

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

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

**FILING NO**            /2022

**CASE No.**

**IN THE MATTER OF:**

Filing of petition on 'Proposals to recover the additional liability incurred during the period from April 2022 to June 2022 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

**Chief Engineer (Commercial & Tariff)**

Affidavit verifying the application for filing the "Proposals to recover the additional liability incurred during period from April 2022 to June 2022 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, Jayaraj.V , son of N.Vasudevan, aged 51 years residing at T.C 16/34 ,Lakshmi Mandiram, Thycaud P.O ,Jagathy, Thiruvananthapuram do solemnly affirm and state as follows:

I am the **Chief Engineer(Commercial & Tariff** 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 day of 16<sup>th</sup> November 2022 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



**Chief Engineer (Commercial & Tariff)**

Kerala State Electricity Board Limited,  
Vydyuthi Bhavanam, Pattom  
Thiruvananthapuram – 695 004

**VERIFICATION**

I, the above named deponent, solemnly affirm at Thiruvananthapuram on this, the 16<sup>th</sup> day of November 2022 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



**Chief Engineer (Commercial & Tariff)**

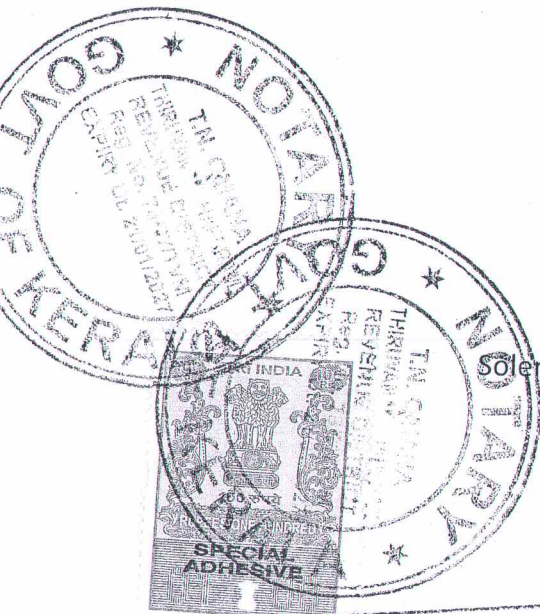
Kerala State Electricity Board Limited  
Vydyuthi Bhavanam, Pattom  
Thiruvananthapuram – 695 004.

Solemnly affirmed and signed before me.



Advocate and Notary

**T.N. OMANA**  
Advocate & Notary  
Thiruvananthapuram Revenue District  
Kerala State South India



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

**IN THE MATTER OF:**                   **Proposals to recover the additional liability incurred during the period from April 2022 to June 2022 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.**

**PETITIONER:**                       **Kerala State Electricity Board Limited(KSEBL)  
Vydyuthi Bhavanam, Pattom,  
Thiruvananthapuram – 695 004**

- I. Regulation 87 of KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2021 notified as per No. 1234/Con.Engg/2021/KSERC dated 16<sup>th</sup> November 2021 (hereinafter referred to as 'Tariff Regulations 2021'), enables KSEBL to pass through the additional expenditure/savings on account of variation in actual fuel cost over approved level through fuel surcharge at the rates approved by the Hon'ble Commission. Regulation 87 (5) therein stipulates that *"Every Distribution business/licensee shall, within forty five days after the close of each quarter, file before the Commission a petition with all relevant details required for the approval of the amount of fuel surcharge to be adjusted from the consumers alongwith the proposed rate and period of such adjustment"*.
- II. This Honourable Commission, as per tariff order dated 25.06.2022, has directed KSEBL to submit regularly, application for approval of fuel surcharge as per provisions of the Tariff Regulations, 2021. KSEBL is filing this petition as per the above regulations.
- III. KSEBL has power allocation from various Central Generating Stations and has entered into long term agreements with various generators for meeting the demand of the State. The details are enclosed as **Annexure-I**.
- IV. Honorable Commission vide order dated 25.06.2022 had approved a quantum of 28024.73 MU as generation and power purchase of KSEBL for the year 2022-23; 7034.33 MU as internal hydro generation, 11190.36 MU as purchase from Central Generating Stations and 5186.22 MU as purchase through long term contracts. Honorable Commission vide MYT order dated 25.06.2022 has also approved the energy schedule estimated by KSEB Ltd for the MYT period from 2022-23 to 2026-27. The present petition is prepared based on the same.

- V. Scheduling of thermal power from fifteen Central Generating Stations and IPPs were approved by this Honorable Commission vide MYT order dated 25.06.2022. Out of the fifteen CGS three are atomic power stations and remaining twelve are thermal stations. Atomic power stations do not have a change in the cost of fuel and hence this petition does not cover those stations. This petition covers only the fuel price variation relating to sources of power approved by this Honorable Commission as mentioned above and as under regulation 87 of Regulations 2021.
- VI. It is submitted that there has been variation in energy availability than approval, from various approved generating stations. Reasons for the same are submitted below:
- i. Change in annual maintenance schedule
  - ii. Coal Shortage
  - iii. Unscheduled outages in generating stations as well as transmission lines
- VII. Estimated energy availabilities of the Central Generating Stations submitted in the MYT petition (2022-27) were based on the maintenance schedules of previous years. Annual maintenance schedule of the CGS for the control period including 2022-23 were not published at the time of submission of MYT petition. There is variation in energy availability from the approval while considering the actual status. Unscheduled outages have also occurred at CGS due to technical issues and coal shortage. The CERC Tariff regulations for the control period from 2019-2024 came into force subsequently and hence there is difference in normative PLF, PAF and auxiliary consumption of certain stations.
- VIII. KSEBL has constituted a “market monitoring committee” for monitoring the power market on a daily basis. Scheduling of CGS and IPPs are being strictly monitored on a day today basis by this committee in order to ensure that the generators are not diverting power to other utilities by backing off supply to KSEBL. Websites of respective RLDCs, are made use of to ensure that the generators are abiding by the provisions of PPA/PSA. Details of station wise availability and reasons for reduction are enclosed as **Annexure-II**. Actual availability for the period from April to June 2022 are indicated in the Regional Energy Account statements of SRPC.
- IX. Invoices for the power supplied are prepared based on the final REA statements published by SRPC. Tariff of the sources of purchase of power mentioned above being determined by the CERC, the charges are calculated applying the formula specified in the tariff regulations issued by CERC. Regarding variable charges, the landed cost of fuel for the month is verified with the details in Form 15. The price of fuel corresponding to the grade and quality is taken from the latest price notification of Coal India Ltd/Singareni Collieries Ltd inclusive of royalty, taxes and duties as applicable. Transportation cost by rail or any other means is taken from the latest freight charges of railways or otherwise. 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.

