

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

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

**FILING NO**            **/2020**

**CASE No.**

**IN THE MATTER OF:**

Filing of petition on 'Proposals to recover the additional cost incurred during the period April 2020 to June 2020 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, Vidyuthi 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 2020 to June 2020 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 55 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, Vidyuthi 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 9th day of September 2020 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,  
Vidyuthi Bhavanam, Pattom  
Thiruvananthapuram – 695 004

**VERIFICATION**

I, the above named deponent, solemnly affirm at Thiruvananthapuram on this, the 9<sup>th</sup> day of September 2020 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  
Vidyuthi 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 2020 to June 2020 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 present petition is filed as per Regulation 86 of the KSERC (Terms and Conditions of Determination of Tariff), Regulations 2018.
- IV. KSEBL has power allocation from various Central Generating Stations and KSEBL has entered into long Term agreements with various generators for meeting the demand of the State. The details are enclosed as **Annexure-I**.
- V. Honorable Commission vide order dated 08.07.2019 had approved the power purchase cost of KSEB Ltd as Rs.8797.94 crore and the quantum of generation and power purchase as 28478.89 MU, for the year 2020-21. Honourable Commission approved 6844.83 MU as internal hydro generation, 11274.77 MU from Central

Generating Stations, 8647.06 MU through long term contracts. 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. The monthly schedule approved by Honorable Commission is attached as **Annexure-II(a)**.

- VI. There is variation in energy availability as well as scheduling from various generating stations from that of the quantum approved by Honorable Commission owing to the following reasons.
- i. Due to change in annual maintenance schedule
  - ii. Due to unscheduled outages in generating stations as well as transmission lines
  - iii. Due to variation in normative auxiliary consumption and plant load factor of various CGS in the Tariff Regulations 2019-2024 issued by CERC in March 2019, from those considered while issuing tariff order dated 08.07.2019.
- VII. KSEBL estimated the energy availability of the Central Generating Stations in the MYT petition based on the maintenance schedule of past years. The annual maintenance schedule of the CGS for the year 2020-21 was not published at the time of preparation of MYT petition. The actual maintenance schedule for FY 2020-21 has varied from the estimate in MYT petition resulting in variation in energy availability. In addition to the scheduled outages, unscheduled outages of CGS can also occur due to various reasons including coal shortage. Further, the CERC Tariff regulations for the control period from 2019-2024 came into force subsequently and there is difference in normative PLF, PAF and auxiliary consumption of certain stations. It may please be noted that the monthly fixed charges payable to a thermal generating station is based on percentage Plant Availability Factor achieved upto the end of that month. Also, the scheduling of CGS and IPPs are being strictly monitored on a day today basis so as to ensure that the generators are not providing power to other utilities by backing off supply to KSEBL and stations are scheduled on the basis of merit order dispatch subjected to technical minimum. KSEB Ltd has constituted a “market monitoring committee” with the objective of monitoring market on a daily basis and is closely monitoring the schedule of all generators as available in websites of respective RLDCs, the statutory agency for scheduling and despatching of ISGS in order to ensure that the generators are abiding by the provisions of PPA/PSA. The details of station wise availability and the reasons for reduction in availability are enclosed as **Annexure-II(b)**. The actual availability for the month April to June are indicated in the REA statements of SRPC enclosed as **Annexure III**.
- VIII. Though adoption of the tariff for 350 MW 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 is awaited, Honorable Commission had allowed drawal of power based on these contracts and considered scheduling power from these stations and also considered the tariff of power from M/s BALCO for the provisional estimation of cost of power while approving the ARR & ERC of the

control period 2018-22 vide MYT order 08.07.2019. Since Honorable Commission vide order dated 30.08.2016 has already adopted the tariff under bid-2 as Rs 4.29 per unit as on bid date which is the tariff matched by these generators and also approved the quantum to be scheduled from these stations, KSEBL has been considering the additional liability of these stations also while claiming fuel surcharge.

- IX. But, Honorable Commission vide order dated 14.02.2020, while approving the fuel surcharge applicable with effect from 14.02.2020, has not approved the additional liability incurred for procuring power from M/s Jindal Power Ltd-Bid II (150MW), M/s Jhabua Power Ltd (100 MW) and Jindal India Thermal Power Ltd(100 MW) citing that, the approval of the power purchase from these stations shall be given, only after getting approvals from Government of India for the deviations from the standard bidding documents issued by Ministry of Power, Government of India and after getting the approval of the Government of Kerala on the entire power purchase under DBFOO. The Commission pointed out that the actual tariff paid by KSEB Ltd for procuring power from these three stations were much higher and amounted to Rs.22.38 crore more when compared to the L1 rate of Rs.4.15 per unit paid to BALCO which is the L1 of Bid-2 and reiterated that, during the truing up of accounts for the respective financial years, such excess amount incurred for procuring power from these three generators shall not be considered, unless KSEB Ltd gets the approval of power purchase from Government of India for the deviations from the guidelines and on getting the approval of the Government of Kerala on the entire power purchase under DBFOO.
- X. The rate of power from M/s BALCO (L1 of Bid 2) used for comparison in the order dated 14.02.2020 is Rs 4.15 per unit. But this is not the discovered L1 rate approved by the Commission (Rs 4.29 per unit). On the other hand, it is the average rate of power from BALCO for the first quarter of FY-19. As such the rate Rs 4.15 per unit used for comparison is not a relevant figure. Also this rate is dependent on a number of station specific internal parameters as well as external parameters and is bound to change from month to month, which are to be administered as per the provisions in the DBFOO PSAs executed as per the standard bidding documents issued by MoP under Section 63 of the Electricity Act. The charges payable in each month are dynamic in nature based on various provisions in PSAs.
- XI. The power from all these Generators were scheduled by the petitioner based on orders of the Honorable Commission and the payments are strictly in accordance with the terms of PSA notified by MoP, Gol.
- XII. As per Section 63 of Electricity Act 2003, Honorable Commission shall adopt the tariff if such tariff has been determined through transparent process of bidding in accordance with the guidelines issued by the Central Government. The discovered rate of Rs 4.29 per unit in the Bid II quoted by M/s BALCO was already adopted by the

Honorable Commission. Further, Government of India amended the guidelines under Section 63 of Electricity Act 2003 to enable matching of the discovered rate by other bidders in case the bid quantum cannot be met from the bid of L1 bidder. In the instant case, M/s Jindal Power Ltd-Bid II (150MW), M/s Jhabua Power Ltd (100 MW) and M/s Jindal India Thermal Power Ltd (100 MW) (L2,L3& L4 of Bid II) had matched the L1 rate as on bid date and thus in view of the adoption of discovered rate of Rs 4.29 per unit in Bid II by Honorable Commission there shall be no ambiguity in passing on the same, unless Honorable Commission disallows drawal of power from these stations.

- XIII. But in the order dated 14.02.2020 , Honorable Commission used the rate of Rs 4.15 per unit for the above mentioned three stations which is the average actual cost of power purchase from M/s BALCO for the first quarter of financial year 2018-19. It is submitted that the petitioner had diligently followed the provisions in the PSAs while administering payments to these generators based on the KSERC adopted tariff of Rs 4.29 per unit under Bid II. In the case of power purchase through DBFOO contracts, the PSA notified by MoP , Gol under Section 63 of EA 2003 prescribes regulating FC based on predetermined parameters and allows pass through of actual fuel cost based on certain parameters . This will not be the same for different generators having fuel supply from different coal suppliers. The variable cost is dependent on the delivered cost of fuel supplied by respective fuel supplier with whom the supplier has executed fuel supply agreement. As the source of fuel, distance from source of fuel (mine) and grade of coal varies for different generators the variable charges for each generators will be different. Even though the tariff discovered as on bid date as agreed by all the successful bidders under Bid 2 is the same ie; Rs 4.29 per kWh, the same can be administered only in accordance with the provisions in PSAs. The PSAs executed with each supplier is independent in nature and is to be administered accordingly. Hence the actual monthly cost of power from approved sources should be based on the respective PSAs of the generating stations. Hence the disallowance as done vide order dated 14.02.2020 is not going hand in hand with the provisions of the PSA notified by Gol in accordance with Section 63 of Electricity Act.
- XIV. Honorable Commission vide order dated 30.08.2016 has already adopted the tariff under bid-2 as Rs 4.29 per unit as on bid date. Even though PSA in respect of L2, L3 and L4 are awaiting approval of Honorable Commission, the rate in respect of generators under bid 2 cannot be redetermined. As per the provisions of Electricity Act 2003 and the judgment of Hon'ble Supreme Court dated 11.04.2017 in CA 5399-5400 of 2016 and also as per the various orders of Hon'ble Commission, the State Commission do not have jurisdiction in respect of determination or redetermination of tariff of interstate generating stations. The terms and conditions of PSA has to be as per the standard bid documents notified by Gol under section 63 of EA 2003. As the tariff under bid 2 is adopted by the this Honorable Commission and the power is

allowed to be drawn in respect of L2, L3 and L4 generators, the rate of power in respect of these generators during the tenure of PSA can be allowed by this Honorable Commission only in accordance with the standard PSA notified by MoP, Gol. Hence the order of Honorable Commission to pass on the cost in respect of other generators at the rate of BALCO is an apparent error on face of records.

