 2.43 | -0.15 | -0.14 |
| 1.7 NLC-TPS-II Expansion | | | | | | | |
| Apr-19 | 24.77 | 22.48 | 22.48 | 2.44 | 2.48 | 0.09 | 0.09 |
| May-19 | 25.60 | 24.48 | 24.48 | 2.44 | 2.48 | 0.10 | 0.10 |
| Jun-19 | 24.77 | 17.70 | 17.70 | 2.44 | 2.48 | 0.07 | 0.07 |
| Total | 75.14 | 64.66 | 64.66 | 2.44 | 2.48 | 0.27 | 0.27 |
| 1.8 NTPC Simhadri TPS - Stage II | | | | | | | |
| Apr-19 | 51.46 | 53.40 | 51.46 | 2.89 | 3.32 | 2.31 | 2.23 |
| May-19 | 53.18 | 64.01 | 53.18 | 2.89 | 3.22 | 2.11 | 1.75 |
| Jun-19 | 28.28 | 67.96 | 28.28 | 2.89 | 3.19 | 2.02 | 0.84 |
| Total | 132.92 | 185.37 | 132.92 | 2.89 | 3.24 | 6.44 | 4.82 |
| 1.9 Vallur STPS | | | | | | | |
| Apr-19 | 20.58 | 33.10 | 20.58 | 3.13 | 3.81 | 2.25 | 1.40 |
| May-19 | 31.90 | 30.78 | 30.78 | 3.13 | 3.78 | 1.99 | 1.99 |
| Jun-19 | 30.87 | 31.91 | 30.87 | 3.13 | 4.07 | 3.01 | 2.91 |
| Total | 83.35 | 95.80 | 82.23 | 3.13 | 3.89 | 7.25 | 6.31 |
| 1.10 NTPL | | | | | | | |
| Apr-19 | 44.80 | 24.99 | 24.99 | 3.21 | 3.44 | 0.58 | 0.58 |
| May-19 | 46.30 | 24.27 | 24.27 | 3.21 | 3.55 | 0.83 | 0.83 |

| | | | | | | | |
|-----------------------------------|--------|--------|--------|------|------|-------|-------|
| Jun-19 | 22.11 | 27.27 | 22.11 | 3.21 | 3.41 | 0.55 | 0.45 |
| Total | 113.21 | 76.53 | 71.37 | 3.21 | 3.47 | 1.97 | 1.87 |
| 1.11 NTPC | | | | | | | |
| KUDGI(Unit I,II & III) | | | | | | | |
| Apr-19 | 66.24 | 52.76 | 52.76 | 3.91 | 4.06 | 0.78 | 0.78 |
| May-19 | 68.45 | 35.96 | 35.96 | 3.91 | 3.73 | -0.63 | -0.63 |
| Jun-19 | 66.24 | 18.97 | 18.97 | 3.91 | 3.76 | -0.29 | -0.29 |
| Total | 200.93 | 107.70 | 107.70 | 3.91 | 3.90 | -0.14 | -0.14 |

2. Details of Power Purchases - Energy procurement from Private Generators Outside the State during the period April to June 2019

| Table 2 - Private Generators Outside the State | | | | | | | |
|---|----------------------------|--------|--------------------|---|----------|----------------------|------------|
| Month | Energy purchased at ex bus | | | Variable cost of power Purchase at ex bus | | Additional Liability | |
| | Approved | Actual | Admissible for FPA | Approved | Actual | Actual | Admissible |
| | (MU) | (MU) | (MU) | (Rs/kWh) | (Rs/kWh) | (Rs. Cr) | (Rs. Cr) |
| 2.1 Maithon Power Ltd (150 MW) - Contract I | | | | | | | |
| Apr-19 | 99.31 | 93.67 | 93.67 | 2.34 | 2.69 | 3.33 | 3.33 |
| May-19 | 102.62 | 99.41 | 99.41 | 2.34 | 2.68 | 3.42 | 3.42 |
| Jun-19 | 99.31 | 74.36 | 74.36 | 2.34 | 2.73 | 2.91 | 2.91 |
| Total | 301.24 | 267.45 | 267.45 | 2.34 | 2.70 | 9.65 | 9.65 |
| 2.2 Maithon Power Ltd (150 MW) - Contract II | | | | | | | |
| Apr-19 | 99.31 | 93.67 | 93.67 | 2.34 | 2.69 | 3.33 | 3.33 |
| May-19 | 102.62 | 99.39 | 99.39 | 2.34 | 2.68 | 3.42 | 3.42 |
| Jun-19 | 99.31 | 74.36 | 74.36 | 2.34 | 2.73 | 2.91 | 2.91 |
| Total | 301.24 | 267.43 | 267.43 | 2.34 | 2.70 | 9.65 | 9.65 |
| 2.3 Jindal Power Limited -Bid I (200 MW) | | | | | | | |
| Apr-19 | 123.12 | 116.51 | 116.51 | 1.29 | 1.29 | 0.00 | 0.00 |
| May-19 | 127.22 | 125.66 | 125.66 | 1.29 | 1.27 | -0.25 | -0.25 |