- X. In addition to the variation in availability as mentioned under para XIV, there is variation in the per unit variable cost also, over the approved level on account of variation in the price of primary fuel as well as secondary fuel, variation in calorific value and cost of transportation of fuel. Following points are submitted in this regard.
- i. 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 the mine, mode of transport etc.
  - ii. 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 shortage from linkage sources, the generating stations has to augment coal from other domestic sources and imported coal as well. 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 and other reasons. Price of coal from Singareni Collieries (SCCL) is based on the price notifications of Singareni Collieries from time to time whereas price of Coal India Ltd (CIL) is based on the notification dated 08.01.2018. Fuel price is based on the coal price and the transportation cost. Coal India Ltd has issued price notification dated 27.11.2020 and revised the price and transportation cost with effect from December 2020. Further Coal India Ltd vide notification dated 30.07.2021 increased the evacuation facility charges by Rs.50/Ton to Rs 60/ton with effect from 01-08-2021 vide CIL price notification No CIL/M& S/pricing 733 dated 30-07-2021 and as per MCL notification 182/30-07-2021 surface transportation charges applicable for MCL from 01-08-2021 to 31-01-2022 has been increased to Rs. 83/ton (for 3-10km) from the existing rate of Rs 74/Ton.
  - iii. There are frequent revisions in SCCL price notification compared to CIL. Following price revisions have been notified by SCCL subsequent to MYT petition which has contributed to increase in energy charges.
    1. SCCL price notification no.128/2021-22 dtd 31.08.2021 wef 01.09.2021.
    2. Corrigendum 1 to price notification no,128/2021-22 dtd 05.09.2021.
    3. Corrigendum 2 to price notification no,128/2021-22 dtd 14.09.2021.
    4. SCCL price notification no.129/2021-22 dtd 30.09.2021 wef 01.10.2021.
    5. SCCL price notification no.130/2021-22 dtd 30.10.2021 wef 01.11.2021
    6. Corrigendum 1 to price notification no,130/2021-22 dtd 30.11.2021.
    7. SCCL price notification no.131/2021-22 dtd 10.01.2022 wef 11.01.2022
    8. SCCL price notification no.132/2021-22 dtd 28.02.2022 wef 01.03.2022
    9. SCCL price notification no.133/2021-22 dtd 12.05.2022 wef 13.05.2022.
    10. SCCL price notification no.134/2021-22 dtd 31.05.2022 wef 01.06.2022
    11. Corrigendum 1 to price notification no,134/2021-22 dtd 04.06.2022.
    12. Corrigendum 2 to price notification no,134/2021-22 dtd 28.06.2022.

- iv.** Monthly energy charges vary depending upon the receipt of coal from different sources. The energy charge rate calculated as per Tariff regulations is based on the following formula:

$$\text{Energy charge rate} = \frac{\{(GHR-SFC*CVSF) *LPPF/CVPF+(SFC*LPSFi) +(LC*LPL)\}}{100/(100-Aux)}$$

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; 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:

- v.** Energy charges depends on gross calorific value of primary and secondary fuel CVPF, and CVSF 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 have 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.
- vi.** The reason for wide variations in energy charges for the first quarter is due to the change in blending ratio of coal owing to coal shortage. In March 2022 onwards, India witnessed a period of demand surge coupled with supply shortage. The demand surged factors like rise in temperature due to early onset of summers and increase in economic activities due to lifting of Covid-19 restrictions. The availability of domestic fuel for meeting the increase in demand was limited due to domestic constraints. The steep increase in electricity demand during the first quarter has necessitated that the thermal generating stations generate and supply electricity to their maximum feasible level. Hence the generators have to resort high cost coal particularly imported coal which leads to significant increase in fuel cost. This increased prices also led to a significant increase in marginal cost of power in exchange also.

vii. **Regulation 43(3)** of CERC Regulations, 2019, provides the following:

*where the energy charge rate based on weighted average price of fuel upon use of alternative source of fuel supply exceeds 30% of the base energy charge rate as approved by the Commission for that year or exceeds 20% of energy charge rate for the previous month, whichever is lower shall be considered and in that event, prior consultation with beneficiary shall be made at least three days in advance.*

- viii. As per the above provision, beneficiaries had the right to restrict the energy charge of Gencos to 120% of energy charge rate for the previous month or 130% of the base energy charge rate as approved by the Commission for that year, whichever is lower. Accordingly, KSEBL has deducted **Rs.33,30,47,620/-** from energy charges of various generators from April 2022 to July 2022.
- ix. However, on account of shortage of domestic coal, the coal based thermal generating stations are constrained to restrict their generation, thereby resulting in shortfall in supply of electricity. In order to address issue of depleting coal stocks and building stocks before onset of monsoon, Ministry of Power vide letter 28.04.2022 allowed blending of imported coal upto 10% of the total coal requirement. But due to the coal scarcity, generating station such as Kudgi was blending imported coal more than 10% in the month of March 2022 & April 2022 .
- x. Even after the direction, MoP observed that the import of coal was not at the required level and some generating companies were not willing to import coal for blending due to clarity of compensation on account of import of coal. St ate Governments and SERC's were requested vide MOP vide letter dated 18.05.2022 to ensure that all generating stations under them to take immediate action for importing coal for blending.
- xi. Based on the request of Gencos and in public interest Ministry of Power, Gol, vide its letter No.23/13/2021-R&R(Pt-1) dated **18.05.2022**, issued direction to CERC to immediately allow higher amount of blending upto 30% with decision of MoP, subject to technical feasibility, without beneficiaries consultation for the period upto **31<sup>st</sup> March 2023** to maintain resource adequacy and 24x7 supply to consumers.
- xii. CERC, vide Order dated **26.07.2022**, allowed blending upto 20% from alternate sources of fuel supply including imported coal, subject to technical feasibility, for the period upto 31.10.2022 without prior permission from the beneficiaries. The Commission also ordered that the operation of second and third provisions of Sub regulation 3 of Regulation 43 of 2019 Tariff Regulation shall be kept in abeyance.
- xiii. But, the above CERC Order has no specific direction regarding the date of implementation of the Order or regarding the deduction prior to the date of the Order. The generators had requested to release all the withheld amounts in view of the CERC Order dated 26.07.2022.