- XV. Similarly Honorable Commission vide order dated 27.04.2020 on OA 02/2020 while approving the fuel surcharge applicable with effect from 14.02.2020 , has not approved the additional liability incurred for procuring power from M/s Jindal Power Ltd-Bid II (150MW), M/s Jhabua Power Ltd (100 MW) and Jindal India Thermal Power Ltd(100 MW) citing that , the approval of the power purchase from these stations shall be given, only after getting approvals from Government of India for the deviations from the standard bidding documents issued by Ministry of Power, Government of India and after getting the approval of the Government of Kerala on the entire power purchase under DBFOO and reiterated the stand that excess amount ,if any, incurred for procuring power from these generators shall not be considered, unless KSEB Ltd gets the approval of power purchase from the Government.
- XVI. Aggrieved by the two orders dated 14.02.2020 and 27.04.2020, KSEBL filed review petitions on 30.03.2020 and 04.06.2020 respectively seeking review of the order dated 14.02.2020 and 27.04.2020 respectively and prayed to allow passing on the additional fuel cost incurred against PSAs with M/s Jindal Power Ltd(150 MW), M/s Jhabua Power Ltd(100 MW) and M/s Jindal India Thermal Power Ltd(100 MW). Honorable Commission vide order dated 14.08.2020 rejected the prayers of the review petitions dated 30.03.2020 and 04.06.2020.
- XVII. As the matter was under review during the first quarter, KSEBL has effected the payments for the above three stations as per the condition in the PSA upto July 2020. Hence KSEBL is claiming the additional liability of these three stations in this petition. The variable cost of these three stations is not specified in the order dated 08.07.2019. So KSEBL is provisionally assessing the additional liability due to these purchases based on the actual variable cost/fuel cost of these stations with respect to the variable cost used for estimation in the MYT petition dated 31.10.2018.
- XVIII. In accordance with the directions of Honorable Commission, KSEBL has decided to effect the payment of the above three stations provisionally at the rate of M/s BALCO at Kerala periphery from August 2020 onwards. KSEBL has also decided to file a petition before Honorable Commission with a prayer to issue appropriate directions on the drawal of power contracted against these PSAs if Hon'ble Commission is not inclined to pass on the liabilities of 350MW PSAs executed on DBFOO basis under Bid 2. In this context KEBL humbly requested to pass on the additional liability of these stations through fuel surcharge during the first quarter of financial year 2021.

- XIX. KSEBL is preparing the current petition based on invoices of April ,May and June raised as per the final REA statement issued by SRPC for the month of April and May and provisional REA for the month of June 2020. Monthly invoices raised by generation companies whose tariff is approved by CERC comprises of Fixed Charges and Variable Charges. These Fixed Charges and variable charges payable to a thermal generating station for a calendar month is calculated in accordance with the formula specified in the tariff regulation for the control period. In the case of variable charges, the landed cost of fuel for the month is verified with the details in Form 15 where the price of fuel corresponding to the grade and quality of fuel is taken from the latest price notification of Coal India Ltd/Singareni Collieries inclusive of royalty, taxes and duties as applicable and the transportation cost by rail or any other means is taken from the latest freight charges of railways. In addition, the RLDC charges, incentive claims and the various supplementary claims are verified in line with the corresponding regulations/CERC orders. In the case of IPPs the invoices are processed as per the provisions in PPA.
- XX. The actual per unit variable cost of power purchase for first quarter, from various sources, over the approved level has varied mainly on account of changes in the variable cost due to the variation in normative SHR and auxiliary consumption (consequent to the notification of CERC Tariff Regulation for control period 2019-24), the variation in the price of primary fuel, secondary fuel and changes in calorific value of fuel, cost of transportation of fuel. There is non-uniform variation in energy charge and increase in the same from the estimated figures, which are attributable to the following.
- i. Honorable Commission approved the variable charges for the year 2020-21 of Central Generating Stations and IPPS whose tariff is determined by Central Electricity Regulatory Commission(CERC) , after giving an escalation of 2% on the actual variable charges for the year 2018-19 on an annual basis ,vide order dated 08.07.2019. Central Electricity Regulatory Commission notified Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 dated 07.03.2019, with effect from 01.04.2019. Thus there was revision in normative station heat rate and auxiliary consumption for all Central Generating Stations and stations whose tariff is determined by CERC, through the notified Tariff Regulations, 2019 dated 07.03.2019, due to which energy charges increased considerably compared to last quarter of FY-19. The impact of CERC Tariff regulations was not accounted in the tariff of 2020-2021 approved in the MYT order.
  - ii. In addition to the above, the variation of energy charges depends on the price notified for each mine which are different from mine to mine, grade of coal, blending ratio of imported coal and domestic coal , receipt of coal from different sources, distance from source( Coal mines), mode of transport etc.
  - iii. In the case of coal based stations the linkage of fuel is mainly from Coal India Ltd (CIL) and Singareni Collieries Ltd(SCCL). Due to coal shortage from linkage



sources, the generating stations has to augment coal from other domestic sources and also imported coal. Coal from Eastern Coal Fields (ECL) and SECL is expensive as compared to coal from Mahanadi coal fields (MCL) under Coal India Ltd due to the variations in grade of coal etc. The price of coal from Singareni Collieries (SCCL) is based on the price notifications of Singareni Collieries where as coal price of Coal India Ltd (CIL) is based on the notification dated 8/1/2018 and the fuel price is based on the coal price and the transportation cost. There are frequent revisions in SCCL price notification compared to CIL. Honorable Commission may please note that the following price revisions were notified by SCCL subsequent to MYT petition contributed to increase in energy charges.

1. SCCL price notification no.107/2018-19 dt 11.10.18 wef 01.10.18
  2. SCCL price notification no.109/2018-19 dt 28.11.18 wef 01.12.18
  3. SCCL price notification no.111/2018-19 dt 31.12.18 wef 01.01.19
  4. SCCL price notification no.113/2018-19 dt 9/3/2019 wef 09.03.19
  5. SCCL price notification no.114/2019-20 dt 04/05/19 wef 04.05.19
  6. SCCL price notification no.117/2019-20 dt 31/08/19 wef 01.09.19
  7. SCCL price notification no.118/2019-20 dt 30/11/19 wef 01.12.19
  8. SCCL price notification no.119/2019-20 dtd 10/2/20 wef 11/2/2020
  9. SCCL price notification no,121/2019-20 dtd 1.03.2020 wef 01/.03.2020
  10. Corrigendum 4 to price notification no,121/2019-20 dtd 30.05.2020 wef 01/6/2020
  11. Corrigendum 4 to price notification no,121/2019-20 dtd 06.06.2020 wef 01/6/2020
- iv. NLC has revised the Lignite transfer price guidelines 2019-24 dated 17.09.2019 wef October 2019. As per the revised lignite price guidelines, the basic price of pooled lignite is revised from Rs. 1950/ton to Rs. 2050/ton with effect from 1/10/2019. Further, security charges, ground water charges and recovery of lignite price due to surrender of power of the linked power plants are billed in addition to basic price from 1.10.2019 onwards. The energy charges of NLC stations shows an increase in the third quarter of FY-19 onwards owing to the revised Lignite transfer price guidelines 2019-24.
- v. The monthly energy charges varies depending upon the receipt of coal from different sources. The energy charge rate calculated as per Tariff regulations is based on the following formula Energy charge rate=  $\{(GHR-SFC*CVSF)*LPPF/CVPF+(SFC*LPSFi)+(LC*LPL)*100/(100-Aux)\}$
- Where
- GHR is Gross station heat rate in Kcal per kWh
- AUX =Normative auxiliary energy consumption in percentage.
- CVPF = Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations less 85 Kcal/Kg on account of variation during storage at generating station;
- vi. In case of blending of fuel from different sources, the weighted average Gross calorific value of primary fuel shall be arrived in proportion to blending ratio:

CVSF = Calorific value of secondary fuel, in kCal per ml;  
 ECR = Energy charge rate, in Rupees per kWh sent out;  
 SHR = Gross station heat rate, in kCal per kWh;  
 LPL = Weighted average landed cost of limestone in Rupees per kg;  
 LPPF = Weighted average landed fuel cost of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month.  
 LPSFi = Weighted Average Landed Fuel Cost of Secondary Fuel in Rs/ml during the month:

- vii. Energy charges depends on gross calorific value of primary and secondary fuel CVSF ,and CVPF as well as landed price of primary and secondary fuel (LPPF and LPSFi). The parameters CVPF in the equation of energy charges varies depending upon the grade of fuel which in turn depends on the receipt of coal from different sources and also blending of fuel. Different grades of coal has different prices. Thus the landed price of fuel again depends on grade of fuel, source of fuel, transportation cost (depends on distance from coal source and mode of transport), price notified for each mine which are different from mine to mine etc. The monthly variation of these parameters leads to variation in monthly energy charges. The details of calorific value and landed price of coal is available in Form 15 attached as **Annexure VIII**.