| | | | | | | | |
|---|----------------------------|--------|--------------------|---|----------|----------------------|------------|
| Jun-19 | 123.12 | 122.81 | 122.81 | 1.29 | 1.31 | 0.25 | 0.25 |
| Total | 373.46 | 364.98 | 364.98 | 1.29 | 1.29 | -0.01 | -0.01 |
| 2.4 Jhabua Power Limited-Bid I (115 MW) | | | | | | | |
| Apr-19 | 70.79 | 60.02 | 60.02 | 1.91 | 1.95 | 0.24 | 0.24 |
| May-19 | 73.15 | 64.10 | 64.10 | 1.91 | 1.95 | 0.26 | 0.26 |
| Jun-19 | 70.79 | 65.77 | 65.77 | 1.91 | 1.95 | 0.26 | 0.26 |
| Total | 214.73 | 189.89 | 189.89 | 1.91 | 1.95 | 0.76 | 0.76 |
| 2.5 Jindal Power Limited -Bid II (150 MW) | | | | | | | |
| Apr-19 | 92.34 | 87.43 | 87.43 | 1.19 | 1.29 | 0.87 | 0.87 |
| May-19 | 95.42 | 64.10 | 64.10 | 1.19 | 1.26 | 0.45 | 0.45 |
| Jun-19 | 92.34 | 65.77 | 65.77 | 1.19 | 1.30 | 0.72 | 0.72 |
| Total | 280.10 | 217.30 | 217.30 | 1.19 | 1.28 | 2.05 | 2.05 |
| Month | Energy purchased at ex bus | | | Variable cost of power Purchase at ex bus | | Additional Liability | |
| | Approved | Actual | Admissible for FPA | Approved | Actual | Actual | Admissible |
| | (MU) | (MU) | (MU) | (Rs/kWh) | (Rs/kWh) | (Rs. Cr) | (Rs. Cr) |
| 2.6 Jhabua Power Limited-Bid II (100 MW) | | | | | | | |
| Apr-19 | 61.56 | 52.19 | 52.19 | 1.73 | 1.87 | 0.73 | 0.73 |
| May-19 | 63.61 | 55.74 | 55.74 | 1.73 | 1.87 | 0.78 | 0.78 |
| Jun-19 | 61.56 | 57.19 | 57.19 | 1.73 | 1.87 | 0.80 | 0.80 |
| Total | 186.73 | 165.12 | 165.12 | 1.73 | 1.87 | 2.31 | 2.31 |
| 2.7 Jindal India Thermal Power Limited-Bid II (100 MW) | | | | | | | |
| Apr-19 | 61.56 | 62.17 | 61.56 | 1.03 | 1.14 | 0.68 | 0.68 |
| May-19 | 63.61 | 55.74 | 55.74 | 1.03 | 1.14 | 0.61 | 0.61 |
| Jun-19 | 61.56 | 57.19 | 57.19 | 1.03 | 1.14 | 0.63 | 0.63 |
| Total | 186.73 | 175.10 | 174.49 | 1.03 | 1.14 | 1.93 | 1.92 |
| 2.9 BALCO - BID II(100 MW) | | | | | | | |
| Apr-19 | 61.56 | 61.30 | 61.30 | 1.19 | 1.15 | -0.25 | -0.25 |
| May-19 | 63.61 | 69.47 | 63.61 | 1.19 | 1.15 | -0.28 | -0.25 |