xiv. Meanwhile, The Ministry of Power, Government of India, on **3<sup>rd</sup> June 2022** issued the Electricity (Late Payment Surcharge and Related Matters) Rules 2022 which are applicable to outstanding dues **not stayed by a competent court or Tribunal or dispute resolution agency as designated in the Power Purchase Agreement**, which remains unpaid by the beneficiary beyond the due date. Excerpts of the said Rule are given below:

- **Rule 3** - the Late Payment Surcharge shall be payable on the payment outstanding after the due date at the base rate of Late Payment Surcharge applicable for the period for the first month of default and the rate of Late Payment Surcharge for the successive months of default shall increase by 0.5 percent for every month of delay provided that the Late Payment Surcharge shall not be more than three per cent higher than the base rate at any time: Provided that the rate, at which Late Payment Surcharge shall be payable, shall not be higher than the rate of Late Payment Surcharge specified in the agreement, if any.
- **Rule 7 – Regulation of access to defaulting entities:-**In case of non-payment of dues, by the distribution licensee or other user of transmission system, even after two and half months from presentation of bill by the generating company or transmission licensee or trading licensee, or in case of default in the payment of instalments fixed under Rule 5, the power supply to the defaulting entity shall be regulated as follows:-
  - (1) Short-term access, for sale and purchase of electricity including in the power exchange shall be regulated entirely:  
Provided that the same shall be also applicable on already approved short term access:  
Provided further that the National Load Despatch Centre may, under exceptional circumstances for grid security, temporarily review the regulation of short term access under this rule, and record the reasons for doing so, in writing.
  - (2) If, even one month after the regulation of the short term access or if the dues have remained unpaid for three and a half months, apart



from the regulation of the short term access in its entirety, the long and medium-term access shall be regulated by Ten percent.

- xv. Considering the stringent provisions in the Electricity (Late payment surcharge and other matters) Rules, 2022, KSEBL decided to release 95% of the disputed amount upto the date of Order in line with the Tripartite Agreement (TPA) provisions under “**protest**” with a condition to recover the differential amount with LPSC as per Rules and to take up the matter with the Central Electricity Regulatory Commission as early as possible for removing the ambiguity on the effective date of the CERC Order dated 26.07.2022.

- XI. 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-22	May-22	Jun-22
<b>Central Generating Stations</b>					
1	NTPC-RSTPS Stage I & II	2.780	3.087	3.272	4.583
2	NTPC-RSTPS Stage III	2.610	3.043	3.086	3.637
3	Talcher	1.870	1.761	1.609	1.896
4	Simhadri TPS Stage II	2.920	3.625	3.665	3.923
5	NLC-Stage-1	2.700	2.667	2.667	2.734
6	NLC-Stage-II	2.700	2.667	2.667	2.734
7	NLC I Expansion	2.460	2.434	2.434	2.443
8	NLC II Expansion	2.600	2.586	2.586	2.583
9	Vallur STPS	3.190	3.187	3.735	3.938
10	NTPL	3.070	3.864	4.029	4.043
11	NTPCKudgi	3.560	5.229	5.113	5.444
12	NNTPP	2.240	2.186	2.186	2.199
<b>Independent Power Producers</b>					
13	RTPS	3.140	3.095	3.012	3.331
14	Mejia	2.930	3.089	2.881	3.480
15	Maithon I	2.540	2.536	2.615	2.698
16	Maithon II	2.540	2.536	2.615	2.698
17	Jindal Power Ltd-Bid I	1.330	1.330	1.330	1.330
18	BALCO	1.180	0.000	0.000	0.000

- XII. The summary of additional liability for first quarter of 2022-23 as per fuel surcharge regulations is given in **table 2** below.

<b>Table 2 Additional liability for the first quarter 2022-23</b>							
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	2395.88	2377.37	2193.23	2.482	2.772	81.71	79.35
IPPs	1338.93	1165.25	1112.23	2.103	2.323	8.32	7.71
Total	3734.81	3542.62	3305.45	2.346	2.625	90.03	87.07

- XIII. It can be seen from the above table that as per the Regulations there is an additional liability of Rs 79.35 Cr as per the Regulations during the first quarter of FY 2022-23 while purchasing 2377.37 MU of energy from various Central Generating Stations approved vide order dated 25.06.2022. Further there is a net additional liability of Rs 7.71 Cr as per regulation on account of purchase of energy from various IPPs approved by Honorable Commission vide order dated 25.06.2022. Thus KSEBL is claiming Rs 87.07 Cr(79.35+7.71) as additional liability for the first quarter of Financial year 2022-23 .
- XIV. Details in this regard as per the provisions of fuel surcharge formula specified in Tariff Regulations, 2021, are furnished in **Annexure III**.
- XV. **Details regarding other purchases of power, which are not eligible for fuel price variation as per Regulations 2021**
- XVI. KSEBL scheduled 0.12 MU from KDPP during the first quarter in order to meet the demand. KSEBL purchased 797.80 MU through 415 MW contracts under DBFOO basis (415 MW) which is not approved by Honorable Commission vide MYT order dated 24.06.2022. As the matter is pending before Honorable Supreme Court, KSEBL humbly requests before the Honorable Commission to pass on the amount payable on account of these contracts as per final orders, as and when the same materializes.
- KSEBL purchased 326.92 MU through medium term contracts, 123.45 MU through exchanges and 17.88 MU through deviation settlement mechanism during the first quarter of FY-2022-23.
  - KSEBL sold 421.12 MU during first quarter through exchanges. The details of power procurement/sale through short term transactions is enclosed as **Annexure V**.