XXI. Approved and actual variable cost of approved sources are shown in **Table 1** below.

Table-1					
Sl No	Source	Approved	Actual (Rs/ kWh)		
		(Rs/ kWh)	Apr-20	May-20	Jun-20
<b>Central Generating Stations</b>					
1	NTPC-RSTPS Stage I & II	2.540	2.577	2.577	2.470
2	NTPC-RSTPS Stage III	2.490	0.000	0.000	2.429
3	Talcher	1.770	2.000	1.894	1.910
4	Simhadri TPS Stage II	2.950	2.984	3.000	2.945
5	NLC-Stage-1	2.690	2.764	2.771	2.771
6	NLC-Stage-II	2.690	2.770	2.771	2.771
7	NLC I Expansion	2.490	2.540	2.537	2.537
8	NLC II Expansion	2.490	2.566	2.561	2.561
9	Vallur STPS	3.200	3.519	3.531	3.532
10	NTPL	3.280	2.775	2.699	2.703
11	NTPCKudgi	3.980	3.590	0.000	3.129
<b>Independent Power Producers</b>					
12	RTPS	2.340	3.318	3.315	3.201
13	Mejia	2.510	2.878	2.768	2.723
14	Maithon Power Ltd- Contract I	2.430	2.674	2.668	2.757
15	Maithon Power Ltd- Contract II	2.430	2.674	2.668	2.757
16	Jindal Power Ltd-Bid I	1.310	1.310	1.310	1.310
17	Jhabua Power Ltd-Bid I	1.950	1.960	1.960	1.960
18	Jindal Power Ltd-Bid II	1.190	1.310	1.310	1.310

19	Jhabua Power Ltd-Bid II	1.730	1.880	1.880	1.880
20	JITPL	1.030	1.140	1.140	1.140
21	BALCO	1.220	1.160	1.160	1.160

XXII. The monthly energy charge variations during the first quarter is due to following reasons.

- NTPC RSTPS Stage I& II, III: Coal linkage is from Singareni Collieries (SCCL). Coal price is based on the notified price of Singareni Collieries from time to time. The energy charges for the month of April & may was based on the price of coal vide notification of Singareni Collieries {121/2019-20 dt 01/03/2020 wef 01/03/20}. The energy charges for the month of June was based on the pice of coal as per price notification no.121/2019-20 dt 1/03/2020 - corrigendum 4 wef 1/6/2020 and corrigendum 5 wef 7/6/2020. Vide corrigendum 4, the surface transportation charges for distance beyond 20 kms has been decreased from Rs. 130/- + Rs. 2.09/km per tonne to Rs. 130/- + Rs. 1.92/km per tonne. Vide Corrigendum 5 wef 7/6/2020 - Fuel surcharge @ Rs. 212/MT has been reduced to Rs. 201/MT on all grades from 0.00 hrs 7/6/2020. Hence the reduction in energy charges for the month of June.(Copies enclosed as **Annexure IX**)
- NTPC Talcher STPS-Stage II:- Coal linkage is from Kaniha area of Talcher coal fields(MCL). Domestic coal is seen received from IB valley (MCL), SCCL & ECL. ECL coal is high graded coal and is more expensive. SCCL Coal is at premium rate. Imported coal was also used during the quarter. Depending on the blending ratio of coal receipt from different sources having different cost, the landed cost of fuel varies. The monthly variations in landed price and calorific value of fuel leads to monthly variation in energy charges.
- NTPC Simhadri :- Coal linkage is mainly from MCL. Domestic coal is being arranged from SCCL, ECL & CCL. ECL coal is high graded coal and is more expensive. SCCL coal is at premium rate and hence is more expensive. Imported coal was also used during the quarter. Depending on the blending ratio of coal receipt from different sources having different cost, the landed cost of fuel varies. The monthly variations in landed price and calorific value of fuel leads to monthly variation in energy charges.
- NLC stations:- As specified in para XIX (iv) NLC has revised the Lignite transfer price guidelines 2019-24 dated 17.09.2019 wef October 2019 and the energy charges increased by 29 paise to 45 paise per unit (12 to 17%) during October 2019 for various NLC stations as compared to September 2019. The slight variations in monthly fuel cost is due to the change in calorific value of fuel.

- NTECL Vallur:- The increase in monthly energy charge of Vallur is due to the variation in usage of coal at higher rate (SCCL coal at premium rate).
- NTPL:- For NTPL ,imported coal is used during the quarter. Depending upon the quantity of imported coal monthly energy charges varies.
- NTPC Kudgi:- For KUDGI stations imported coal is used due to shortage of coal during the quarter and depending on the varied blending ratio, the monthly energy charges varies.
- DVC Mejia:- The monthly variation energy charges for DVC Mejia during this quarter is due to the variations in usage of expensive coking coal.
- Maithon Power Ltd:- In the case of Maithon Power Ltd the increase in energy charge rate during the month of June 2020 attributed to the low quality of coal due to monsoon resulting in low gross calorific value.

XXIII. The summary of additional liability for first quarter of 2020-21 as per fuel surcharge regulations is given in **table 2** below.

Table 2 Additional liability for the first quarter of FY 20-21							
Source	Energy procurement			Per unit cost		Add liability	
	Apprvd quantum	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	1610.42	1607.19	2.47	2.27	12.51	12.53
IPPs	2318.35	2078.08	2048.56	1.79	1.84	26.62	26.42
Total	4720.26	3688.49	3655.74	2.14	2.03	39.12	38.94

XXIV. Honorable Commission may please note that KSEBL has incurred an additional liability of Rs 39.12 crore for purchasing 3688.49 MU of energy from various approved thermal sources during the first quarter of FY 2020-21. Out of which Rs 38.94 Cr. is the admissible additional liability as per fuel surcharge regulations. Details in this regard as per the provisions of fuel surcharge formula specified in Tariff Regulations, 2018, are furnished in **Annexure IV**.

XXV. Inorder to meet the energy deficit anticipated during peak summer April and May 2020, KSEBL contracted M/s Adani enterprises and M/s DB Power Ltd to purchase RTC and peak power from 01-04-2020 to 30.04.2020 from M/s Adani Enterprises Ltd on firm and short term basis through DEEP portal as per the prices discovered as shown in table below. Honorable Commission vide order dated 13.03.2020 approved the above contracts. KSEBL purchased 167.02 MU at Kerala periphery through the above contracts for the month of April and May 2020.

Table 3 Details of power contracted through DEEP portal				
Generator	Adani Enterprises Ltd			
Period	Duration	Quantum(MW) on firm basis	Rate at delivery point ie; at Kerala periphery(Rs/unit)	Source of power
01.04 to 30.04.2020	00.00 to 24.00	100	3.72	Raipur Energen Ltd
01.05. to 31.05.2020	00.00 to 24.00	150	3.76	
01.05. to 31.05.2020	19.00 to 23.00	50	4.25	
Generator	DB Power Ltd(DBPL)			
Period	Duration	Quantum(MW) on firm basis	Rate at delivery point ie; at Kerala periphery(Rs /unit)	Source of power
01.04. to 30.04.2020	19.00 to 23.00	50	4.24	DB Power Ltd
01.05 to 31.05.2020	19.00 to 23.00	50	4.24	

- XXVI. Further KSEBL purchased 1.08 MU through exchanges and 51.75 MU by means of power transfer through deviation settlement mechanism during the first quarter of FY-2020-21.
- XXVII. In addition to the above KSEBL availed energy through various banking arrangements as detailed below. In order to overcome the anticipated power and energy shortage in summer months, KSEBL entered banking arrangement with M/s PTC India Ltd from TPDDL, from February 2020 to April 2020 which was approved by Honorable Commission vide order dated 14.01.2020. KSEBL availed 56.43 MU during the month of April through these banking arrangements. Further KSEBL returned 26.63 MU during June as part of this banking agreement. Also, KSEBL returned 11.81 MU to BYPL during June 2020 which was supplied during February to March 2020 through banking arrangement approved by Honorable Commission dated 14.01.2020. KSEBL sold 11.18 MU during first quarter through exchanges. The details of power procurement through short term transactions is enclosed as **Annexure VI**.
- XXVIII. Hon'ble Commission had not given approval for scheduling power from RGCCPP for the year 2020-21 vide tariff order dated 08.07.2019. But as per power purchase agreement KSEBL is bound to pay fixed charges. It is humbly submitted that power purchase cost being an uncontrollable cost, Hon'ble Commission may kindly allow the fixed charges paid towards RGCCPP at the time of truing up.
- XXIX. Consequent to the national lock down due to Covid pandemic the actual demand during the quarter was less by 921 MU. The actual power from CGS at exbus decreased by 901.84 MU, renewable energy purchase less by 356.90 MU and exbus energy for power purchased from private IPPs outside the State through long term contracts decreased by 240.33 MU against the approved quantum. Thus there is a reduction in availability of 1465.19 MU at Kerala periphery. Further as part of banking arrangements KSEBL returned 38.44 MU to TPDDL through PTC and BYPL and there was an external sale of 11.18 MU during the quarter. The reduction in

availability leads to an energy requirement of 276.27 MU for meeting the internal demand of the State and this is met through power purchase through short term contracts/exchanges/power transfer through deviation settlement mechanism as well as power availed through banking arrangements. It may please be noted that as per the MYT order there is a surplus of 317.52 MU for which Honorable Commission has considered a revenue amounting to Rs 158.76 Cr @ Rs 5 per unit through external sale. The reduction in energy availability leads to a reduction in energy sale outside the State by 306.34 MU which inturn resulted in a reduction in revenue of Rs 153.17 Cr from energy sale outside the State and the reduction in demand of 921 MU results in a reduction in revenue by Rs 497.86 Cr considering the revenue realisation approved by the Honourable Commission for the FY 2019-20 (Rs 6.144 per unit).