| | | | | | | | |
|--------------------------------|--------|--------|--------|------|------|-------|-------|
| Jun-19 | 61.56 | 67.95 | 61.56 | 1.19 | 1.15 | -0.27 | -0.25 |
| Total | 186.73 | 198.71 | 186.47 | 1.19 | 1.15 | -0.79 | -0.75 |
| 2.10 DVC Mejia (100 MW) | | | | | | | |
| Apr-19 | 63.44 | 56.57 | 56.57 | 2.41 | 2.80 | 2.19 | 2.19 |
| May-19 | 65.56 | 68.35 | 65.56 | 2.41 | 3.16 | 5.14 | 4.93 |
| Jun-19 | 63.44 | 61.10 | 61.10 | 2.41 | 2.75 | 2.10 | 2.10 |
| Total | 192.44 | 186.02 | 183.23 | 2.41 | 2.92 | 9.43 | 9.22 |
| 2.11 DVC RTPS (50 MW) | | | | | | | |
| Apr-19 | 31.30 | 20.62 | 20.62 | 2.25 | 2.20 | -0.11 | -0.11 |
| May-19 | 32.35 | 15.14 | 15.14 | 2.25 | 2.56 | 0.47 | 0.47 |
| Jun-19 | 31.30 | 21.41 | 21.41 | 2.25 | 2.70 | 0.97 | 0.97 |
| Total | 94.95 | 57.17 | 57.17 | 2.25 | 2.48 | 1.32 | 1.32 |

3 Summary of total additional liability for the first quarter

The summary of additional liability as per fuel surcharge regulations is given below.

| Source | Approved energy requirement (MU) | Actual Energy procurement (MU) | Per unit cost | | Additional liability admissible as per fuel surcharge regulations (Rs. Cr) |
|------------------------------|-------------------------------------|-----------------------------------|----------------------|--------------------|---|
| | | | Approved (Rs/kWh) | Actual (Rs/kWh) | |
| CGS | | | | | |
| RSTPS I & II | 444.07 | 484.25 | 2.49 | 2.60 | 4.85 |
| RSTPS III | 125.55 | 127.04 | 2.69 | 2.56 | 1.31 |
| Talcher Stage-II | 878.94 | 771.60 | 1.73 | 1.96 | 17.51 |
| Simhadri TPS Stage II | 132.92 | 185.37 | 2.89 | 3.24 | 4.82 |
| NLC Stage-I | 90.30 | 121.31 | 2.64 | 2.64 | -0.01 |
| NLC Stage-II | 141.17 | 145.60 | 2.64 | 2.64 | -0.02 |
| NLC 1 Expansion | 116.33 | 115.89 | 2.44 | 2.43 | -0.14 |
| NLC II Expansion | 75.14 | 64.66 | 2.44 | 2.48 | 0.27 |
| Vallur STPS | 83.35 | 95.80 | 3.13 | 3.89 | 6.31 |
| NTPL | 113.21 | 76.53 | 3.21 | 3.47 | 1.87 |

| | | | | | |
|---------------------------------------|----------------|----------------|-------------|-------------|--------------|
| Kudgi | 200.93 | 107.70 | 3.91 | 3.90 | -0.14 |
| Sub Total CGS | 2401.91 | 2295.74 | 2.42 | 2.57 | 36.62 |
| Private IPPs outside the State | | | | | |
| DVC RTPS | 94.95 | 57.17 | 2.25 | 2.48 | 1.32 |
| DVC Mejia | 192.44 | 186.02 | 2.41 | 2.92 | 9.22 |
| Maithon Power Ltd-I, ER | 301.24 | 267.45 | 2.34 | 2.70 | 9.65 |
| Maithon Power Ltd-II, ER | 301.24 | 267.43 | 2.34 | 2.70 | 9.65 |
| Jindal Power Ltd-Bid I | 373.46 | 364.98 | 1.29 | 1.29 | -0.01 |
| Jhabua Power Ltd-Bid I | 214.73 | 189.89 | 1.91 | 1.95 | 0.76 |
| Jindal Power Ltd-Bid II | 280.10 | 217.30 | 1.19 | 1.28 | 2.05 |
| Jhabua Power Ltd-Bid II | 186.73 | 165.12 | 1.73 | 1.87 | 2.31 |
| JITPL | 186.73 | 175.10 | 1.03 | 1.14 | 1.92 |
| BALCO | 186.73 | 198.71 | 1.19 | 1.17 | -0.75 |
| Sub Total IPPS | 2318.35 | 2089.16 | 1.72 | 1.91 | 36.13 |
| Total | 4720.26 | 4384.90 | 2.07 | 2.25 | 72.75 |

