

SR. NO 38/219

O.P. No. 53/2019

**APPDCL**

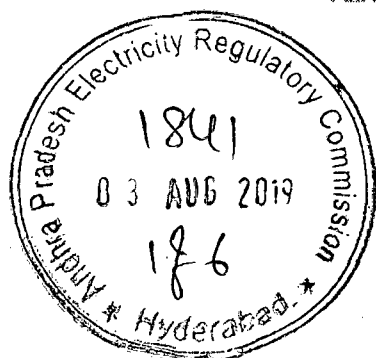
ANDHRA PRADESH  
POWER DEVELOPMENT COMPANY LIMITED  
(A subsidiary of APGENCO)

## Tariff Filing

# Sri Damodaram Sanjeevaiah Thermal Power Station (2 x 800 MW)

For the control period  
2019-2024

Plot No. 29, Road No. 1, Central Excise Colony, Andhra Lovola College Road, VIJAYAWADA-520008



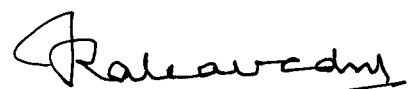
*Raleavedu*

CHIEF GENERAL MANAGER  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

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**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

01/10/20

**BEFORE THE  
ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION  
AT HYDERABAD**

**O.P. of 2019**

**In the matter of:**

*Determination of Tariff for the control period FY 2019-2024 under Section 62 of the Electricity Act, 2003 for the electricity supplied by APPDCL from SDSTPS to the Distribution Licensees in Andhra Pradesh.*

**And in the matter of:**

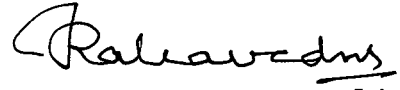
**Andhra Pradesh Power Development Company Limited,  
Vidyut Soudha, Vijayawada 520004.**

**Applicant**

**And**

1. **Southern Power Distribution Company of Andhra Pradesh Ltd.,  
Tiruchanoor Road, Kesvayana Gunta, Tirupati-517 501**
  2. **Eastern Power Distribution Company of Andhra Pradesh Ltd.,  
P&T Colony, Seethammadhara, Visakhapatnam 530020**
- Respondents**

**APPLICATION U/S 62 / 64 ELECTRICITY ACT 2003  
FOR DETERMINATION OF TARIFF FOR THE CONTROL PERIOD  
FY 2019-2024**

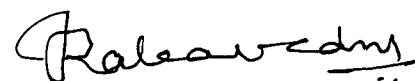


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Central Excise Colony, Vijayawada-8**

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### **1. Factual Background**

- 1.1 Andhra Pradesh Power Development Company Limited (hereinafter referred to as “APPDCL” or as the “**Applicant**”) was established as a company registered under the Companies Act, 1956, on 01/03/2006 as a Special Purpose Vehicle to establish and operate the **Sri Damodaram Sanjeevaiah Thermal Power Station (2 x 800 MW)** (hereinafter referred as “**SDSTPS**”) wherein 51% equity is held by APGENCO and the balance 49% equity is held by the State Government and the four Distribution Companies of the undivided Andhra Pradesh.
- 1.2 An Amended and Restated Power Purchase Agreement dated 24/08/2016 (hereinafter referred to as the “**PPA**”) was entered into between the Applicant APPDCL and the two distribution companies in Andhra Pradesh for 90% of the power generation capacity of the SDSTPS for a period of 25 years up to 23/08/2041.
- 1.3 The two distribution companies of Andhra Pradesh have filed O.P. No. 21 of 2016 for the consent of the Hon’ble Commission to the aforesaid PPA, and the same was approved in principle by the Hon’ble Commission by order dated 13.07.2018 subject to the parties reviewing certain clauses. The issues on such terms have been discussed between the parties, and on difference of opinion, the matter is pending before the Hon’ble Commission.
- 1.4 The Petitioner filed O.P. No. 47 of 2017 for the determination of tariff for the period from 05.02.2015 up to 31.03.2019. The Hon’ble Commission has passed an order dated 02.03.2019 determining the tariff. A review application has been filed by the Petitioner with respect to the



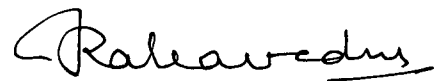
**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

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determination of capital cost, and the same is pending before the Hon'ble Commission.

**2. Scope of Present Application**

- 2.1 This application is for the determination of tariff for the electricity generated by APPDCL at the SDSTPS situated in Andhra Pradesh and supplied to the distribution licensees at the generating station bus within Andhra Pradesh for the control period of FY 2019-2024, i.e from 01.04.2019 to 31.03.2024.
- 2.2 The proposal comprises annual fixed costs / capacity charge, energy charges based on the operating norms, and certain terms and conditions of supply.
- 2.3 This application for determination of tariff is made in terms of the Andhra Pradesh Electricity Regulatory Commission (Terms and conditions for determination of tariff for supply of electricity by a generating company to a distribution licensee and purchase of electricity by distribution licensee) Regulation, 2008, being Regulation 1 of 2008, which is in force as the applicable Regulation of this Hon'ble Commission in terms of the adaptation Regulation notified by this Hon'ble Commission.



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## **PARAMETERS OF TARIFF DETERMINATION**

### **3. Return on Capital Employed (RoCE)**

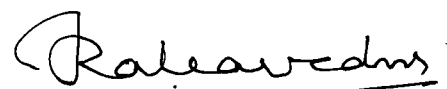
- 3.1 The station-wise RoCE are computed on the basis of Clause 12.1 of the Regulation as follows.
- 3.2 Working Capital is computed in accordance with Clause 12.4 of Regulation 1 of 2008 and the details are in Annexure A-1 hereto.
- 3.3 Debt-Equity Ratio (D/E) is taken as 70:30 considering Clause 10.13 of the Regulation and applied to the Capital Cost as allowed by the Commission in its order dated 02.03.2019 and considering also the additions sought in the review petition filed by the Petitioner.

Cost of Debt is taken as rate of 10.20% considering present interest rates charged by PFC and REC.

Return on Equity is taken as 15.5% considering the CERC Regulation for 2019-2024 as referred to in APERC Regulation 1/2008.

Accordingly, the Weighted Average Cost of Capital (WACC) is computed and the same is 11.8%, The rate of RoCE is on par with rate of RoCE ordered by Hon'ble Commission in O.P.No. 35/2018 for the control period 2019-24 for APGENCO.

- 3.4 The summary of the station-wise computation of RoCE is furnished at Annexure A-2.