XVII. It is submitted that 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.* For calculation purpose, KSEBL is considering the energy sales for the period of three months from December 2022 for calculating the rate of fuel surcharge recovery. This amounts to 14 paise per unit. Details of calculation are furnished in **Annexure IV.**

**PRAYER**

KSEBL humbly prays before this Hon’ble Commission that,

- (a) Additional financial liability incurred by KSEBL, amounting to Rs 87.07 Cr, resulting from the variation in variable charges of power purchase from approved sources for the period from April to June 2022 as per regulation 87 of KSERC Tariff Regulations 2021 as detailed in **Annexure III & IV** 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 87 of KSERC Tariff Regulations 2021, @ 14 paise per unit from 1<sup>st</sup> December 2022 onwards.

**Chief Engineer (Commercial & Tariff)**

Acc: 1. Formats I, III & IV  
2. Annexure I-V

## Formats

**Format-1**

Provisional Details of energy billed for retail sale for the first quarter of FY 2022-23						
Month	Energy billed (MU)*		T&D loss(%)		Energy Input(MU)	
	Actual	Approved	Actual	Approved	Actual	Approved
April	2226.52			11.22% at the end of year	2455.14	
May	2253.77				2339.46	
June	2105.04				2251.41	
Total	6386.03				7046.02	

\*KSEBL is unable to furnish the monthly energy sales corresponding to energy input of a particular month and monthly T&D loss as required by the Honorable Commission due to following constraints.

In the current billing system almost 98% of consumers are billed bimonthly and the billing is done for almost all days for LT Domestic and Commercial bimonthly consumers. Hence the energy sales details corresponding to the energy input of a particular month is not available due to this extended billing. The energy billed data for a particular month includes the energy billed data for the previous two months from the date of billing and not the energy sales against the energy input of that particular month. Hence KSEBL is unable to furnish the monthly T&D loss and energy sales against the energy input of a particular month.

Instead KSEBL is furnishing the energy billed data for the month of April, May & June 2022 in the above table and not the energy sales corresponding to energy input during the quarter. The energy input and energy billed shown is exclusive of energy wheeled by embedded open access consumers and consumption against captive generation. The energy billed during July 2022 was 2027.14 MU.

Format-3						
Month Wise Details of Purchase of Energy						
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-2022</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	137.28	139.46	3.087	2.78	42.38	38.77
RSTPS III	40.88	35.01	3.043	2.61	12.44	9.14
Talcher Stage-II	279.52	245.01	1.761	1.87	49.22	45.82
Simhadri TPS Stage II	59.00	49.32	3.625	2.92	21.39	14.40
NLC Stage-I	37.83	34.71	2.667	2.70	10.09	9.37
NLC Stage-II	57.23	49.58	2.667	2.70	15.26	13.39
NLC 1 Expansion	45.28	38.15	2.434	2.46	11.02	9.38
NLC II Expansion	23.82	42.04	2.586	2.60	6.16	10.93
Vallur STPS	30.69	28.83	3.187	3.19	9.78	9.20
NTPL	21.33	41.62	3.864	3.07	8.24	12.78
Kudgi	54.66	64.17	5.229	3.56	28.59	22.84
NNTPP	18.28	18.59	2.186	2.24	3.99499	4.16
<b>Sub total CGS</b>	<b>805.79</b>	<b>786.48</b>			<b>218.56</b>	<b>200.18</b>
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	17.66	28.61	3.095	3.14	5.46	8.98
DVC Mejia TPS	59.92	57.99	3.089	2.93	18.51	16.99
Maithon Power Ltd- Contract 1	89.39	85.06	2.536	2.54	22.67	21.61
Maithon Power Ltd- Contract II	89.39	85.06	2.536	2.54	22.67	21.61
Jindal Power Ltd-Bid I	118.97	123.12	1.330	1.33	15.82	16.37
BALCO	0.00	61.56	0.00	1.18	0.00	7.26
<b>TOTAL LTA</b>	<b>375.33</b>	<b>441.40</b>			<b>85.14</b>	<b>92.83</b>
<b>Total</b>	<b>1181.12</b>	<b>1227.88</b>			<b>303.70</b>	<b>293.00</b>
<b>May- 2022</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	125.95	144.11	3.272	2.78	41.21	40.06
RSTPS III	38.76	36.18	3.086	2.61	11.96	9.44
Talcher Stage-II	290.30	253.18	1.609	1.87	46.71	47.34
Simhadri TPS Stage II	41.87	50.96	3.665	2.92	15.35	14.88
NLC Stage-I	31.86	35.87	2.667	2.70	8.50	9.68
NLC Stage-II	50.11	51.23	2.667	2.70	13.36	13.83
NLC 1 Expansion	45.60	39.42	2.434	2.46	11.10	9.70
NLC II Expansion	34.06	43.44	2.586	2.60	8.81	11.30
Vallur STPS	27.00	29.79	3.735	3.19	10.09	9.50
NTPL	34.64	43.00	4.029	3.07	13.95	13.20
Kudgi	35.68	66.31	5.113	3.56	18.24	23.61
NNTPP	23.12	19.21	2.186	2.24	5.05	4.30