XXX. Thus Honorable Commission may please note that the reduction in availability and reduction in demand leads to a reduction in revenue approved by Honorable Commission amounting to Rs 651.03 Cr. In this context KSEBL would like to bring into the kind notice of Honorable Commission that even though the reduction in availability resulted in reduction in power purchase and hence a reduction in power purchase cost amounting to Rs 366.88 Cr, KSEBL is suffering a reduction in revenue of Rs 651.03 Cr on account of the same during the first quarter. The net effect is an increase in approved revenue gap by Rs 284.15 Cr. The details are given as **Annexure VII(a) and Annexure VII(b)**. As the impact of short term purchase and impact of reduction in demand and availability cannot be addressed under the purview of fuel surcharge regulations, KSEBL will address the matter at the time of truing up. Moreover, as a result of the relief measures extended by KSEBL to various categories of consumers as per direction of the State Government in order to alleviate the difficulties faced by consumers due to the lockdown imposed by State Government to curb Covid pandemic , KSEBL is facing financial difficulties owing to the delay in recovery of revenue.

XXXI. Hence considering the above , KSEBL humbly requests before the Honorable Commission to approve the additional liability of Rs 38.94 crore due to fuel price variation in the energy amounting to 3688.49MU purchased from various approved thermal sources during the first quarter of FY 2020-21 in line with Regulation 86 of KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2018.

XXXII. As per the regulation 86(8) of the Tariff regulations , the adjustment of fuel surcharge as approved by the Commission shall be effected from the third month of subsequent quarter onwards as directed by the Honorable Commission ie; the fuel surcharge for the first quarter of FY-20 is to be adjusted from September 2020 onwards as per regulation. It may please be noted that owing to the Covid -19 pandemic and

subsequent lock down the consumption in the State during the period April-June has come down by 20%. Hence KSEBL could not recover the fuel surcharge approved for the first quarter within the period of recovery approved. Honourable Commission, subsequently as per the request of KSEBL vide letter dated 14.05.2020, has extended the recovery period as consumption period upto 31.05.2020. Further, recovery of fuel surcharge of second quarter , third quarter and fourth quarter is pending. Hence KSEBL feels that it may not be able to recover the fuel surcharge for the first quarter of FY 20-21 from September 2020 onwards. Hence, for calculation purpose KSEBL is considering the energy sales from March 2021 onwards for three months for arriving the fuel surcharge recovery rate and the same is arrived as 6 paise per unit. The details of calculation are furnished in **Annexure V**. KSEBL humbly requests before the Honorable Commission to consider the energy sales for the corresponding period while approving fuel surcharge recovery rate.

XXXIII. It is prayed that Honourable Commission may approve the additional liability of Rs 38.94 crore for the first quarter of FY2020-21 as per Regulation 86 of KSERC Tariff Regulations, 2018 and allow KSEBL to recover this additional cost as fuel surcharge from all categories of consumers including bulk consumers/licenseses from 1<sup>st</sup> March 2021 onwards @ 6 paise per unit as per the regulations.

#### **PRAYER**

KSEBL humbly prays before this Hon'ble Commission that,

- (a) The additional financial liability incurred by KSEBL, amounting to Rs 38.94 Cr., due to the variation in power purchase cost resulting from the variation in cost of fuel for the period from April to June 2020 for the procurement/ generation of energy from various thermal sources as per Regulation 86 of KSERC Tariff Regulations, 2018 as detailed in **Annexure IV & V** 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, @ 6 paise per unit from 1<sup>st</sup> March 2021 onwards.

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

**Acc: 1. Formats I,III & IV**  
**2. Annexure I-IX**  
**3. Copies of invoices**

## Formats



**Format-1**

<b>Details of Energy Billed for retail sale April-June 2020(Provisional)</b>		
<b>1</b>	<b>Energy billed with in the State*</b>	<b>Actual</b>
(a)	Total energy billed to LT, HT and EHT consumers (excl. energy billed to bulk consumers/ other Licensees) (MU)	5537.48
(b)	Energy billed to bulk consumers/ other licensees (MU)	119.89
(c)	Total energy billed (MU)	5657.37
<b>2</b>	<b>Energy Input (Excluding External losses) (MU)</b>	<b>6023.60</b>
3	T & D Losses (Internal) (%)	

\*The energy billed for the month of April, May and June is shown in table and are not the energy sales corresponding to energy input during the quarter. Also the energy billed for the month of May and June 2020 includes the units corresponding to the previous billing cycle as the adjustments during lock down period for LT consumers. The energy billed for the month of April is based on the average consumption. As the corresponding energy sales against energy input will be available from billing of subsequent months, the monthly actual loss details is not furnished.

<b>Details of energy billed for retail sale for first quarter 2020-21</b>						
<b>Month</b>	<b>Energy billed (MU)*</b>		<b>T&amp;D loss(%)</b>		<b>Energy Input(MU)</b>	
	<b>Actual</b>	<b>Approved</b>	<b>Actual</b>	<b>Approved</b>	<b>Actual</b>	<b>Approved</b>
Apr-2020	1857.52			12.02% at the end of FY-20	2025.92	
May-20	1828.98				2138.95	
June-20	1970.88				1858.73	
Total	5657.37				6023.60	

\*The energy billed for the month of April, May and June is shown in table and not the energy sales corresponding to energy input during the quarter. As the corresponding energy sales against energy input will be available from billing of subsequent months, the monthly actual loss details is not furnished

Format-3						
Month Wise Details of Purchase of Energy (claiming for fuel surcharge)						
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)
<b>April-2020</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	115.65	164.66	2.58	2.54	29.80	41.82
RSTPS III	0.00	41.39	0.00	2.49	0.00	10.31
Talcher Stage-II	272.00	289.76	2.00	1.77	54.40	51.29
Simhadri TPS Stage II	16.62	51.46	2.98	2.95	4.96	15.18
NLC Stage-I	20.81	27.22	2.76	2.69	5.75	7.32
NLC Stage-II	21.56	50.72	2.77	2.69	5.97	13.64
NLC 1 Expansion	39.25	38.35	2.54	2.49	9.97	9.55
NLC II Expansion	22.83	24.77	2.57	2.49	5.86	6.17
Vallur STPS	1.38	20.58	3.52	3.20	0.49	6.59
NTPL	19.48	44.80	2.77	3.28	5.41	14.69
Kudgi	2.85	66.24	3.59	3.98	1.02	26.36
Sub total CGS	532.42	819.95	2.32	2.47	123.63	202.92
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	11.57	31.30	3.32	2.34	3.84	7.32
DVC Mejia TPS	51.73	63.44	2.88	2.51	14.89	15.92
Maithon Power Ltd- Contract 1	75.30	99.31	2.67	2.43	20.14	24.13
Maithon Power Ltd- Contract II	75.30	99.31	2.67	2.43	20.14	24.13
Jindal Power Ltd-Bid I	123.08	123.12	1.31	1.31	16.12	16.13
Jhabhua Power Ltd -Bid I	69.39	70.79	1.96	1.95	13.60	13.80
Jindal Power Ltd-Bid II	92.33	92.34	1.31	1.19	12.10	10.99
Jhabhua Power Ltd -Bid II	60.34	61.56	1.88	1.73	11.34	10.65
Jindal India thermal Power Ltd	59.28	61.56	1.14	1.03	6.76	6.34
BALCO	59.17	61.56	1.16	1.22	6.86	7.51
TOTAL LTA	677.49	764.29	1.86	1.79	125.78	136.93
Total	1209.91	1584.24	2.06	2.15	249.41	339.86
<b>May-2020</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	110.43	153.95	2.58	2.54	28.46	39.10
RSTPS III	0.00	42.77	0.00	2.49	0.00	10.65
Talcher Stage-II	287.25	299.42	1.89	1.77	54.41	53.00
Simhadri TPS Stage II	14.31	53.18	3.00	2.95	4.29	15.69
NLC Stage-I	16.99	35.86	2.77	2.69	4.71	9.65
NLC Stage-II	13.68	52.41	2.77	2.69	3.79	14.10
NLC 1 Expansion	39.30	39.63	2.54	2.49	9.97	9.87
NLC II Expansion	19.77	25.60	2.56	2.49	5.06	6.37