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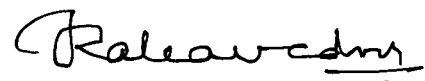
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#### 4. Depreciation

- 4.1 Depreciation is computed as per Company Act rates as approved by Hon'ble Commission in its order dated 02.03.2019 in O.P. No. 47/2017.
- 4.2 The summary of the proposed Depreciation is furnished at Annexure A-3.

#### 5. Operation & Maintenance Expenses

- 5.1 The O&M expenses provided in the Regulation was based upon the CERC 2004 Regulation as amended in 2006 for the control period 2004-2009. That methodology is not applicable or relevant for control period of FY 2019-2024. Clause 10 of the APERC Regulation 1 of 2008 provides for the application of further amendments to the CERC Regulation upon adoption by the Hon'ble Commission by special or general order. Moreover, there are no norms in APERC Regulation 1/2008 for power plants of such high capacity.
- 5.2 The CERC has subsequently issued revised Regulation in 2009 for the control period of FY 2009-2014 which, inter alia, provided also for allowing pay revision as the pay revision was due for Central PSUs during that period. The CERC has also issued a further revised Regulation for the control period 2019-2024.
- 5.3 It is therefore necessary that this Hon'ble Commission may consider and adopt the methodology of the CERC 2019 Regulation with respect to O&M expenses and year-on-year escalation thereof and allow such expenses on such basis.



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5.4 The pay scales of the employees were revised with effect from 01/04/2018. Further, the State Government has revised the HRA, CCA and Gratuity which has been adopted by the APGENCO also as the same allowances as applicable to State Government employees are payable as per the service regulations. The staff of APPDCL are substantially employees of APGENCO on deputation.

5.5 Accordingly, the O & M expenses are considered in this application on the following basis.

The per-MW expenses specified in the CERC 2019 Regulations plus an additional 20% thereof towards effect of pay revision is computed as the O&M expenses for FY 2019-20, being the 1<sup>st</sup> year of the control period 2019-2024.

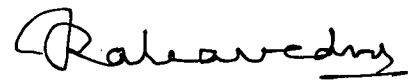
The O & M expenses for the 2<sup>nd</sup> and subsequent years of the control period are computed by escalating the 1<sup>st</sup> year O & M expenses by 3.51% year-on-year.

The Water Charges, Security Expenses and Capital Spares for thermal generating stations are claimed additionally.

5.6 The summary of the computation of O&M expenses as above are furnished at Annexure A-4.

## 6. Income Tax

6.1 The Income tax paid is to be allowed at actuals as an additional pass-through in terms of Clause 12.5 of the Regulation, and will be claimed on the basis of actual payment from time to time.



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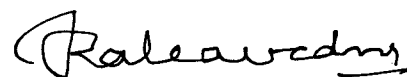
## **7. Energy Charges / Variable Costs**

- 7.1 The Variable costs for the energy supplied are to be computed, in the first instance for monthly billing, on the basis of the operating norms specified in the Regulation and in accordance with the provisions of Clause 13.1 of the Regulation considering the actual landed cost and the GCV of fuels during the preceding three months.

The variable costs claimed on a month to month basis as above shall be adjusted to account for variation in the actual landed cost of fuels and the actual GCV of the fuels in accordance with the provisions of Clause 13.1b of the Regulation.

Having regard to the order of the Hon'ble Commission in O.P. No. 35 of 2018 for APGENCO, the Hon'ble Commission may direct the licensees to admit up to 15% variation straightaway for payment; and if the variation is over 15% the variation may be limited to 15% for the purposes of payment subject to the scrutiny and approval of the Hon'ble Commission in respect of the variation exceeding 15%.

- 7.2 The benefits of super critical technology is realized only when a unit of the power station operates at a capacity of 660 MW or above. If the unit is operates below 660 MW, due to non-despatch and/or backing down (however within the limit provided in the PPA, the benefits of super critical technology will not be realized. The operational parameters when operating at above 660 MW (super critical parameters) and below 660 MW (sub-critical parameters) are summarized as follows :

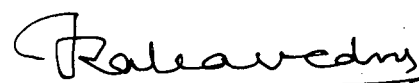


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| Parameter              | Sub Critical | Super Critical |
|------------------------|--------------|----------------|
| Station Heat Rate      | 2450         | 2302           |
| Aux. Power Consumption | 7.5 %        | 6.5 %          |
| Sp. Oil Consumption    | 2.0 ml/KWH   | 2.0 ml/KWH     |
| Availability           | 80 %         | 80 %           |

- 7.3 The Regulation 1 of 2008 has prescribed operating norms only for plants up to 500 MW. The operating norms as per the Regulation are considered applicable for sub-critical operation below 660 MW. For operation above 660MW, the operating norms would be those for super critical operation as above.
- 7.4 Moreover, when operating below 574 MW, the extra cost of additional secondary fuel oil required to sustain operation at such low levels would be extra at actuals.
- 7.5 Accordingly, the energy charges / variable cost would be computed as follows :-
- When operation of a unit is under a dispatch / schedule above 594 MW, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for super critical operation stated above; and
  - When operation of a unit is under a dispatch / schedule between 516 to 594 MW, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for sub-critical operation stated above; and



**CHIEF GENERAL MANAGER**  
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- (c) When operation of a unit is under a dispatch / schedule between below 516 till as low as technically feasible, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for sub-critical operation stated above, and in addition the extra cost of additional secondary fuel oil required to sustain operation at such low levels would be extra at actuals.
- 7.6 In the Hon'ble Commission's order dated 02.03.2019 in O.P. 47 of 2017, the Hon'ble Commission has approved the variable cost on the basis of super critical operation, leaving the issue of differential fixed cost open and to be agreed upon between the parties. The issue remains open, therefore, for this control period also.

## 8. Incentives

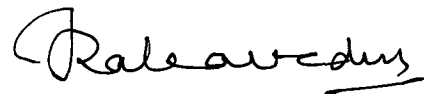
- 8.1 The incentives for generation beyond the Target 80% Plant Load Factor shall be claimed annually at the rates specified in the Regulation.

## 9. Proposed Generation Tariff

The Tariff Proposed by the Applicant is summarized as follows :-

### 9.1 Fixed charges :-

The year-wise Annual Fixed charges for the contracted capacity, being 90% of the total installed capacity is as follows:-



**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
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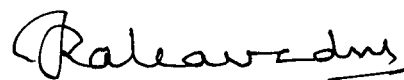
| Station | (MW) | Annual Fixed Cost – Rs crores |         |         |         |         |
|---------|------|-------------------------------|---------|---------|---------|---------|
|         |      | 2019-20                       | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
| SDSTPS  | 1440 | 1822.01                       | 1801.97 | 1781.19 | 1760.82 | 1740.91 |

The summary of the components of the fixed charges is at Annexure A-5.