Total	778.94	812.69			204.33	206.85
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	22.46	29.56	3.012	3.14	6.76	9.28
DVC Mejia TPS	56.67	59.92	2.881	2.93	16.33	17.56
Maithon Power Ltd- Contract I	93.19	87.90	2.615	2.54	24.37	22.33
Maithon Power Ltd- Contract II	93.19	87.90	2.615	2.54	24.37	22.33
Jindal Power Ltd-Bid I	121.28	127.22	1.330	1.33	16.13	16.92
BALCO	0.00	63.61	0.000	1.18	0.00	7.51
TOTAL LTA	386.77	456.12			87.96	95.92
<b>Total</b>	<b>1165.72</b>	<b>1268.81</b>	<b>0.000</b>	<b>0.00</b>	<b>292.29</b>	<b>302.77</b>
<b>June- 2022</b>						
<b>Central Generating Stations</b>						
RSTPS I & II	150.78	139.46	4.583	2.780	69.10	38.77
RSTPS III	15.07	35.01	3.637	2.610	5.48	9.14
Talcher Stage-II	287.19	245.01	1.896	1.870	54.45	45.82
Simhadri TPS Stage II	28.64	49.32	3.923	2.920	11.23	14.40
NLC Stage-I	35.01	34.71	2.734	2.700	9.57	9.37
NLC Stage-II	43.89	49.58	2.734	2.700	12.00	13.39
NLC 1 Expansion	45.33	38.15	2.443	2.460	11.07	9.38
NLC II Expansion	33.00	42.04	2.583	2.600	8.52	10.93
Vallur STPS	29.48	28.83	3.938	3.190	11.61	9.20
NTPL	38.65	41.62	4.043	3.070	15.62	12.78
Kudgi	67.07	64.17	5.444	3.560	36.51	22.84
NNTPP	18.59	18.52	2.199	2.24	4.09	4.15
Total	792.63	786.41			249.27	200.16
<b>Long Term contracts with generators outside the State</b>						
DVC Reghunathpur TPS	22.11	28.61	3.331	3.140	7.37	8.98
DVC Mejia TPS	55.91	57.99	3.480	2.930	19.46	16.99
Maithon Power Ltd- Contract 1	100.82	85.06	2.698	2.540	27.20	21.61
Maithon Power Ltd- Contract II	100.82	85.06	2.698	2.540	27.20	21.61
Jindal Power Ltd-Bid I	123.47	123.12	1.330	1.330	16.42	16.37
BALCO	0.00	61.56	0.000	1.180	0.00	7.26
TOTAL LTA	403.15	441.40	2.422	2.100	97.65	92.83
<b>Total</b>	<b>1195.78</b>	<b>1227.81</b>	<b>2.901</b>	<b>2.390</b>	<b>346.90</b>	<b>292.99</b>

**Format-4**

<b>Sourcewise Energy Input from April-2022 to Jun 2022 in MU</b>										
Sl No	Particulars	Apr-22		May-22		Jun-22		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	810.00		643.43		548.12		2001.55		2001.55
	(b) Less Aux consumption*	3.53		3.62		3.31		10.46		10.46
	(c) Net Hydro Gen	806.47		639.81		544.81		1991.09		1991.09
2	KSEB thermal									
	(a) BDPP	0.00		0.00		0.00		0.00	0.00	
	(b) KDPP	0.12		0.01		0.00		0.12	0.00	
	(c) Subtotal	0.12		0.01		0.00		0.12	0.00	
	(d) Less Aux consumption	0.00		0.00		0.00		0.00	0.00	
	(e) Net BDPP+KDPP	0.12		0.01		0.00		0.12	0.00	
3	Wind Generation(net)	0.04		0.14	0.01	0.15	0.14	0.34	0.15	0.18
4	Solar Generation(net)	1.96		1.58	3.97	1.60	3.97	5.14	7.93	-2.79
	Total own generation(net)	808.59		641.54	3.98	546.56	4.11	1996.69	8.08	1988.61
3	CGS (Import)	957.25	952.42	927.94	984.17	1020.51	952.42	2905.70	2889.02	16.68
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	3.89	122.98 annually	12.47	146.74 annually	17.28	146.74 annually	33.64		
	Solar	18.33	146.74 annually	16.07	146.74 annually	18.96	146.74 annually	53.37		
	Ullunkal(EDCL)**	1.85		1.99		1.98		5.81		
	Iruttukanam -I	0.60		1.74		1.95		4.29		
	Iruttukanam Stage-II	0.11		0.83		0.85		1.80		
	Karikkayam (AHPL)	3.81		5.12		4.23		13.17		
	Meenvallom (PSHCL)	0.09		0.43		1.81		2.33		
	Pathamkayam (MREPL)	0.00		0.78		4.14		4.92		
	Deviyar-Micro HEP	0.00		0.00		0.00		0.00		
	Anakampoyil	0.00		0.75		4.67		5.43		
	Arippara	0.00		0.43		2.33		2.76		
	Sub total SHEP	6.46	141.71 MU annually	12.07	141.71 MU annually	21.97	141.71 MU annually	40.50	141.71 MU annually	
	Subtotal	28.69	280.70 annually	39.43	280.70 annually	58.22	280.70 annually	126.33	280.70 annually	
5	Purchase through Longterm contract									
i	DVC Reghunathpur	17.66	28.61	22.46	29.56	22.11	28.61	62.23	86.78	-24.55
ii	DVC Mejia	59.92	57.99	56.67	59.92	55.91	57.99	172.50	175.89	-3.39
iii	Maithon power-1	89.39	85.06	93.19	87.90	100.82	85.06	283.40	258.03	25.37



Sourcewise Energy Input from April-2022 to Jun 2022 in MU										
Sl No	Particulars	Apr-22	May-22	Jun-22	Total					
		Actual	KSERC order	Actual	KSERC order	Actual	KSERC order	Actual	KSERC order	Difference
		(MU)	(MU)	(MU)	(MU)	(MU)	(MU)	(MU)	(MU)	(MU)
iv	Maithon power-2 ,	89.39	85.06	93.19	87.90	100.82	85.06	283.40	258.03	25.37
v	Jindal Power Ltd -Bid I	118.97	123.12	121.28	127.22	123.47	123.12	363.72	373.46	-9.74
vi	Jhabua power Ltd-Bid I	67.83		71.70		70.29		209.82	0.00	209.82
vii	Jhabua power Ltd-Bid II	59.00		62.35		61.12		182.47	0.00	182.47
viii	Jindal Power Ltd -Bid I	89.23		90.96		92.60		272.79	0.00	272.79
ix	Purchase from JITPL	53.96		50.75		28.18		132.89	0.00	132.89
x	Purchase from BALCO	0.00	61.56	0.00	63.61	0.00	61.56	0.00	186.73	-186.73
	Sub Total	645.36	441.40	662.53	456.12	655.34	441.40	1963.23	1338.93	624.31
6	SECI- PPA1(against RE energy approved)	10.51		15.80		16.11		42.42		
	SECI -PPA2(against RE energy approved)	15.76		23.70		16.41		55.87		
	TOTAL from SECI	26.27	210 annually	39.50	210 annually	32.52	210 annually	98.29	210 annually	
7	<b>Short Term contracts/MTOA</b>	171.47		151.15		15.40				
	Purchase through exchanges at SR periphery	20.89		63.18		43.70		127.77		
8	Deviation settlement mechanism at Kerala periphery	-2.21		11.16		8.93		17.88		
9	SWAP									
10	Additional non solar RPO aproved		72.18 MU annually		72.18 MU annually		72.18 MU annually		72.18 MU annually	
11	Additional solar RPO aproved		898.79 MU annually		898.79 MU annually		898.79 MU annually		898.79 MU annually	
	Power Purchase	1847.71		1894.89		1834.62		5326.22		
	PGCIL losses	61.27		59.44		57.92		178.64		
	Net Power Purchase	1786.44		1835.45		1776.71		5398.59		
	Total Gen & PP	2595.03		2476.99		2323.26		7395.28		
	External sale	139.89	annual l sale:-	137.53	annual sale:-	71.85	annual sale:-	349.26	annual sale:-	
	Swap return		1946.22 MU		1946.22 MU		1946.22 MU	0.00	1946.22 MU	
	Energy demand	2455.14	2627.58	2339.46	2671.15	2251.41	2243.63	7046.02	7542.36	
*Note:-Auxiliary consumption shown does not including transformer losses and switch yard losses										