Vallur STPS	1.38	31.90	3.53	3.20	0.49	10.21
NTPL	11.32	46.30	2.70	3.28	3.05	15.19
Kudgi	0.00	68.45	0.00	3.98	0.00	27.24
<b>Total</b>	<b>514.43</b>	<b>849.47</b>	<b>2.22</b>	<b>2.48</b>	<b>114.23</b>	<b>211.06</b>
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	9.62	32.35	3.32	2.34	3.19	7.57
DVC Mejia TPS	48.65	65.56	2.77	2.51	13.47	16.46
Maithon Power Ltd- Contract 1	75.79	102.62	2.67	2.43	20.22	24.94
Maithon Power Ltd- Contract II	75.79	102.62	2.67	2.43	20.22	24.94
Jindal Power Ltd-Bid I	129.87	127.22	1.31	1.31	17.01	16.67
Jhabhua Power Ltd -Bid I	78.09	73.15	1.96	1.95	15.31	14.26
Jindal Power Ltd-Bid II	97.40	95.42	1.31	1.19	12.76	11.35
Jhabhua Power Ltd -Bid II	67.91	63.61	1.88	1.73	12.77	11.00
Jindal India thermal Power Ltd	70.25	63.61	1.14	1.03	8.01	6.55
BALCO	65.17	63.61	1.16	1.22	7.56	7.76
TOTAL LTA	718.53	789.77	1.82	1.79	130.51	141.50
<b>Total</b>	<b>1232.97</b>	<b>1639.24</b>	<b>1.98</b>	<b>2.15</b>	<b>244.74</b>	<b>352.56</b>
<b>June-2020</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	122.95	125.46	2.47	2.54	30.37	31.87
RSTPS III	27.28	41.39	2.43	2.49	6.63	10.31
Talcher Stage-II	267.54	289.76	1.91	1.77	51.10	51.29
Simhadri TPS Stage II	16.27	28.28	2.95	2.95	4.79	8.34
NLC Stage-I	21.09	27.22	2.77	2.69	5.84	7.32
NLC Stage-II	20.25	38.04	2.77	2.69	5.61	10.23
NLC 1 Expansion	39.09	38.35	2.54	2.49	9.92	9.55
NLC II Expansion	25.74	24.77	2.56	2.49	6.59	6.17
Vallur STPS	0.60	30.87	3.53	3.20	0.21	9.88
NTPL	22.73	22.11	2.70	3.28	6.14	7.25
Kudgi	0.03	66.24	3.13	3.98	0.01	26.36
<b>Total</b>	<b>563.56</b>	<b>732.49</b>	<b>2.26</b>	<b>2.44</b>	<b>127.21</b>	<b>178.57</b>
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	8.58	31.30	3.20	2.34	2.75	7.32
DVC Mejia TPS	48.65	63.44	2.72	2.51	13.25	15.92
Maithon Power Ltd- Contract 1	74.57	99.31	2.76	2.43	20.56	24.13
Maithon Power Ltd- Contract II	74.39	99.31	2.76	2.43	20.51	24.13
Jindal Power Ltd-Bid I	123.79	123.12	1.31	1.31	16.22	16.13
Jhabhua Power Ltd -Bid I	74.71	70.79	1.96	1.95	14.64	13.80
Jindal Power Ltd-Bid II	92.85	92.34	1.31	1.19	12.16	10.99
Jhabhua Power Ltd -Bid II	63.92	61.56	1.88	1.73	12.02	10.65
Jindal India thermal Power Ltd	59.41	61.56	1.14	1.03	6.77	6.34
BALCO	61.19	61.56	1.16	1.22	7.10	7.51
TOTAL LTA	682.05	764.29	1.85	1.79	125.97	136.93
<b>Total</b>	<b>1245.61</b>	<b>1496.78</b>	<b>2.03</b>	<b>2.11</b>	<b>253.19</b>	<b>315.50</b>

**Format-4**

**Sourcewise Energy Input from April-2020 to Jun 2020 in MU**

SI No	Particulars	Apr-20		May-20		Jun-20		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	522.60	641.22	661.93	594.47	525.29	474.40	1709.81	1710.10	-0.29
	(b) Less Aux consumption	2.61	3.21	3.31	2.97	2.63	2.37	8.55	8.55	0.00
	(c) Net Hydro Gen	519.98	638.02	658.62	591.50	522.66	472.03	1701.26	1701.55	-0.29
2	KSEB thermal									
	(a) BDPP	0.00		0.00		0.00		0.00	0.00	
	(b) KDPP	0.00		0.00		0.00		0.00	0.00	
	(c) Subtotal	0.00		0.00		0.00		0.00	0.00	
	(d) Less Aux consumption	0.00		0.00		0.00		0.00	0.00	
	(e) Net BDPP+KDPP	0.00		0.00		0.00		0.00	0.00	
3	Wind Generation(net)	0.04	0.09	0.12	0.12	0.13	0.13	0.29	0.33	-0.05
4	Solar Generation(net)	1.17	3.97	0.88	3.97	0.72	3.97	2.77	11.90	-9.13
	Total own generation(net)	521.19	642.07	659.62	595.59	523.51	476.13	1704.32	1713.78	-9.46
3	CGS (Import)	711.58	1027.01	674.36	1027.47	715.73	949.03	2101.67	3003.51	-901.84
4	IPPs							0.00		0.00
	RGCCPP	0.00		0.00				0.00		
	BSES	0.00		0.00				0.00		
	KPCL	0.00		0.00				0.00		
	Wind	3.61		9.56		16.71		29.88		29.88
	Solar	7.69		6.81		5.00		19.51		19.51
	Ullunkal(EDCL)	1.31		2.18		1.11		4.60		4.60
	Iruttukanam Stage-I (VIYYAT)	0.28		0.36		1.22		1.86		1.86
	Iruttukanam Stage-II	0.02		0.10		0.68		0.81		0.81
	Karikkayam HEP(AHPL)	0.00		3.80		2.51		6.31		6.31
	Meenvallom (PSHCL)	0.07		0.07		0.27		0.40		0.40
	Pathamkayam	0.00		0.00		0.00		0.00		0.00
	Subtotal	12.98	23.07	22.88	23.84	27.49	23.07	63.35	69.98	-6.63
6	Purchase through Longterm contract							0.00		0.00
i	Purchase From DVC Reghunathpur	11.57	31.30	9.62	32.35	8.58	31.30	29.77	94.95	-65.18
ii	Purchase from DVC Meja	51.73	63.44	48.65	65.56	48.65	63.44	149.03	192.44	-43.41

iii	Purchase from Maithon power-1, ER	75.30	99.31	75.79	102.62	74.57	99.31	225.66	301.24	-75.58
iv	Purchase from Maithon power-2, ER	75.30	99.31	75.79	102.62	74.39	99.31	225.49	301.24	-75.75
v	Purchase from (JPL STAGE2) -DBFOO	123.08	123.12	129.87	127.22	123.79	123.12	376.73	373.46	3.27
vi	Purchase from jhabhua-SGPLNLR,TPCL DBFOO	69.39	70.79	78.09	73.15	74.71	70.79	222.20	214.73	7.47
vii	Purchase from jhabhua-(PSA-2 )SGPLNLR,TPCL DBFOO	60.34	61.56	67.91	63.61	63.92	61.56	192.17	186.73	5.44
viii	Purchase from (JPL STAGE2) -(PSA-2)DBFOO	92.33	92.34	97.40	95.42	92.85	92.34	282.58	280.10	2.48
ix	Purchase from JITPL	59.28	61.56	70.25	63.61	59.41	61.56	188.93	186.73	2.20
x	Purchase from BALCO	59.17	61.56	65.17	63.61	61.19	61.56	185.52	186.73	-1.21
	Sub Total	677.49	764.29	718.53	789.77	682.05	764.29	2078.08	2318.35	-240.27
	STOA	67.53		103.30				170.83		170.83
	Purchase through exchanges at SR periphery	0.94	0.00	0.15	0.00	0.02	0.00	1.11		1.11
	Deviation settlement mechanism at Kerala periphery	25.44		17.73		8.57		51.75		51.75
	SWAP	57.75		0.00		0.00		57.75		57.75
	Additional RE energy approved		56.80		58.69		56.80		172.29	-172.29
	Power Purchase	1553.71	1871.17	1536.96	1841.08	1433.86	1736.39	4524.53	5448.64	-924.11
	PGCIL losses	48.09	67.44	55.60	68.45	51.93	64.57	155.63	200.45	-44.83
	Net Power Purchase	1505.61	1803.73	1481.36	1772.63	1381.93	1671.83	4368.90	5248.19	-879.28
	Total Gen & PP	2026.81	2445.80	2140.98	2368.22	1905.43	2147.95	6073.22	6961.97	-888.75