## 9.2 Energy Charges / Variable Charges

Energy charges / variable cost would be computed as follows :-

- When operation of a unit is under a dispatch / schedule above 594 MW, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for super critical operation stated above; and
- When operation of a unit is under a dispatch / schedule between 516 to 594 MW, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for sub-critical operation stated above; and
- When operation of a unit is under a dispatch / schedule between below 516 till as low as technically feasible, the variable cost would be computed as per Regulation 1 of 2008 but with operating norms as for sub-critical operation stated above, and in addition the extra cost of additional secondary fuel oil required to sustain operation at such low levels would be extra at actuals.



**CHIEF GENERAL MANAGER**  
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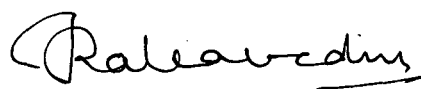
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Variable cost for 3 months immediately preceding the control period are as follows subject to adjustment for actual landed cost and GCV of fuels.

| <i>Station</i> | <i>Month</i> | <i>(Rate / Kwh)<br/>( Paise)</i> |
|----------------|--------------|----------------------------------|
| 2X800MW-SDSTPS | Jan-2019     | 284                              |
|                | Feb-2019     | 280                              |
|                | Mar-2019     | 283                              |

It is submitted that variable Cost proposed for the Units generated from 2X800MW-SDSTPS as **Rs. 2.85 per kWh** (Super Critical) & **Rs. 3.03 per kWh** (Sub Critical) with the following parameters.

| <b>Parameter</b>             | <b>Super Critical</b> | <b>Sub Critical</b> |
|------------------------------|-----------------------|---------------------|
| Station Heat Rate            | 2302 kcal/ kWh        | 2450 kcal/ kWh      |
| Aux. Power Consumption       | 6.5 %                 | 7.5 %               |
| Sp. Oil Consumption          | 2.0 ml/kWh            | 2.0 ml/kWh          |
| Availability                 | 80 %                  | 80 %                |
| Weighted Avg Cost of Coal    | Rs. 4,700 per MT      | Rs. 4,700 per MT    |
| Weighted Avg Cost of Oil     | Rs. 41,000 per kl     | Rs. 41,000 per kl   |
| GCV of Coal                  | 4,150 kcal/kg         | 4,150 kcal/kg       |
| GCV of Oil                   | 10,000 kcal/Ltr       | 10,000 kcal/Ltr     |
| <b>Variable Cost per kWh</b> | <b>Rs. 2.85</b>       | <b>Rs. 3.03</b>     |



**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

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### 9.3 Conditions

- (a) All taxes, duties, cess, fees payable to Government on the generation and/or supply of electricity and/or auxiliary consumption shall be extra and payable at actuals.
- (b) Revolving Letter of Credit to be opened by the beneficiary for an amount of one month's receivable, and thereupon the applicable rebate be allowed.
- (c) Delayed payment surcharge at 1.25% per month will be applicable.
- (d) All other terms and conditions as per the PPA will also be applicable.

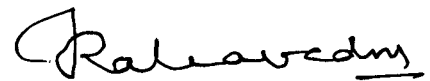
### 10. Payment of Application Fee :-

- 10.1 The Applicant is separately submitting a cheque for Rs 100 lakhs towards the fee for this application.

### 11. Prayer

- 11.1 For the above reasons and for such other and/or further reasons and grounds as may be urged at the time of hearing, the Applicant prays that the Hon'ble Commission may be pleased to –

- (a) Accept and take on record the Application for determination of tariff for control period 2019-2024 under sections 62/64 of Electricity Act 2003; and

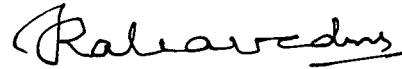


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A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

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- (b) Direct the Applicant to publish the application by notice as required by section 64, as per the draft annexed at Annexure A-6 to the Application, or in such other form as may be specified by the Hon'ble Commission, in two English and two Telugu daily news papers as may be specified by the Hon'ble Commission; and
- (c) Consider and adopt the normative Operation & Maintenance Expenses and year-on-year escalation thereof in respect of generating stations as requested; and
- (d) Determine the tariff for the control period 2019-2024, i.e. from 01.04.2019 to 31.03.2024, for the supply of electricity generated by the Applicant from SDSTPS to the Respondent Distribution Licensees at the rates proposed by the Applicant and/or as otherwise determined by the Hon'ble Commission in accordance with law in the facts and circumstances of the case.

Date: 02-08-2019  
At Vijayawada



Chief General Manager  
APPDCL

*Signature of the Applicant.*

**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

**BEFORE THE  
ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION  
AT HYDERABAD**

O.P.

of 2019

**In the matter of:**

*Determination of Tariff for the control period 2019-2024 under Section 62 of the Electricity Act, 2003 for the electricity supplied by APPDCL to Distribution Licensees in Andhra Pradesh.*

**And in the matter of:****Andhra Pradesh Power Development Company Limited**

Applicant

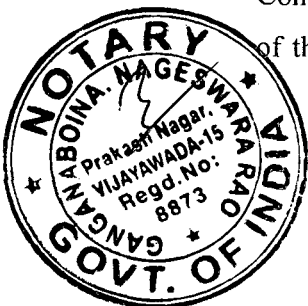
**And**1. **Southern Power Distribution Company of Andhra Pradesh Ltd.**2. **Eastern Power Distribution Company of Andhra Pradesh Ltd.**

Respondents

**AFFIDAVIT VERIFYING THE APPLICATION**

I, J. Raghavendra Rao, son of J. Satyamamba, working for gain at Andhra Pradesh Power Development Company Ltd., do solemnly affirm and say as follows:

- a) I am the Chief General Manager of Andhra Pradesh Power Development Company Ltd, being a company in the business of generating electricity in Andhra Pradesh. I am competent and duly authorized by Andhra Pradesh Power Development Company Ltd. to affirm, swear, execute and file this affidavit in the present proceedings.
- b) I have read and understood the contents of the accompanying filing of proposals for determination of tariff for supply of electricity by Andhra Pradesh Power Development Company Ltd. for the control period 2019-2024. The statements made in the paragraphs of the accompanying application now shown to me are true to my knowledge derived



*Raghavendra*

**CHIEF GENERAL MANAGER  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8**

01/10/20



from the official records made available to me and are based on information and advice received which I believe to be true and correct.