Annexure-I				
Power contracted through long Term agreements				
Allocation from Central Generating Stations				
No.	Station	IC (MW)	Allocation	Allocated Capacity to KSEBL (MW)
		MW	%	2021-22
		MW	%	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	1000	3.24%	32.4
	<b>Total</b>			<b>1756.54</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		

**Annexure II Details of energy availability for the first quarter of FY-22-23**

Sl.No	Name of the Station	Availability						Reason for low availability
		April		May		June		
		peak	off peak	peak	off peak	peak	off peak	
1	NTPC RSTPS Stg I & II	85.303	85.136	86.102	86.484	90.647	90.832	Above Normative availability
2	NTPC RSTPS Stage III	102.471	102.471	101.23	100.937	70.235	69.744	Annual overhauling during June
3	NTPC Talcher II	100.207	100.651	101.83	101.774	102.591	102.632	Above Normative availability
4	NTPC SimhadriStg II	100.345	100.89	80.518	81.075	66.226	66.51	
5	NLC TPS I Expansion	100.963	100.71	99.744	99.441	100.343	100.19	Above Normative availability
6	NLC TPS II Expansion	44.234	45.069	63.911	63.018	63.226	62.608	
8	NLC - II - Stage I	93.633	92.976	76.179	77.46	85.433	86.143	U1 under FSD from 01.05.22 to 03.05.22, 07.05.22 to 09.05.22 & 20.5.22 to 27.5.22. U2 - under FSD from 08.05.22 to 09.05.22, 11.5.22 to 14.5.22 & 21.5.22 to 23.5.22. U3 - under FSD from 16.5.22 to 17.5.22 & 27.05.22 to 28.05.22
9	NLC - II - Stage II	97.765	98.178	84.279	84.917	74.979	75.54	U4 under FSD from 29.05.22 to 31.05.22, U5 from 14.05.22 to 18.05.22, U6 under from 21.05.22 to 24.05.22 & U7 from 01.05.22 to 06.05.22 .U4 under FSD from 21.06.22 to 23.06.22 & 29.06.22. U6 under FSD from 28.06.22 to 30.06.22 . U7 under FSD from 05.06.22 to 06.06.22 & under PSD from 14.06.22 to 30.06.22.
10	NTECL Vallur	95.084	94.52	97.835	97.627	95.724	95.514	Above Normative Availability
11	NTPL	43.934	43.752	96.281	96.26	87.53	87.004	
12	Kudgi	82.561	70.001	88.488	84.2	100.75	100.494	U2 - under FSD from 09.04.22 to 17.04.22 & 20.04.22 to 28.4.22 & on 30.04.22.U1 under FSD on 20.05.22 & under RSD from 28.05.22 to 30.05.22. U2 under 23.05.22 to 27.05.22. U3 - under FSD from 01.05.22 to 07.05.22 & on 31.05.22. U3 - under RSD from 21.05.22 to 31.05.22.

Annexure II Details of energy availability for the first quarter of FY-22-23								
SI No	Name of station	April		May		June		Reason for low availability
		Peak	Offpeak	Peak	Offpeak	Peak	Off peak	
13	NNTPP	84.415	83.363	101.79	102.355	84.906	84.599	U1 - under forced outage on 11.04.22 & from 21.04.22 to 26.04.22. U2 - under forced outage from 17.04.22 to 23.04.22 & on 28.04.22;U1 under forced outage from 05.06.22 to 14.06.22. U2 under forced outage from 05.06.22 to 06.06.22.
14	DVC Mejia (100MW)	90.069	89.574	90.186	90.186	87.875	87.881	Above Normative Availability
15	DVC RTPS (50 MW)	52.129	52.172	61.149	61.501	65.694	65.925	
16	Maithon Power Ltd-PPA I	88.09	89.45	89.86	91.05	99.64	100	
17	Maithon Power Ltd-PPA II	88.09	89.45	89.86	91.05	99.64	100	
18	Jindal Power Ltd-PSA 1	84.16		85.80		87.34		
19	BALCO	0		0		0		M/s. BALCO has been declaring nil availability since April 2022. The sudden outage of RTC power of 100 MW has resulted in serious reduction in the power availability of the state from April 2022. Since then BALCO has been requested several times to take urgent actions for rectifying the issues, Based on the circular dated 26.03.2022 of the Ministry of Power, Government of India, letter has been issued to BALCO, informing that the action of the firm of not providing the contracted power to KSEBL is breach of the contract with a long term agreement consumer, KSEBL and BALCO has to pay all the damages as per the agreement. The non-availability of power from BALCO has been intimated to the MOP, Govt.