## Annexures

Annexure-I				
Power contracted through long Term agreements				
Allocation from Central Generating Stations				
No.	Station	IC (MW)	Allocation	Allocated Capacity to KSEBL (MW)
		MW	%	2019-20 MW
1	RSPTS Stage I & II	2100	11.67%	245.07
2	RSTPS Stage III	500	12.20%	61
3	TALCHER - Stage II	2000	21.35%	427
4	Simhadri Exp	1000	8.56%	85.55
5	NLC-II- Stage-1	630	10.00%	63
6	NLC-II- Stage-2	840	10.72%	90.02
7	NLC- Exp- Stage-1	420	16.25%	68.24
8	NLC - II Exp	500	16.25%	81.23
9	MAPS	440	5.23%	23.01
10	KAIGA Stg I& II	440	8.64%	38.01
11	KAIGA Stg II	440	7.95%	34.98
12	Kudamkulam Unit I	1000	14.01%	140.1
13	Kudamkulam unit II	1000	13.30%	133
14	Vallur JV with	1500	3.33%	49.95
15	NTPL(Tuticorin JV)	1000	7.25%	72.5
16	Kudgi Unit I,II & III	2400	4.66%	111.72
17	NLC new thermal	500	3.24%	16.2
	<b>Total</b>			<b>1740.58</b>
Power contracted with IPPS through long Term contracts				
	Generator	Contracted capacity		
18	Maithon Power Ltd-Contract I	150		
19	Maithon Power Ltd-Contract I	150		
20	DVC Mejia TPS	100		
21	DVC Reghunathpur TPS	50		
22	Jindal Power Ltd -Bid I	200		
23	Jhabua Power Ltd-Bid I	115		
24	Jindal Power Ltd -Bid II	150		
25	Jhabua Power Ltd-Bid II	100		
26	Jindal India Thermal Power Ltd-Bid II	100		
27	BALCO	100		

Monthly Energy Schedule Approved for the Year 2020-21

Source	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Total
33715 Stage 1	154.90	153.95	125.46	153.53	125.54	154.56	170.15	170.15	120.04	170.15	123.61	1,701.15
HTPS Same 1	41.39	42.77	41.39	42.77	41.39	42.77	41.39	42.77	42.77	42.77	31.23	453.27
AICHER - Stage II	283.75	293.42	289.75	234.57	299.42	237.32	271.32	237.32	239.42	273.63	238.08	2,904.21
Simhadri Exp	51.76	53.18	28.78	53.18	29.22	51.46	53.18	51.46	53.18	53.18	48.64	584.87
AUC-II Stage-1	27.22	35.86	27.22	35.85	35.86	34.70	23.12	34.70	35.85	35.86	30.23	337.35
AUC-II Stage-2	52.72	52.71	38.04	52.41	38.31	50.72	52.41	38.04	39.31	52.41	49.25	537.42
M. C. Exp-Stage-1	38.35	38.63	38.35	38.35	38.35	38.35	38.35	38.35	38.35	38.35	37.87	433.02
MUC - I Exp	24.77	25.00	24.77	25.00	25.71	25.00	25.00	24.77	25.80	25.80	23.95	282.78
WAPS	11.28	11.45	11.28	11.45	11.45	11.45	11.45	11.45	11.45	11.45	10.62	123.59
Coastal Stage	31.92	24.32	43.30	44.75	44.75	31.03	44.75	43.30	44.75	44.75	41.51	490.76
Kulam - I & II	137.54	142.22	137.54	142.22	142.22	137.54	142.22	137.54	142.22	142.22	137.54	1,536.37
Vallur (V & II)	20.58	34.90	30.87	31.90	31.90	21.07	31.90	20.58	31.90	31.90	30.62	347.05
HT (Uttaram)	47.80	46.30	22.11	46.30	46.30	47.80	46.30	46.30	46.30	46.30	21.70	501.53
Kudgi (I & II)	65.23	65.45	66.24	67.04	67.04	65.20	67.04	65.20	67.04	65.45	66.79	742.20
Shradhi	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	24.52	21.11	271.21
<b>Total</b>	<b>1,027.09</b>	<b>1,027.09</b>	<b>949.03</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>910.36</b>	<b>11,676.79</b>

Monthly Energy Schedule Approved for the Year 2020-21

Source	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Total
Mathon Power	94.31	102.62	94.31	102.62	102.62	94.31	94.31	102.62	102.62	102.62	94.31	1,057.93
Vaithan Power	89.31	102.62	89.31	102.62	102.62	89.31	102.62	102.62	102.62	102.62	89.31	1,057.93
DVC M/a TPS	63.44	65.56	63.44	65.56	65.56	63.44	65.56	65.56	65.56	65.56	63.44	765.50
DVC R/Pur TPS	31.80	32.35	31.80	32.35	32.35	31.80	32.35	32.35	32.35	32.35	27.75	348.10
Uda Power	123.12	127.22	123.12	127.22	127.22	123.12	127.22	127.22	127.22	127.22	123.12	1,497.36
Jirdal Power	52.34	55.42	52.34	55.42	55.42	52.34	55.42	55.42	55.42	55.42	52.34	612.47
Jirdal Thermal	61.56	63.61	61.56	63.61	63.61	61.56	63.61	63.61	63.61	63.61	61.56	748.98
Fabul Power	70.79	73.15	70.79	73.15	73.15	70.79	73.15	73.15	73.15	73.15	68.07	861.33
Udaha Power	52.50	53.52	52.50	53.52	53.52	52.50	53.52	53.52	53.52	53.52	52.50	613.33
SALCO	51.58	53.61	51.58	53.61	53.61	51.58	53.61	53.61	53.61	53.61	51.58	613.33
<b>Total</b>	<b>1,027.09</b>	<b>1,027.09</b>	<b>949.03</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>997.05</b>	<b>910.36</b>	<b>11,676.79</b>



**Annexure II (b) Details of energy availability for the first quarter of FY-21**

Sl. No.	Name of the Station	Availability						Reason for low availability
		April (High Demand in SR)		May Low Demand in SR)		June (Low Demand in SR)		
		peak	off peak	peak	off peak	peak	off peak	
1	NTPC RSTPS Stg I & II	99.160%	98.970%	95.274%	95.413%	100.093%	100.126%	Above normative availability.
2	NTPC RSTPS Stage III	0.000%	0.000%	0.000%	0.000%	74.916%	74.095%	Plant was under shut down from 11.03.2020 to 08.06.2020 due to steam leakage in turbine. Hence, the availability is low.
3	NTPC Talcher II	97.564%	97.944%	102.925%	102.909%	96.898%	97.154%	Above normative availability.
4	NTPC Simhadri Stg II	100.920%	100.681%	97.712%	97.396%	101.008%	101.008%	Above normative availability.
5	NLC TPS I Expansion	99.384%	100.687%	95.844%	95.354%	95.772%	95.047%	Above normative availability.
6	NLC TPS II Expansion	48.527%	48.627%	40.711%	40.169%	54.787%	54.431%	The availability of this station is normally low from the year the station was commissioned ie, 2015-16.
7	NNTPP	74.90%	76.33%	88.48%	88.70%	67.52%	69.20%	Unit 1 tripped on boiler protection from 14.04.2020 to 18.04.2020, due to super heater side problem from 09.06.2020 to 11.06.2020 and due to ash handling problem from 22.06.2020 to 25.06.2020
8	NLC - II - Stage I	101.98%	100.97%	99.10%	98.44%	92.25%	94.16%	Above normative availability
9	NLC - II - Stage II	83.27%	82.55%	58.11%	58.59%	66.76%	68.94%	Unit 4 under forced outage from 12.04.2020 to 10.05.2020 due to high turbine vibration, Unit 5 from 19.05.2020 to 20.05.2020 due to FD fan problem, Unit 6 due to boiler explosion from 07.05.2020, Unit 7 from 07.05.2020 to 21.05.2020 due to suspected Unit 6 boiler explosion and from 22.05.2020 to 25.05.2020 due to boiler furnace problem

10	NTECL Vallur	99.87%	99.16%	99.21%	99.46%	100.29%	100.33%	Above normative availability
11	NTPL	100.75%	99.47%	96.86%	97.41%	101.06%	101.06%	Above normative availability
12	Kudgi	100.40%	100.40%	100.00%	100.00%	100.13%	100.12%	Above normative availability
13	DVC Mejia (100MW)	102.005%	102.005%	102.005%	102.005%	102.005%	101.793%	Above normative availability.
14	DVC RTPS (50 MW)	101.998%	101.998%	101.998%	101.998%	101.998%	101.998%	Above normative availability.
15	Maithon Power Ltd-PPA I	97.10%	96.54%	96.47%	96.54%	94.94%	93.39%	Above normative availability.
16	Maithon Power Ltd-PPA II	97.10%	96.54%	96.47%	96.54%	94.94%	93.39%	Above normative availability.
17	Jindal Power Ltd-PSA 1	89.97%		91.87%		92.92%		Unscheduled maintenance reported for the month of April 2020.
18	Jindal Power Ltd--PSA 2	89.99%		91.87%		92.93%		Unscheduled maintenance reported for the month of April 2020.
19	Jhabua Power Ltd-PSA 1	88.22%		96.08%		99.04%		Unscheduled maintenance reported from 14.04.2020 to 18.04.2020.
20	Jhabua Power Ltd-PSA 2	88.22%		96.08%		99.04%		Unscheduled maintenance reported from 14.04.2020 to 18.04.2020.
21	Jindal India Thermal Pvt Ltd	92.02%		99.39%		97.16%		Above normative availability.
22	BALCO	89.19%		92.20%		90.41%		Above normative availability.