Solemnly affirmed before me at Vijayawada  
on this 02 August 2019

*Rahavcdms*

Deponent  
**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

Notary



VERIFICATION:

I, the above-named Deponent, solemnly affirm, at Vijayawada on this 2<sup>nd</sup> August 2019, that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

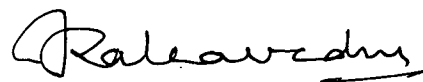
*G. Rao* 2/8/19  
**GANANABOINA. NAGESWARA RAO**  
B.Com: B.L.  
**Advocate & Notary**  
# 77-70-8, A.V.S. Reddy Road,  
Prakashnagar, VIJAYAWADA-15. A.P. India

*Rahavcdms*

Deponent  
**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

**Annexure A-1****WORKING CAPITAL****(On Annual Basis)***(All the Rupees in Crores)*

| S.No. | Description                              | 2019-20        | 2020-21        | 2021-22        | 2022-23        | 2023-24        |
|-------|--|----------------|----------------|----------------|----------------|----------------|
| 1     | Cost of Coal stock for 1 month           | 273.49         | 273.49         | 273.49         | 273.49         | 273.49         |
| 2     | Cost of Oil for 2 months                 | 4.30           | 4.30           | 4.30           | 4.30           | 4.30           |
| 4     | O&M Expenses for 1 month                 | 29.17          | 30.19          | 31.25          | 32.35          | 33.48          |
| 5     | Maintenance spares-1% of historical cost | 125.89         | 130.92         | 136.16         | 141.61         | 147.27         |
| 6     | Sales receivables 2 months               | 851.23         | 859.46         | 856.67         | 853.53         | 850.48         |
| 7     | Total Working Capital                    | 1284.07        | 1298.36        | 1301.87        | 1305.27        | 1309.03        |
| 8     | <b>90% of Total Working Capital</b>      | <b>1155.67</b> | <b>1168.53</b> | <b>1171.68</b> | <b>1174.75</b> | <b>1178.12</b> |



**CHIEF GENERAL MANAGER**  
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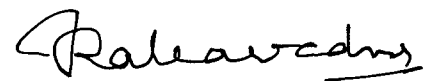
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Annexure A-2**RETURN ON CAPITAL EMPLOYED (RoCE)***RoCE Amount (Rs. In Cr.)*

| S.No. | Description                   | 2019-20         | 2020-21         | 2021-22         | 2022-23         | 2023-24         |
|-------|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1     | Original Capital Cost         | 10761.4         | 10761.4         | 10761.4         | 10761.4         | 10761.4         |
| 2     | Additional Capitalisation     | 554.33          | 554.33          | 554.33          | 554.33          | 554.33          |
| 3     | Less accumulated Depreciation | 1148.49         | 1459.67         | 1770.86         | 2082.04         | 2393.23         |
| 4     | Working Capital               | 1284.07         | 1298.36         | 1301.87         | 1305.27         | 1309.03         |
| 5     | <b>Total</b>                  | <b>11451.31</b> | <b>11154.42</b> | <b>10846.74</b> | <b>10538.96</b> | <b>10231.53</b> |
| 6     | Rate of RoCE                  | 11.80%          | 11.80%          | 11.80%          | 11.80%          | 11.80%          |
| 7     | <i>RoCE (Annual Basis)</i>    | <b>1351.25</b>  | <b>1316.22</b>  | <b>1279.92</b>  | <b>1243.60</b>  | <b>1207.32</b>  |
| 8     | <i>ROCE Claimed</i>           | <b>1351.25</b>  | <b>1316.22</b>  | <b>1279.92</b>  | <b>1243.60</b>  | <b>1207.32</b>  |
| 9     | <b>90% of ROCE Claimed</b>    | <b>1216.13</b>  | <b>1184.60</b>  | <b>1151.92</b>  | <b>1119.24</b>  | <b>1086.59</b>  |

Rates of RoCE

| Year    | Debt | Equity | Rate of Interest | Return on equity | WACC |
|---------|------|--------|------------------|------------------|------|
| 2019-20 | 70%  | 30%    | 10.2%            | 15.5%            | 11.8 |
| 2020-21 | 70%  | 30%    | 10.2%            | 15.5%            | 11.8 |
| 2021-22 | 70%  | 30%    | 10.2%            | 15.5%            | 11.8 |
| 2022-23 | 70%  | 30%    | 10.2%            | 15.5%            | 11.8 |
| 2023-24 | 70%  | 30%    | 10.2%            | 15.5%            | 11.8 |

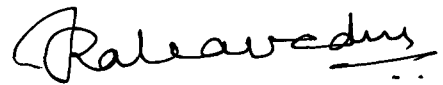


**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

01/10/20

Annexure A-3**DEPRECIATION**

| <i>Amount (Rs. in Cr.)</i> |                             |         |         |         |         |         |
|----------------------------|-----------------------------|---------|---------|---------|---------|---------|
| SL. No.                    | Particulars                 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
| 1                          | Depreciation                | 311.18  | 311.18  | 311.18  | 311.18  | 311.18  |
| 2                          | 90% of Depreciation Claimed | 280.07  | 280.07  | 280.07  | 280.07  | 280.07  |

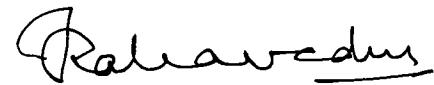


**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

01/10/20

**Annexure A-4**  
**OPERATION & MAINTENANCE CHARGES**

| SL. No. | Description  | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|---------|--|---------|---------|---------|---------|---------|
| 1       | Capacity   | 800 MW  | 1600 MW | 1600 MW | 1600 MW | 1600 MW |
| 2       | O&M Charges/<br>MW<br>(Rs Lakhs)                         | 21.88   | 22.64   | 23.44   | 24.26   | 25.11   |
| 3       | Total O&M<br>(Rs Crores)                                 | 350.02  | 362.30  | 375.02  | 388.18  | 401.81  |
| 4       | Water Charges plus<br>Security Charges                   | 12.00   | 12.48   | 12.98   | 13.50   | 14.04   |
| 5       | Total O&M<br>Expense<br>including<br>water &<br>Security | 362.02  | 374.78  | 388.00  | 401.68  | 415.84  |
| 6       | 90% of<br>Total O&M<br>Charges<br>(Rs Crores)            | 325.81  | 337.30  | 349.20  | 361.51  | 374.26  |