					<p>of India through Govt. of Kerala. M/S. BALCO has intimated that the power generated from the power plant is primarily being used under captive arrangement for running its Aluminium Smelters situated in Korba, Chhattisgarh. Due to the exigencies on account of stalled coal supply in non power sector imposed by MOP, BALCO was forced to import power from exchanges in order to keep the aluminium smelters operational, for which BALCO had to use the grid connectivity. However, on application to WRLDC for standing clearance for aforesaid import of power, WRLDC has issued standing clearance to BALCO for transacting power through Power Exchanges subject to the condition that, BALCO should ensure that at any point of time there shall not be both import and export of power. In other words, no Export of power is allowed during the period of power import to meet the captive load. It was only then that, BALCO being left with no option utilised the available grid connectivity for the purposes of importing power for its captive load, in order to ensure the continuous operations of its smelters. As such, BALCO was unable to supply power to the LTA beneficiaries including KSEBL</p>
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## ANNEXURE III

### DETAILS OF ADDITIONAL LIABILITY

**1. Details of Power Purchases - Energy procurement from Central Generating Stations during the period April 2022 to June 2022**

<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-22	139.46	137.28	137.28	2.780	3.087	4.21	4.21
May-22	144.11	125.95	125.95	2.780	3.272	6.20	6.20
Jun-22	139.46	150.78	139.46	2.780	4.58	27.18	25.14
Total	423.04	414.00	402.69	2.780	3.688	37.59	35.55
<b>1.2 NTPC-RSTPS Stage III</b>							
Apr-22	35.01	40.88	35.01	2.610	3.043	1.77	1.52
May-22	36.18	38.76	36.18	2.610	3.086	1.85	1.72
Jun-22	35.01	15.07	15.07	2.610	3.637	1.55	1.55
Total	106.19	94.71	86.26	2.610	3.155	5.16	4.79
<b>1.3 NTPC Talcher-II STPS</b>							
Apr-22	245.01	279.52	245.01	1.870	1.761	-3.05	-2.67
May-22	253.18	290.30	253.18	1.870	1.609	-7.58	-6.61
Jun-22	245.01	287.19	245.01	1.870	1.896	0.75	0.64
Total	743.20	857.01	743.20	1.870	1.755	-9.88	-8.64
<b>1.4 NLC - TPS – II Stage 1</b>							
Apr-22	34.71	37.83	34.71	2.700	2.667	-0.12	-0.11
May-22	35.87	31.86	31.86	2.700	2.667	-0.11	-0.11
Jun-22	34.71	35.01	34.71	2.700	2.734	0.12	0.12
Total	105.29	104.70	101.28	2.700	2.689	-0.11	-0.10
<b>1.5 NLC-TPS-II Stage-2</b>							
Apr-22	49.58	57.23	49.58	2.700	2.667	-0.19	-0.16
May-22	51.23	50.11	50.11	2.700	2.667	-0.17	-0.17
Jun-22	49.58	43.89	43.89	2.700	2.734	0.15	0.15
Total	150.38	151.24	143.58	2.700	2.686	-0.20	-0.18

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-22	38.15	45.28	38.15	2.460	2.434	-0.12	-0.10
May-22	39.42	45.60	39.42	2.460	2.434	-0.12	-0.10
Jun-22	38.15	45.33	38.15	2.460	2.443	-0.08	-0.06
Total	115.72	136.20	115.72	2.460	2.437	-0.31	-0.27
<b>1.7 NLC-TPS-II Expansion</b>							
Apr-22	42.04	23.82	23.82	2.600	2.586	-0.03	-0.03
May-22	43.44	34.06	34.06	2.600	2.586	-0.05	-0.05
Jun-22	42.04	33.00	33.00	2.600	2.583	-0.06	-0.06
Total	127.53	90.89	90.89	2.600	2.585	-0.14	-0.14
<b>1.8 NTPC Simhadri TPS – Stage II</b>							
Apr-22	49.32	59.00	49.32	2.920	3.625	4.16	3.48
May-22	50.96	41.87	41.87	2.920	3.665	3.12	3.12
Jun-22	49.32	28.64	28.64	2.920	3.923	2.87	2.87
3Total	149.60	129.52	119.83	2.920	3.704	10.15	9.47
<b>1.9 Vallur STPS</b>							
Apr-22	28.83	30.69	28.83	3.190	3.187	-0.01	-0.01
May-22	29.79	27.00	27.00	3.190	3.735	1.47	1.47
Jun-22	28.83	29.48	28.83	3.190	3.938	2.20	2.16
Total	87.44	87.17	84.65	3.190	3.611	3.67	3.62
<b>1.10 NTPL</b>							
Apr-22	41.62	21.33	21.33	3.070	3.864	1.69	1.69
May-22	43.00	34.64	34.64	3.070	4.029	3.32	3.32
Jun-22	41.62	38.65	38.65	3.070	4.043	3.76	3.76
Total	126.24	94.61	94.61	3.070	3.998	8.78	8.78
<b>1.11 NTPC KUDGI(Unit I,II &amp; III)</b>							
Apr-22	64.17	54.66	54.66	3.560	5.229	9.13	9.13
May-22	66.31	35.68	35.68	3.560	5.11	5.54	5.54
Jun-22	64.17	67.07	64.17	3.560	5.44	12.64	12.09
Total	194.64	157.42	154.52	3.560	5.294	27.30	26.76
<b>1.12 NNTPP</b>							
Apr-22	18.59	18.28	18.28	2.240	2.186	-0.10	-0.10
May-22	19.21	23.12	19.21	2.240	2.19	-0.12	-0.10
Jun-22	28.83	18.52	18.52	2.240	2.199	-0.08	-0.08
Total	66.62	59.91	56.00	2.240	2.190	-0.30	-0.28

**2. Details of Power Purchases - Energy procurement from Private Generators Outside the State during the period April 2022 to June 2022.**