Annexure-III

| Source | Approved energy requirement (MU) | Actual Energy procurement (MU) | Per unit cost | | Additional liability on account of variation in power purchase cost of approved sources | |
|------------------------------|-------------------------------------|-----------------------------------|---------------|----------|---|--|
| | | | Approved | Actual | Actual | Admissible as per fuel surcharge regulations |
| | | | (Rs/kWh) | (Rs/kWh) | (Rs. Cr) | (Rs. Cr) |
| CGS | | | | | | |
| RSTPS I & II | 444.07 | 484.25 | 2.49 | 2.60 | 5.17 | 4.85 |
| RSTPS III | 125.55 | 127.04 | 2.69 | 2.56 | 1.34 | 1.31 |
| Talcher Stage-II | 878.94 | 771.60 | 1.73 | 1.96 | 17.51 | 17.51 |
| Simhadri TPS Stage II | 132.92 | 185.37 | 2.89 | 3.24 | 6.44 | 4.82 |
| NLC Stage-I | 90.30 | 121.31 | 2.64 | 2.64 | -0.02 | -0.01 |
| NLC Stage-II | 141.17 | 145.60 | 2.64 | 2.64 | -0.02 | -0.02 |
| NLC 1 Expansion | 116.33 | 115.89 | 2.44 | 2.43 | -0.15 | -0.14 |
| NLC II Expansion | 75.14 | 64.66 | 2.44 | 2.48 | 0.27 | 0.27 |
| Vallur STPS | 83.35 | 95.80 | 3.13 | 3.89 | 7.25 | 6.31 |
| NTPL | 113.21 | 76.53 | 3.21 | 3.47 | 1.97 | 1.87 |

| | | | | | | |
|---------------------------------------|----------------|----------------|-------------|-------------|--------------|--------------|
| Kudgi | 200.93 | 107.70 | 3.91 | 3.90 | -0.14 | -0.14 |
| Sub Total CGS | 2401.91 | 2295.74 | 2.42 | 2.57 | 39.63 | 36.62 |
| Private IPPs outside the State | | | | | | |
| DVC RTPS | 94.95 | 57.17 | 2.25 | 2.48 | 1.32 | 1.32 |
| DVC Mejia | 192.44 | 186.02 | 2.41 | 2.92 | 9.43 | 9.22 |
| Maithon Power Ltd-I, ER | 301.24 | 267.45 | 2.34 | 2.70 | 9.65 | 9.65 |
| Maithon Power Ltd-II, ER | 301.24 | 267.43 | 2.34 | 2.70 | 9.65 | 9.65 |
| Jindal Power Ltd-Bid I | 373.46 | 364.98 | 1.29 | 1.29 | -0.01 | -0.01 |
| Jhabua Power Ltd-Bid I | 214.73 | 189.89 | 1.91 | 1.95 | 0.76 | 0.76 |
| Jindal Power Ltd-Bid II* | 280.10 | 217.30 | 1.19 | 1.28 | 2.05 | 2.05 |
| Jhabua Power Ltd-Bid II* | 186.73 | 165.12 | 1.73 | 1.87 | 2.31 | 2.31 |
| JITPL* | 186.73 | 175.10 | 1.03 | 1.14 | 1.93 | 1.92 |
| BALCO | 186.73 | 198.71 | 1.19 | 1.17 | -0.79 | -0.75 |
| Sub Total IPPS | 2318.35 | 2089.16 | 1.72 | 1.91 | 36.30 | 36.13 |
| Total | 4720.26 | 4384.90 | 2.07 | 2.25 | 75.93 | 72.75 |

*Variable cost of these stations were not separately approved. Thus variable cost as per projection is approved.

Annexure-IV

| Rate of Fuel Surcharge in Paise per unit | |
|--|---------|
| Amount of Fuel Surcharge (F) in crores | 72.75 |
| Energy billed for Retail sale to whole consumers for the period from October to December 2019 (E) in MU | 5683.94 |
| Energy billed for domestic consumers having monthly consumption less than 20 units and connected load below 500 W for the period October to December 2019 in MU | 0.22 |
| Energy billed for Retail sale to consumers other than the domestic consumers with connected load less than 500 W and monthly consumption below 20 units consumers for the period from October to December 2019 (E) in MU | 5683.72 |
| Rate of fuel surcharge in Paise per unit | 12.80 |
| Rounded to 13 Paise per unit | |