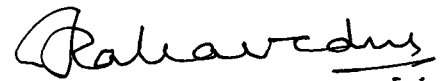


**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

01/10/20

Annexure A-5**ANNUAL FIXED CHARGES***Amount (Rs. in Cr.)*

| Sl. No. | Description                              | 2019-20        | 2020-21        | 2021-22        | 2022-23        | 2023-24        |
|---------|--|----------------|----------------|----------------|----------------|----------------|
| 1       | RoCE                                     | 1351.25        | 1316.22        | 1279.92        | 1243.60        | 1207.32        |
| 2       | Depreciation                             | 311.18         | 311.18         | 311.18         | 311.18         | 311.18         |
| 3       | Annual O&M expenses                      | 362.02         | 374.78         | 388.00         | 401.68         | 415.84         |
| 4       | <i>Total Annual Fixed Charges</i>        | 2024.46        | 2002.19        | 1979.10        | 1956.46        | 1934.35        |
| 5       | <b>90% of Total Annual Fixed Charges</b> | <b>1822.01</b> | <b>1801.97</b> | <b>1781.19</b> | <b>1760.82</b> | <b>1740.91</b> |



**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

01/10/20

**Annexure A-6**

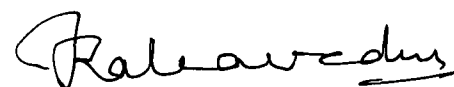
**BEFORE THE  
ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION  
4th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD**

**PUBLIC NOTICE**

Notice is hereby given to all that the **Andhra Pradesh Power Development Company Ltd. ("APPDCL")**, a company in the business of generation of electricity, has submitted an Application for Determination of Tariff for supply of electricity generated at the **Sri Damodaram Sanjeevaiah Thermal Power Station (2 x 800 MW) ("SDSTPS")** to the Distribution Licensees of Andhra Pradesh for the control period 2019-2024 which has been taken on record by the Hon'ble Commission in OP No \_\_\_\_ of 2019.

A copy of the Application together with all annexures thereto is available on the website of the APERC at [www.aperc.gov.in](http://www.aperc.gov.in). Copies of the Application may be obtained on e-mail or written application from the Chief General Manager, APPDCL, Plot No: 29, Road No. 1, Central Excise Colony, Andhra Loyola College Road, Vijayawada- 520008 by e-mail free of cost or as hard copy on payment of the cost of photo-copying and postage if any. The Application may also be inspected at the aforesaid office.

Objections or suggestions, if any, on tariffs proposed by APPDCL, together with supporting material may be filed with the Secretary, APERC, at the address mentioned above, in person or through Registered Post, so as to reach him on or before \_\_\_\_\_, along with proof of service of the same on Chief General Manager, APPDCL, Plot No:29, Road No#1, Central Excise Colony, Andhra Loyola College Road, Vijayawada – 520 008. The objections/suggestions should be filed duly signed and should carry full name and postal address of the person(s) sending the objections/suggestions. If the objections are filed on behalf of any organization or any category of consumers, it should be so mentioned and if the objector also wants to be heard in person, it may also be



**CHIEF GENERAL MANAGER  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8**

**01/10/20**

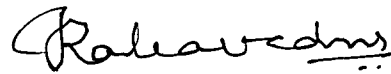
specifically mentioned so.

After perusing the objections/suggestions received, the Hon'ble Commission may notify the dates for hearing as it considers appropriate.

**BY ORDER OF THE COMMISSION**

**CHIEF GENERAL MANAGER  
APPDCL**

Vijayawada, (Date)



**CHIEF GENERAL MANAGER  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8**

01/10/20



Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**

Form-1

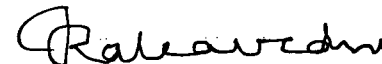
Name of the Power Station: **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

State: **ANDHRA PRADESH,** District: **SPSR Nellore**

| S.No. | Particulars                    | 2019-20        | 2020-21        | 2021-22        | 2022-23        | 2023-24        |
|-------|--------------------------------|----------------|----------------|----------------|----------------|----------------|
| 1     | 2                              | 3              | 4              | 5              | 6              | 7              |
| 1.1   | RoCE                           | 1351.25        | 1316.22        | 1279.92        | 1243.60        | 1207.32        |
| 1.2   | Depreciation                   | 311.18         | 311.18         | 311.18         | 311.18         | 311.18         |
| 1.3   | Annual O&M expenses            | 362.02         | 374.78         | 388.00         | 401.68         | 415.84         |
| 1.4   | Total Annual Fixed Charges     | 2024.46        | 2002.19        | 1979.10        | 1956.46        | 1934.35        |
| 1.5   | 90% Total Annual Fixed Charges | <b>1822.01</b> | <b>1801.97</b> | <b>1781.19</b> | <b>1760.82</b> | <b>1740.91</b> |

## 2. Calculation of Rate of Energy Charges (Rs./kWh)

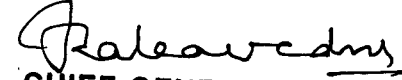
| Parameter              | Sub Critical<br>660 MW below | Super Critical<br>660MW and above |
|------------------------|------------------------------|-----------------------------------|
| ( Rate / kWh) ( Paise) | <b>303</b>                   | <b>285</b>                        |
| Station Heat Rate      | 2450                         | 2302                              |
| Aux. Power Consumption | 7.5 %                        | 6.5 %                             |
| Sp. Oil Consumption    | 2.0 ml/KWH                   | 2.0 ml/KWH                        |
| Availability           | 80 %                         | 80 %                              |