<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-22	85.06	89.39	85.06	2.540	2.536	-0.04	-0.03
May-22	87.90	93.19	87.90	2.540	2.615	0.70	0.66
Jun-22	85.06	100.82	85.06	2.540	2.698	1.59	1.34
Total	258.03	283.40	258.03	2.540	2.620	2.26	1.97
<b>2.2 Maithon Power Ltd (150 MW) - Contract II</b>							
Apr-22	85.06	89.39	85.06	2.540	2.536	-0.04	-0.03
May-22	87.90	93.19	87.90	2.540	2.615	0.70	0.66
Jun-22	85.06	100.82	85.06	2.540	2.698	1.59	1.34
Total	258.03	283.40	258.03	2.540	2.620	2.26	1.97
<b>2.3 Jindal Power Limited –Bid I (200 MW)</b>							
Apr-22	123.12	118.97	118.97	1.330	1.330	0.00	0.0000
May-22	127.22	121.28	121.28	1.330	1.330	0.00	0.00
Jun-22	123.12	123.47	123.12	1.330	1.330	0.00	0.00
Total	373.46	363.72	363.37	1.330	1.330	0.00	0.00
<b>2.4 BALCO – BID II(100 MW)</b>							
Apr-22	61.56	0.00	0.00	1.180	0.000	0.00	0.00
May-22	63.61	0.00	0.00	1.180	0.000	0.00	0.00
Jun-21	61.56	0.00	0.00	1.180	0.00	0.00	0.00
Total	186.73	0.00	0.00	1.180	0.00	0.00	0.00
<b>2.5 DVC Mejia (100 MW)</b>							
Apr-22	57.99	59.92	57.99	2.930	3.089	0.95	0.92
May-22	59.92	56.67	56.67	2.930	2.881	-0.28	-0.28
Jun-22	57.99	55.91	55.91	2.930	3.48	3.07	3.07
Total	175.89	172.50	170.57	2.930	3.147	3.75	3.72
<b>2.6 DVC RTPS (50 MW)</b>							
Apr-22	28.61	17.66	17.66	3.140	3.095	-0.08	-0.08
May-22	29.56	22.46	22.46	3.140	3.012	-0.29	-0.29
Jun-22	28.61	22.11	22.11	3.140	3.331	0.42	0.42
Total	86.78	62.23	62.23	3.140	3.149	0.06	0.06



### 3 Summary of total additional liability for the first quarter of FY 2022-23

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

Summary of additional liability for first quarter						
Source	Approved energy requirement (MU)	Actual Energy procurement (MU)	Per unit cost		Additional liability	
			Approved (Rs/kWh)	Actual (Rs/kWh)	Actual (Rs. Cr)	Admissible (Rs. Cr)
	<b>CGS</b>					
RSTPS I & II	423.04	414.00	2.780	3.688	37.59	35.55
RSTPS III	106.19	94.71	2.610	3.155	5.16	4.79
Talcher Stage-II	743.20	857.01	1.870	1.755	-9.88	-8.64
Simhadri TPS Stage II	149.60	129.52	2.920	3.704	10.15	9.47
NLC Stage-I	105.29	104.70	2.70	2.69	-0.11	-0.10
NLC Stage-II	150.38	151.24	2.700	2.686	-0.20	-0.18
NLC 1 Expansion	115.72	136.20	2.460	2.437	-0.31	-0.27
NLC II Expansion	127.53	90.89	2.600	2.585	-0.14	-0.14
Vallur STPS	87.44	87.17	3.190	3.611	3.67	3.62
NTPL	126.24	94.61	3.070	3.998	8.78	8.78
Kudgi	194.64	157.42	3.560	5.294	27.30	26.76
NNTPP	66.62	59.91	2.24	2.19	-0.30	-0.28
<b>Sub Total CGS</b>	<b>2395.88</b>	<b>2377.37</b>			<b>81.71</b>	<b>79.35</b>
<b>Private IPPs outside the State</b>						
DVC RTPS	86.78	62.23	3.140	3.149	0.06	0.06
DVC Mejia	175.89	172.50	2.930	3.147	3.75	3.72
Maithon Power Ltd-I, ER	258.03	283.40	2.540	2.620	2.26	1.97
Maithon Power Ltd-II, ER	258.03	283.40	2.540	2.620	2.26	1.97
Jindal Power ltd-Bid I	373.46	363.72	1.330	1.330	0.00	0.00
BALCO	186.73	0.00	1.180	0.000	0.00	0.00
<b>Sub Total IPPS</b>	<b>1338.93</b>	<b>1165.25</b>			<b>8.32</b>	<b>7.71</b>
<b>Total</b>	<b>3734.81</b>	<b>3542.62</b>			<b>90.03</b>	<b>87.07</b>

#### Annexure-IV

<b>Rate of Fuel Surcharge in Paise per unit</b>	
<b>Particulars</b>	<b>Quantum</b>
Amount of Fuel Surcharge (F) in crores	87.07
Energy expected to be billed for Retail sale to whole consumers for the three months starting from December in MU	6053.43
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 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 (E) in MU	6053.21
Rate of fuel surcharge in Paise per unit (F/E)*100	14.38
<b>Rounded to 14.00 paise per unit</b>	

<b>Annexure-V Power procurement /sale/transfer through short term contracts/DSM/banking arrangements</b>			
<b>I</b>	<b>April</b>		
		Energy at Kerala periphery(units)	Amount (Rs )
	Power purchase through short term contracts		
i	Power through exchanges		
	IEX DAM	7968270	84619089
	PXIL (DAM)	0	0
	IE GDAM	370050	3186108
	IEX (RTM)	5856220	62555532
	PXIL (TAM)	6016815	69952336
ii	Power transfer through DSM	-2206110	-34505234
<b>II</b>	<b>May</b>		
i	Power purchase through Exchanges		
	IEX DAM	17447145	428290
	IE GDAM	3672320	90507
	IEX (RTM)	7393137.5	182906
	IEX (TAM)	19126635	475572
	PXIL (TAM)	13340601	346735
ii	Power transfer through DSM	11,157,712	-15,508,458
	<b>June</b>		
i	Power purchase through Exchanges		
	IEX DAM	16069782.5	53138812.71
	IE GDAM	7236285	31219409.23
	IEX (RTM)	18952787.5	64719028
II	Power transfer through DSM	8,931,611	-2,094,719
<b>Energy Sale through Exchanges</b>			
<b>I</b>	<b>April</b>		
	IEX (DAM)	54245262.5	596,376,383
	PXIL (TAM)	1523000	20,715,807
	GDAM	201000	2,695,216
	IEX ( TAM/ RTM)	83916573	917,018,298
<b>II</b>	<b>May</b>		
	IEX (DAM)	64310907.5	396846887.2
	PXIL (TAM)	3600000	12873040
	GDAM	1976900	15298218.75
	IEX ( TAM+ RTM)	67637870	477043787
<b>III</b>	<b>June</b>		
		Energy at Kerala periphery(units)	Amount (Rs )
	IEX (DAM)	30426975	267926328.8
	PXIL (TAM)	2174300	21548953.47
	GDAM	454545	5443696.49
	IEX ( TAM+ RTM)	38796112.5	399054166.7
	Total	71851932.5	693973145.5