## ANNEXURE IV

### DETAILS OF ADDITIONAL LIABILITY

#### 1. Details of Power Purchases - Energy procurement from Central Generating Stations during the period April to June 2020

<b>Table 1 - Central Generating Stations</b>							
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)
<b>1.1 NTPC-RSTPS Stage I &amp; II</b>							
Apr-20	164.66	115.65	115.65	2.540	2.577	0.43	0.43
May-20	153.95	110.43	110.43	2.540	2.577	0.41	0.41
Jun-20	125.46	122.95	122.95	2.540	2.470	-0.86	-0.86
Total	444.07	349.03	349.03	2.540	2.539	-0.02	-0.02
<b>1.2 NTPC-RSTPS Stage III</b>							
Apr-20	41.39	0.00	0.00	2.490	0.000	0.00	0.00
May-20	42.77	0.00	0.00	2.490	0.000	0.00	0.00
Jun-20	41.39	27.28	27.28	2.490	2.429	-0.17	-0.17
Total	125.55	27.28	27.28	2.490	2.429	-0.17	-0.17
<b>1.3 NTPC Talcher-II STPS</b>							
Apr-20	289.76	272.00	272.00	1.770	2.000	6.26	6.26
May-20	299.42	287.25	287.25	1.770	1.894	3.56	3.56
Jun-20	289.76	267.54	267.54	1.770	1.910	3.75	3.75
Total	878.94	826.79	826.79	1.770	1.934	13.56	13.56
<b>1.4 NLC - TPS – II Stage 1</b>							
Apr-20	27.22	20.81	20.81	2.690	2.764	0.15	0.15
May-20	35.86	16.99	16.99	2.690	2.771	0.14	0.14
Jun-20	27.22	21.09	21.09	2.690	2.771	0.17	0.17
Total	90.30	58.88	58.88	2.690	2.769	0.46	0.46
<b>1.5 NLC-TPS-II Stage-2</b>							
Apr-20	50.72	21.56	21.56	2.690	2.770	0.17	0.17
May-20	52.41	13.68	13.68	2.690	2.771	0.11	0.11
Jun-20	38.04	20.25	20.25	2.690	2.771	0.16	0.16
Total	141.17	55.49	55.49	2.690	2.771	0.45	0.45

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)
<b>1.6 NLC-TPS-I Expansion</b>							
Apr-20	38.35	39.25	38.35	2.490	2.540	0.20	0.19
May-20	39.63	39.30	39.30	2.490	2.537	0.18	0.18
Jun-20	38.35	39.09	38.35	2.490	2.537	0.18	0.18
Total	116.33	117.64	116.00	2.490	2.538	0.56	0.56
<b>1.7 NLC-TPS-II Expansion</b>							
Apr-20	24.77	22.83	22.83	2.490	2.566	0.17	0.17
May-20	25.60	19.77	19.77	2.490	2.561	0.14	0.14
Jun-20	24.77	25.74	24.77	2.490	2.561	0.18	0.18
Total	75.14	68.34	67.37	2.490	2.563	0.50	0.49
<b>1.8 NTPC Simhadri TPS – Stage II</b>							
Apr-20	51.46	16.62	16.62	2.950	2.984	0.06	0.06
May-20	53.18	14.31	14.31	2.950	3.000	0.07	0.07
Jun-20	28.28	16.27	16.27	2.950	2.945	-0.01	-0.01
Total	132.92	47.20	47.20	2.950	2.975	0.12	0.12
<b>1.9 Vallur STPS</b>							
Apr-20	20.58	1.38	1.38	3.2000	3.5190	0.04	0.04
May-20	31.90	1.38	1.38	3.2000	3.5310	0.05	0.05
Jun-20	30.87	0.60	0.60	3.2000	3.5320	0.02	0.02
Total	83.35	3.36	3.36	3.2000	3.5262	0.11	0.11
<b>1.10 NTPL</b>							
Apr-20	44.80	19.48	19.48	3.280	2.775	-0.98	-0.98
May-20	46.30	11.32	11.32	3.280	2.699	-0.66	-0.66
Jun-20	22.11	22.73	22.11	3.280	2.703	-1.31	-1.28
Total	113.21	53.52	52.90	3.280	2.728	-2.95	-2.92
<b>1.11 NTPC KUDGI(Unit I,II &amp; III)</b>							
Apr-20	66.24	2.85	2.85	3.980	3.590	-0.11	-0.11
May-20	68.45	0.00	0.00	3.980	0.000	0.00	0.00
Jun-20	66.24	0.03	0.03	3.980	3.129	0.00	0.00
Total	200.93	2.88	2.88	3.980	3.585	-0.11	-0.11

**2. Details of Power Purchases - Energy procurement from Private Generators Outside the State during the period April to June 2020.**

<b>Table 2 - Private Generators Outside the State</b>							
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)
<b>2.1 Maithon Power Ltd (150 MW) - Contract I</b>							
Apr-20	99.31	75.30	75.30	2.430	2.674	1.84	1.84
May-20	102.62	75.79	75.79	2.430	2.668	1.80	1.80
Jun-20	99.31	74.57	74.57	2.430	2.757	2.44	2.44
Total	301.24	225.66	225.66	2.430	2.699	6.08	6.08
<b>2.2 Maithon Power Ltd (150 MW) - Contract II</b>							
Apr-20	99.31	75.30	75.30	2.430	2.674	1.84	1.84
May-20	102.62	75.79	75.79	2.430	2.668	1.80	1.80
Jun-20	99.31	74.39	74.39	2.430	2.757	2.43	2.43
Total	301.24	225.49	225.49	2.430	2.699	6.07	6.07
<b>2.3 Jindal Power Limited –Bid I (200 MW)</b>							
Apr-20	123.12	123.08	123.08	1.310	1.310	0.00	0.00
May-20	127.22	129.87	127.22	1.310	1.310	0.00	0.00
Jun-20	123.12	123.79	123.12	1.310	1.310	0.00	0.00
Total	373.46	376.73	373.42	1.310	1.310	0.00	0.00
<b>2.4 Jhabua Power Limited-Bid I (115 MW)</b>							
Apr-20	70.79	69.39	69.39	1.950	1.960	0.07	0.07
May-20	73.15	78.09	73.15	1.950	1.960	0.08	0.07
Jun-20	70.79	74.71	70.79	1.950	1.960	0.07	0.07
Total	214.73	222.20	213.33	1.950	1.960	0.22	0.21
<b>2.5 Jindal Power Limited –Bid II (150 MW)</b>							
Apr-20	92.34	92.33	92.33	1.190	1.310	1.11	1.11
May-20	95.42	97.40	95.42	1.190	1.310	1.17	1.15
Jun-20	92.34	92.85	92.34	1.190	1.310	1.11	1.11
Total	280.10	282.58	280.09	1.190	1.310	3.39	3.36

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)
<b>2.6 Jhabua Power Limited-Bid II (100 MW)</b>							
Apr-20	61.56	60.34	60.34	1.730	1.880	0.91	0.91
May-20	63.61	67.91	63.61	1.730	1.880	1.02	0.95
Jun-20	61.56	63.92	61.56	1.730	1.880	0.96	0.92
Total	186.73	192.17	185.51	1.730	1.880	2.88	2.78
<b>2.7 Jindal India Thermal Power Limited-Bid II (100 MW)</b>							
Apr-20	61.56	59.28	59.28	1.030	1.140	0.65	0.65
May-20	63.61	70.25	63.61	1.030	1.140	0.77	0.70
Jun-20	61.56	59.41	59.41	1.030	1.140	0.65	0.65
Total	186.73	188.93	182.30	1.030	1.140	2.08	2.01
<b>2.9 BALCO – BID II(100 MW)</b>							
Apr-20	61.56	59.17	59.17	1.220	1.160	-0.36	-0.36
May-20	63.61	65.17	63.61	1.220	1.160	-0.39	-0.38
Jun-20	61.56	61.19	61.19	1.220	1.160	-0.37	-0.37
Total	186.73	185.52	183.96	1.220	1.160	-1.11	-1.10
<b>2.10 DVC Mejia (100 MW)</b>							
Apr-20	63.44	51.73	51.73	2.510	2.878	1.90	1.90
May-20	65.56	48.65	48.65	2.510	2.768	1.26	1.26
Jun-20	63.44	48.65	48.65	2.510	2.723	1.04	1.04
Total	192.44	149.03	149.03	2.510	2.791	4.20	4.20
<b>2.11 DVC RTPS (50 MW)</b>							
Apr-20	31.30	11.57	11.57	2.340	3.318	1.13	1.13
May-20	32.35	9.62	9.62	2.340	3.315	0.94	0.94
Jun-20	31.30	8.58	8.58	2.340	3.201	0.74	0.74
Total	94.95	29.77	29.77	2.340	3.283	2.81	2.81