  
**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

Plant Characteristics

Form-2

|  |  |   |                 |
|--|--|---|-----------------|
| Name of the Company                                    | ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED   |   |                 |
| Name of the Power Station                              | 2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)   |   |                 |
| Basic characteristics of the plant <sup>1</sup>        | Coal based plant using super critical technology   |   |                 |
| Special Features of the Plant                          |  |   |                 |
| Site Specific Features <sup>2</sup>                    | Coastal based power plant using Sea water as raw water   |   |                 |
| Special Technological Features <sup>3</sup>            | The steam generator will be sliding pressure supercritical, once-through type, utilizing a Tangential Firing System for NOx control. Boiler is a single reheat, variable pressure operation, with balanced draft furnace conditions. The unit is capable of firing wide range of pulverized coals as main fuel |   |                 |
| Environmental Regulation related features <sup>4</sup> | The high efficiency electrostatic precipitators having collection efficiency of 99.89% will limit the outlet dust emission to 50 mg/Nm <sup>3</sup> at ESP outlet with one field out of service while the boiler is operating at its BMCR  |   |                 |
| Any other special features                             | boilers have demonstrated low NOx production   |   |                 |
| Fuel Details <sup>5</sup>                              | Primary Fuel   | Secondary Fuel  | Alternate Fuels |
|  | Coal   | HFO & LDO during start ups and for unit stabilisation |                 |
| Details  | Module number or Unit number   |   |                 |
| (1)  | (2)  | (3)   |                 |
| 2X800MW-SDSTPS   | Unit-1   | Unit-2  |                 |
| Installed Capacity (IC)                                | 800 MW   | 800 MW  |                 |
| Date of Commercial Operation (COD)                     | 05.02.2015   | 24.08.2015  |                 |
| Type of cooling system <sup>6</sup>                    | sea water cooling  |   |                 |
| Type of Boiler Feed Pump <sup>7</sup>                  | 2Nos Turbo driven Boiler Feed pumps & 1No Motor Driven Boiler Feed Pump  |   |                 |

  
**CHIEF GENERAL MANAGER**  
 A.P. Power Development Company Ltd.  
 Central Excise Colony, Vijayawada-8

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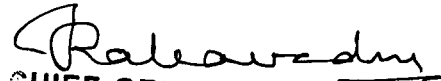
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Normative parameters considered for tariff computations

Form-3

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

| Particulars                                    | Unit        | As per Filings<br>2019-24 | As per APERC<br>Norms (Sub Critical) | As per APERC<br>Norms (Super<br>Critical) |
|--|-------------|---------------------------|--------------------------------------|---|
| (1)  |             | (2)                       | (3)                                  | (4)                                       |
| Rate of Return on Equity                       | %           | 11.8                      | 11.8                                 | 11.8                                      |
| Target Availability                            | %           | 80.00                     | 80.00%                               | 80.00%                                    |
| Target PLF                                     | %           | 80.00%                    | 80.00%                               | 80.00%                                    |
| Auxiliary Energy Consumption                   | %           | 6.5                       | 6.5                                  | 6.5                                       |
| Gross Station Heat Rate                        | kCal/kWh    | 2302                      | 2450                                 | 2302                                      |
| Specific Fuel Oil Consumption                  | ml/kWh      | 2                         | 2                                    | 2   |
| O&M Cost                                       | Rs.Lakh/MW  |                           |                                      |   |
| Cost of Coal/Lignite for WC <sup>1</sup>       | Rs/MT       |                           |                                      |   |
| Cost of Secondary Fuel Oil for WC <sup>1</sup> | Rs/ KL      |                           |                                      |   |
| Fuel Cost for WC <sup>2</sup>                  | in Months   | 2 Months                  | 2 Months                             | 2 Months                                  |
| Liquid Fuel Stock for WC <sup>2</sup>          | in Months   |                           |                                      |   |
| O & M Expenses for WC                          | in Months   | One Month                 | One Month                            | One Month                                 |
| Maintenance Spares for WC                      | %           | 1.0                       | 1.0                                  | 1.0                                       |
| Receivables for WC                             | in Months   | 2 Months                  | 2 Months                             | 2 Months                                  |
| Prime lending Rate as on                       | %           | 11.8                      | 11.8                                 | 11.8                                      |
| Incentive Rate                                 | Paise / kWh | 25 Paise                  | 2 Months                             | 2 Months                                  |

  
**CHIEF GENERAL MANAGER**  
 A.P. Power Development Company Ltd.  
 Central Excise Colony, Vijayawada-8

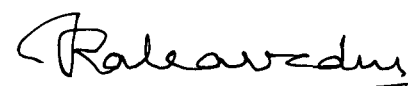
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**PART-I FORM-5**

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**

Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

|   |  |
|---|--|
| Capital Cost as admitted by APERC                                     | Rs. 10761.40 Crs                                     |
| Capital cost admitted as on_____                                      | 31.03.2019   |
| (Give reference of the relevant APERC Order with Petition-No. & Date) | O.P.No:47/2017,& I.A. No: 28/2017,<br>Dt: 02.03.2019 |
| Foreign Component, if any (In Million US \$ or the relevant Currency) | -  |
| Domestic Component (Rs. Cr.)  | -  |
| Foreign Exchange rate considered for the admitted                     | -  |
| <b>Total Capital cost admitted (Rs. Cr)</b>                           | Rs. 10761.40 Crs                                     |



PETITIONER  
**CHIEF GENERAL MANAGER**  
 A.P. Power Development Company Ltd.  
 Central Excise Colony, Vijayawada-8

Details of Project Specific Loans

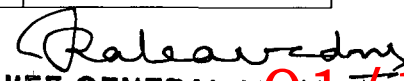
Form-7

Name of the Company

ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED

Name of the Power Station 2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)

| Particulars   | Package1   | Package2      |
|---|------------|---------------|
| 1   | 2          | 3             |
| Source of Loan <sup>1</sup>                                   | PFC        | KFW           |
| Currency <sup>2</sup>   | INR(Lakh)  | Million EUROS |
| Amount of Loan sanctioned                                     | 9345.72    | 281.06        |
| Amount of Gross Loan drawn upto 31.03.2019/COD<br>3,4,5,13,15 | 9345.72    | 281.06        |
| Interest Type <sup>6</sup>                                    | Floating   | Fixed         |
| Fixed Interest Rate, if applicable                            |            |               |
| Base Rate, if Floating Interest <sup>7</sup>                  |            |               |
| Margin, if Floating Interest <sup>8</sup>                     | Yes/No     | Yes/No        |
| Are there any Caps/Floor <sup>9</sup>                         |            |               |
| If above is yes,specify caps/floor                            |            |               |
| Moratorium Period <sup>10</sup>                               | 89 months  | 30 months     |
| Moratorium effective from                                     | 29-08-2008 | 30-11-2009    |
| Repayment Period <sup>11</sup>                                | 15 Years   | 33 Years      |
| Repayment effective from                                      | 15.01.2016 | 30.06.2012    |
| Repayment Frequency <sup>12</sup>                             | Quarterly  | Half yearly   |
| Repayment Instalment <sup>13,14</sup>                         | 14623      | 159.52        |
| Base Exchange Rate <sup>16</sup>                              |            | 80.0280       |