### 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 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	349.03	2.540	2.539	-0.02	-0.02
RSTPS III	125.55	27.28	2.490	2.429	-0.17	-0.17
Talcher Stage-II	878.94	826.79	1.770	1.934	13.56	13.56
Simhadri TPS Stage-II	132.92	47.20	2.950	2.975	0.12	0.12
NLC Stage-I	90.30	58.88	2.690	2.769	0.46	0.46
NLC Stage-II	141.17	55.49	2.690	2.771	0.45	0.45
NLC 1 Expansion	116.33	117.64	2.490	2.538	0.56	0.56
NLC II Expansion	75.14	68.34	2.490	2.563	0.50	0.49
Vallur STPS	83.35	3.36	3.200	3.526	0.11	0.11
NTPL	113.21	53.52	3.280	2.728	-2.95	-2.92
Kudgi	200.93	2.88	3.980	3.585	-0.11	-0.11
<b>Sub Total CGS</b>	<b>2401.91</b>	<b>1610.42</b>	<b>2.47</b>	<b>2.27</b>	<b>12.51</b>	<b>12.53</b>
<b>Private IPPs outside the State</b>						
DVC RTPS	94.95	29.77	2.340	3.283	2.81	2.81
DVC Mejia	192.44	149.03	2.510	2.791	4.20	4.20
Maithon Power Ltd-I	301.24	225.66	2.430	2.699	6.08	6.08
Maithon Power Ltd-II	301.24	225.49	2.430	2.699	6.07	6.07
Jindal Power ltd-Bid I	373.46	376.73	1.310	1.310	0.00	0.00
Jhabua Power Ltd-Bid I	214.73	222.20	1.950	1.960	0.22	0.21
Jhabua Power Ltd-Bid II	280.10	282.58	1.190	1.310	3.39	3.36
Jindal Power ltd-Bid II	186.73	192.17	1.730	1.880	2.88	2.78
JITPL	186.73	188.93	1.030	1.140	2.08	2.01
BALCO	186.73	185.52	1.220	1.160	-1.11	-1.10
	<b>2318.35</b>	<b>2078.08</b>	<b>1.792</b>	<b>1.840</b>	<b>26.62</b>	<b>26.42</b>
	<b>4720.26</b>	<b>3688.49</b>	<b>2.135</b>	<b>2.026</b>	<b>39.12</b>	<b>38.94</b>

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

### Annexure-V

<b>Rate of Fuel Surcharge in Paise per unit</b>	
Amount of Fuel Surcharge (F) in crore	38.94
Energy expected to be billed for Retail sale to whole consumers for the three months starting from December 2020 in MU	6703.81
Energy billed for domestic consumers having monthly consumption less than 20 units and connected load below 20 units for the three months starting from December 2020 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 three months starting from December 2020 (E) in MU	6703.59
Rate of fuel surcharge in Paise per unit (F/E)*100	5.81
<b>Rounded to 6.00 paise per unit</b>	



**Annexure-VI**

<b>Power procurement /sale/transfer through short term contracts/DSM/banking arrangements</b>			
<b>April</b>			
		Energy at Kerala periphery(units)	Amount (Rs )
A	Power purchase through short term contracts		
I	Power Procurement through DEEP portal		
	Adani Enterprises Ltd	6,09,98,970	22,69,16,169
	DB Power Ltd	49,83,480	2,11,29,956
II	Power through exchanges		
	IEX (DAM)	5,71,805	17,86,277
	IEX (TAM)	1,46,540	5,29,525
	IEX (TAM)	76,200	2,52,193
	IEX (TAM)	73,270	3,40,263
	IEX (TAM)	48,850	1,88,175
III	Power transfer through DSM	2,54,39,168	2,92,19,865
<b>May</b>			
I	Power Procurement through DEEP portal		
	Adani Enterprises Ltd	9,58,79,740	36,33,41,183
	DB Power Ltd	51,54,080	2,18,85,831
II	Power through IEX TAM	1,46,550	6,83,265
III	Power transfer through DSM	1,77,33,009	3,14,34,460
<b>June</b>			
I	Power through IEX TAM	14670	21328.06
II	Power through IEX DSM	8574990	7537387
B	Power transfer through Banking arrangements		
	Supply to KSEBL through PTCIL from TPDDL (April)	5,64,30,300	93,80,075
	Return by KSEBL to TPDDL through PTCIL(June)	26628490	1328962
	Return by KSEBL to BYPL (June)	11808990	597707
C	Power sale outside the State		
<b>April</b>			
	IEX(DAM)	8,86,220	26,81,228
<b>May</b>			
	IEX(DAM)	20,25,491	63,96,553
<b>June</b>			
	IEX (DAM)	57,64,680	1,50,01,644
	PXIL (TAM) &RTM	59,455	2,11,500
	IEX (TAM) & RTM	24,76,140	83,39,015

<b>Annexure VII A Power Purchase cost (Approved vs Actual) for first quarter</b>				
<b>Sl No</b>	<b>Source</b>	<b>Energy approved for first quarter (MU)</b>	<b>Rate</b>	<b>Total PP cost (Approved for first quarter)</b>
	<b>Approved</b>			
<b>I</b>	<b>Central generating Stations</b>			
	RSTPS Stage I & II	444.07	3.23	143.44
	RSTPS Stage III	125.55	3.22	40.45
	Talcher Stg II	878.94	2.45	215.18
	Simhadri	132.92	4.41	58.59
	NLC II Stage I	90.30	3.41	30.83
	NLC II Stage II	141.17	3.44	48.55
	NLC Exp Stg I	116.33	3.47	40.40
	NLC II Exp Stg I	75.14	4.98	37.42
	MAPS	33.61	2.84	9.53
	KAIGA Stg I II III & IV	101.44	3.78	38.37
	Kudamkulam Stg I & II	417.51	4.27	178.35
	NTECL,Vallur	83.35	4.90	40.83
	NTPL,Tuticorin	113.21	4.79	54.22
	Kudgi Unit I,II & III	200.93	5.50	110.56
	Bhavini	49.04	4.27	20.95
	<b>Total</b>	<b>3003.51</b>		<b>1067.67</b>
<b>II</b>	<b>IPPs outside the State</b>			
	Maithon I	301.24	3.78	113.89
	Maithon II	301.24	3.78	113.89
	DVC Mejia	192.44	3.89	74.94
	DVC RTPS	94.95	3.95	37.47
	Jindal 200 MW	373.46	3.68	137.52
	Jindal 150 MW	280.10	4.11	115.20
	JITPL 100 MW	186.73	4.11	76.80
	Jhabua 115 MW	214.73	3.86	82.82
	Jhabua 100 MW	186.73	4.11	76.80
	Balco 100 MW	186.73	4.11	76.80
	<b>Sub total</b>	<b>2318.35</b>	<b>3.91</b>	<b>906.11</b>
<b>III</b>	<b>Small IPPS(proportionate)</b>	<b>69.98</b>	<b>3.70</b>	<b>25.87</b>
<b>IV</b>	<b>RPO non solar(proportionate)</b>	<b>172.29</b>	<b>2.90</b>	<b>49.96</b>
<b>V</b>	<b>RPO solar(proportionate)</b>	<b>184.62</b>	<b>3.00</b>	<b>55.39</b>
<b>VI</b>	<b>Transmission charges</b>			
	CGS			116.45
	LTA			30.02
	RGCCPP(proportionate)			0.68
	<b>Total</b>			<b>2252.15</b>

<b>A</b>	<b>Total Power purchase cost approved for first quarter</b>			<b>2252.15</b>
	<b>Actual Power Purchase cost</b>			
	April			631.96
	May			641.84
	June			611.47
<b>B</b>	<b>Total actual power purchase cost (Rs Cr)</b>			<b>1885.27</b>
	*Proportionate quantum corresponding to first quarter taken for Small IPPs inside the State and RPO			

<b>Annexure VIIB Reduction in revenue for first quarter due to reduction in availability and demand</b>			
<b>Sl No</b>	<b>Particulars</b>	<b>Quantum</b>	<b>Unit</b>
I	Reduction in energy demand(MU)	921.02	MU
	<b>Reduction in revenue @ average realisation approved for FY 2019-20 due to reduction in demand (Rs 6.144 per unit)(a)</b>	<b>497.86</b>	<b>Cr</b>
II	Reduction in surplus energy sales	306.34	MU
	<b>Reduction in revenue from surplus sale(b)</b>	<b>153.168</b>	<b>Cr</b>
III	<b>Total reduction in revenue due to reduction in demand/availability(a)+(b)</b>	<b>651.027</b>	<b>Cr</b>
IV	Total reduction in power purchase cost due to reduction in demand/availability(A)-(B) of Annexure VII A	366.88	Cr
<b>V</b>	<b>Net increase in revenue gap</b>	<b>284.15</b>	<b>Cr</b>