  
**CHIEF GENERAL MANAGER**  
 A.P. Power Development Company Ltd.  
 Central Excise Colony, Vijaya Vittala

Statement of Depreciation

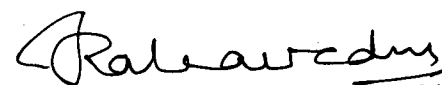
Form-11

Name of the Company

ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED

Name of the Power Station 2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)

| SL.No. | Particulars               | Amount (Rs. In Cr.) |         |         |         |         |
|--------|---------------------------|---------------------|---------|---------|---------|---------|
|        |                           | 2019-20             | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
| 1      | Depreciation              | 311.18              | 311.18  | 311.18  | 311.18  | 311.18  |
|        | Accumulative Depreciation | 1148.49             | 1459.67 | 1770.86 | 2082.04 | 2393.23 |



**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

Calculation of Weighted Average Rate of Interest on Actual Loans

Form-13

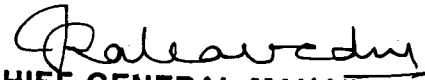
Name of the Company

**ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**

Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

(Rupees in lakhs)

| Sl.No. | Particulars                                       | Existing | 1st year | 2nd year | 3rd year | 4th year | 5th Year |
|--------|---|----------|----------|----------|----------|----------|----------|
|        | 2   | 2018-19  | 2019-20  | 2020-21  | 2021-22  | 2022-23  | 2023-24  |
|        | <b>PFC</b>  |          |          |          |          |          |          |
| 1      | Gross loan - Opening                              | 928337   | 934572   | 934572   | 934572   | 934572   | 934572   |
| 2      | Cumulative repayments of Loans upto previous year | 140661   | 173181   | 205701   | 238221   | 270741   | 303261   |
| 3      | Net loan - Opening                                | 787676   | 761391   | 728871   | 696351   | 663831   | 631311   |
| 4      | Add: Drawal(s) during the Year                    | 6235     | 0        | 0        |          |          |          |
| 5      | Less: Repayment (s) of Loans during the year      | 32520    | 32520    | 32520    | 32520    | 32520    | 32520    |
| 6      | Net loan - Closing                                | 761391   | 728871   | 696351   | 663831   | 631311   | 598791   |
| 7      | Average Net Loan                                  | 761391   | 728871   | 696351   | 663831   | 631311   | 598791   |
| 8      | Rate of Interest on Loan                          |          |          |          |          |          |          |
| 9      | Interest on loan                                  | 10.20%   | 10.20%   | 10.20%   | 10.20%   | 10.20%   | 10.20%   |
| 10     |   |          |          |          |          |          |          |
| 11     | <b>KFW( Foreign currency Loan)</b>                |          |          |          |          |          |          |
| 12     | Gross loan - Opening                              | 218746   | 218746   | 218746   | 218746   | 218746   | 218746   |
| 13     | Cumulative repayments of Loans upto previous year | 124256   | 131050   | 134523   | 137996   | 141469   | 144942   |
| 14     | Net loan - Opening                                | 94490    | 87696    | 84223    | 80750    | 77277    | 73804    |
| 15     | Add: Drawal(s) during the Year                    |          |          |          |          |          |          |
| 16     | Less: Repayment (s) of Loans during the year      | 6794     | 3473     | 3473     | 3473     | 3473     | 3473     |
| 17     | Net loan - Closing                                | 87696    | 84223    | 80750    | 77277    | 73804    | 70331    |
| 18     | Average Net Loan                                  | 87696    | 84223    | 80750    | 77277    | 73804    | 70331    |
| 19     | Rate of Interest on Loan                          |          |          |          |          |          |          |
| 20     | Interest on loan                                  | 696      | 696      | 696      | 696      | 696      | 696      |

  
**CHIEF GENERAL MANAGER**  
 A.P. Power Development Company Ltd.  
 Central Excise Colony, Vijayawada-8  
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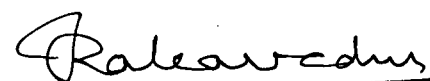
Calculation of Return on Capital Employed

Form-13A

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

(Amount in Rs. Crores.)

| S.No. | Description         | 2019-20  | 2020-21  | 2021-22  | 2022-23  | 2023-24  |
|-------|---------------------|----------|----------|----------|----------|----------|
| 1     | WACC                | 11451.31 | 11154.42 | 10846.74 | 10538.96 | 10231.53 |
| 2     | Rate of RoCE        | 11.80%   | 11.80%   | 11.80%   | 11.80%   | 11.80%   |
| 3     | RoCE (Annual Basis) | 1351.25  | 1316.22  | 1279.92  | 1243.60  | 1207.32  |



**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
 Central Excise Colony, Vijayawada-8



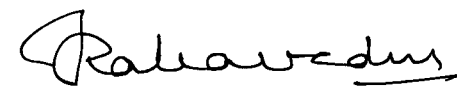
Working Capital

Form-14

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

(Amount in Rs. in Crores.)

| S.No. | Description                              | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|-------|--|---------|---------|---------|---------|---------|
| 1     | Cost of Coal stock for 1 month           | 273.49  | 273.49  | 273.49  | 273.49  | 273.49  |
| 2     | Cost of Oil for 2 months                 | 4.30    | 4.30    | 4.30    | 4.30    | 4.30    |
| 3     | O&M Expenses for 1 month                 | 29.17   | 30.19   | 31.25   | 32.35   | 33.48   |
| 4     | Maintenance spares-1% of historical cost | 125.89  | 130.92  | 136.16  | 141.61  | 147.27  |
| 5     | Sales receivables 2 months               | 851.23  | 859.46  | 856.67  | 853.53  | 850.48  |
| 6     | Total Working Capital                    | 1284.07 | 1298.36 | 1301.87 | 1305.27 | 1309.03 |



**CHIEF GENERAL MANAGER**  
**A.P. Power Development Company Ltd.**  
**Central Excise Colony, Vijayawada-8**

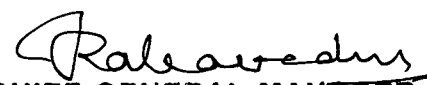
Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Form-18

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

(Amount in Rs.)

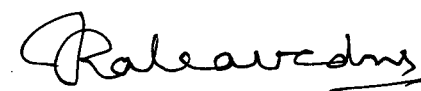
| Sl. No. | Month  | Unit  | For proceeding 3rd Month (Jan-19) | For proceeding 3rd Month (Feb-19) | For proceeding 3rd Month (March-19) |
|---------|--|-------|-----------------------------------|-----------------------------------|-------------------------------------|
| 1       | Quantity of Coal /lignite supplied by Coal /Lignite Company            | (MMT) | 427964.24                         | 228014                            | 390784.89                           |
| 2       | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company     | (MMT) | -                                 | -                                 | -                                   |
| 3       | Coal supplied by Coal/Lignite Company (1+2)                            | (MMT) | -                                 | -                                 | -                                   |
| 4       | Normative Transit & Handling Losses (For coal /Lignite based Projects) | (MMT) | -                                 | -                                 | -                                   |
| 5       | Net coal / Lignite Supplied (3-4)                                      | (MMT) | 427964.24                         | 228014                            | 390784.89                           |
| 6       | Amount charged by the Coal / Lignite Company                           | (Rs.) | 866106523                         | 622800171                         | 1190951309                          |
| 7       | Adjustment (+/-) in amount charged made by Coal/Lignite Company        | (Rs.) | 0                                 | 0                                 | 0                                   |
| 8       | Total amount charged (6+7)   | (Rs.) | 866106523                         | 622800171                         | 1190951309                          |

  
**CHIEF GENERAL MANAGER**  
A.P. Power Development Company Ltd.  
Central Excise Colony, Vijayawada-8

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|    |  |         |             |             |             |
|----|--|---------|-------------|-------------|-------------|
| 9  | Transportation charges by rail/shop/road transport                             | (Rs.)   | 1139579799  | 429275831   | 672640677   |
| 10 | Adjustment (+/-) in amount charged made by railways/Transport Company          | (Rs.)   | 0           | 0           | 0           |
| 11 | Demurrage Charges, if any  | (Rs.)   | 0           | 0           | 0           |
| 12 | Cost of diesel in transporting coal through MGR system, if applicable          | (Rs.)   | 0           | 0           | 0           |
| 13 | Total Transportation Charges (9+/-10-11+12)                                    | (Rs.)   | 1139579799  | 429275831   | 672640677   |
| 14 | Total amount Charged for coal/lignite supplied including Transportation (8+13) | (Rs.)   | 2005686322  | 1052076001  | 1863591986  |
| 15 | Weighted Average Cost of coal  | Rs./MT  | <b>4687</b> | <b>4614</b> | <b>4769</b> |
| 16 | Weighted average GCV of coal/lignite as fired (kCal/kg)(Bunker front sample)   | kcal/kg | <b>4166</b> | <b>4188</b> | <b>4208</b> |



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**Central Excise Colony, Vijayawada-8**

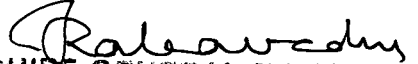
Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Form-18

Name of the Company **ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED**Name of the Power Station **2X800 MW- Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS)**

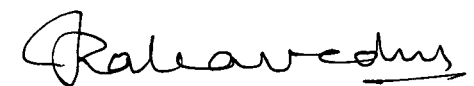
(Amount in Rs.)

| S.NO | DESCRIPTION  | Jan-19      |             | Feb-19     |            | Mar-19   |            |
|------|--|-------------|-------------|------------|------------|----------|------------|
|      |  | MT          | LTS         | MT         | LTS        | MT       | LTS        |
|      |  | HFO         | HSD         | HFO        | HSD        | HFO      | HSD        |
| 1    | QTY OF OIL SUPPLIED BY OIL CO                        | 2004.45     | 451         | 2152.182   | 349        | 1796.3   | 286        |
| 2    | ADJUSTMENTS(+,-),IF ANY                              |             |             | 0          | 0          |          |            |
| 3    | OIL SUPPLIED BY OIL CO. INCLUSIVE OF OPENING STOCK   |             |             | 0          | 0          |          |            |
| 4    | NORMATIVE TRANSIT & HANDLING LOSSES                  |             |             | 0          | 0          |          |            |
| 5    | NET OIL SUPPLIED INCLUSIVE OF OP STOCK               | 2004.45     | 451         | 2152.182   | 349        | 1796.3   | 286        |
| 6    | AMOUNT CHARGED BY OIL CO.INCLUSIVE OF OP STOCK VALUE | 82083531.35 | 22865867.67 | 85691712.5 | 17226158.2 | 74559501 | 14046681.1 |
| 7    | ADJUSTMENTS(+,-),IF ANY                              | 0           |             | 0          |            |          |            |
| 8    | TOTAL AMOUNT CHARGEDE INCLUSIVE OP.STOCK             | 82083531.35 | 22865867.67 | 85691712.5 | 17226158.2 | 74559501 | 14046681.1 |
| 9    | TRANSPORTATION CHARGES BY RAIL/SHIP ETC              | 0           |             | 0          |            |          |            |
| 10   | ADJUSTMENTS(+,-),IF ANY                              | 0           |             | 0          |            |          |            |
| 11   | DEMURAGES CHARGES IF ANY                             | 0           |             | 0          |            |          |            |
| 12   | COST DIESEL IN TRANS.                                | 0           |             | 0          |            |          |            |
| 13   | TOTAL TRANSPORTATION CHARGES                         | 82083531.35 | 22865867.67 | 85691712.5 | 17226158.2 | 74559501 | 14046681.1 |

  
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|     |   |             |             |            |            |          |            |
|-----|---|-------------|-------------|------------|------------|----------|------------|
| 13A | ORS   | 0           |             | 0          |            |          |            |
| 14  | TOTAL AMOUNT CHARGED FOR OIL                            | 82083531.35 | 22865867.67 | 85691712.5 | 17226158.2 | 74559501 | 14046681.1 |
| 15  | LANDED COST OF OIL                                      | 82083531.35 | 22865867.67 | 85691712.5 | 17226158.2 | 74559501 | 14046681.1 |
| 16  | BLENDING RATIO  |             |             |            |            |          |            |
| 17  | WEIGHTED AVG.COST OF OIL                                | 40956.65    | 50700.37    | 39816.202  | 49358.62   | 41507.27 | 49114.27   |
| 18  | GCV OF HFO OIL AS PER BILL OF OIL COMPANY               |             |             |            |            |          |            |
| 19  | GCV OF HSD AS PER BILL OF OIL COMPANY                   |             |             |            |            |          |            |
| 20  | WEIGHTED AVG. GCV OF OIL AS BILLED (AS PER TEST REPORT) |             |             |            |            |          |            |
| 21  | GCV OF HFO OIL AS RECIVED AT STATION                    | 9996        | 10258       | 10004      | 10278      | 9500     | 10281      |
| 22  | GCV OF HSD AS RECEIVED AT STATION                       | 9996        | 10258       | 10004      | 10278      | 9500     | 10281      |
| 23  | WEIGHTED AVG. GCV OF OIL AS RECEIVED AT STATION         |             |             |            |            |          |            |

  
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