

# **TARIFF ORDER**

## **Determination of Tariff for FY 2012-13 And Review for FY 2011-12**

**For**

**Puducherry Power Corporation Limited (PPCL)  
Gas Power Station (32.5 MW)**



## **JOINT ELECTRICITY REGULATORY COMMISSION**

**For the State of Goa and Union Territories**

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13<sup>th</sup> April, 2012

## Contents

1. INTRODUCTION .....	5
1.1 JERC Formation .....	5
1.2 Puducherry Power Corporation Limited .....	6
1.3 Filing of Petition .....	6
1.4 Acceptance of Petition .....	7
1.5 Interaction with the petitioner .....	7
1.6 Public Hearing Process .....	8
2. Summary of Tariff Petition filed by PPCL for FY 2012-13 .....	10
2.1 Introduction .....	10
2.2 Summary of fixed and variable charges projected by PPCL for FY 2012-13 .....	10
2.3 Prayer .....	11
3. Brief Summary of objections raised, response from PPCL and Commission's Comments .....	12
3.1 Introduction .....	12
3.2 CAPITAL COST .....	12
3.3 AUXILIARY POWER CONSUMPTION (APC) .....	14
3.4 GROSS HEAT RATE (GHR) .....	16
3.5 NORMATIVE ANNUAL PLANT AVAILABILITY FACTOR (NAPAF) .....	17
3.6 DEPRECIATION .....	18
3.7 Commission's views .....	20
4. Tariff Determination for FY 2012-13 .....	22
4.1 About PPCL Gas Power Station .....	22
4.2 Regulations .....	22
4.3 Operational Parameters .....	22
4.3.1 Normative Annual Plant Availability Factor (NAPAF) .....	22
4.3.2 Auxiliary Power Consumption (APC) .....	23
4.3.3 Gross Station Heat Rate .....	24
4.3.4 Performance Parameters Approved for the year FY 2012-13 .....	26
4.4 Variable Cost Parameters .....	26
4.5 Energy (Variable) Charges .....	30
4.6 Capacity Charges/ Fixed Costs for the year FY 2012-13 .....	30
4.7 Energy (Variable) Charge .....	38
4.8 Capacity Charges (Fixed Costs) and other charges as approved by the Commission .....	39
5. Review for FY 2011-12 .....	40
5.1 Background and Review .....	40
6. Directives .....	43
6.1 Metering of the power consumption of electric gas booster compressor .....	43
7. Conclusion .....	44

## List of Tables

Table 1: List of Correspondence with PPCL .....	8
Table 2: Details of public notice published by PPCL .....	8
Table 3: Details of public notice published by Commission .....	9
Table 4: Capacity and Variable Charges proposed by PPCL for FY 2012-13 .....	10
Table 5: Details of the PPCL Gas Power Station.....	22
Table 6: Station Heat Rate for the earlier years .....	25
Table 7: Performance Parameters approved for the year FY 2012-13.....	26
Table 8: Weighted average GCV of Gas proposed by petitioner for FY 2012-13 (kcal/scm) .....	27
Table 9: Weighted Average Cost of Gas (Rs/1000 scm) considered for FY 2012-13 .....	29
Table 10: Variable Charges .....	30
Table 11 : Depreciation recovered as part of tariff for earlier years.....	32
Table 12: Interest Charges as submitted by the petitioner for FY 2012-13 .....	33
Table 13: Interest Charges approved for the year FY 2012-13.....	34
Table 14: Interest on Working Capital proposed by petitioner for the year FY 2012-13.....	34
Table 15: Interest on working capital approved for FY 2012-13 .....	35
Table 16: Operation and Maintenance Expenses proposed by petitioner for FY 2012-13 .....	37
Table 17: Summary of capacity charges approved for FY 2012-13 .....	39
Table 18: Variable charges approved as part of review for the year FY 2011-12 .....	42

### List of Annexures

S.No.	Annexure
1	Admission Order dated 9 <sup>th</sup> February 2012 issued by the Commission
2	Public Notice by PPCL on the Tariff Petition for FY 2012-13 inviting suggestions/comments from stakeholders
3	Public Notice issued by the Commission for intimation of public hearing
4	Calculations of the monthly energy charges as part of the Review of FY 11-12( from June'11 to Oct'11)

## List of Abbreviations

Abbreviation		Full Form
Act	:	Electricity Act, 2003
APC	:	Auxiliary Power Consumption
CERC	:	Central Electricity Regulatory Commission
CGS	:	Central Generating Station
Commission/JERC	:	Joint Electricity Regulatory Commission for the state of Goa and union territories
EA 2003	:	Electricity Act, 2003
EDP	:	Electricity Department, Puducherry
FC	:	Fixed Charges
FY	:	Financial Year
GFA	:	Gross Fixed Assets
GCV	:	Gross Calorific Value
JERC	:	Joint Electricity Regulatory Commission for the state of Goa and union territories
MU	:	Million Unit
MW	:	Mega Watt
NAPAF	:	Normative Annual Plant Availability Factor
O&M	:	Operation and Maintenance Expenses
PAF	:	Plant Availability Factor
PLF	:	Plant Load Factor
PPA	:	Power Purchase Agreement
PPCL	:	Puducherry Power Corporation Limited
RO	:	Reverse Osmosis
RoE	:	Return on Equity
SHR	:	Station Heat Rate

Before the

**Joint Electricity Regulatory Commission**  
**for the State of Goa and Union Territories**  
Gurgaon

CORAM <sup>1</sup>  
Dr. V K Garg (Chairperson)

Petition No. 69/2012

In the matter of

Determination of Generation Tariff for the Financial Year 2012-13 for Puducherry Power Corporation Limited (PPCL) Gas Power Station (32.5 MW)

And in the matter of

Puducherry Power Corporation Ltd. (PPCL).....Petitioner

Electricity Department, Puducherry .....Respondent

**ORDER**

Date: 13<sup>th</sup> April 2012

**1. INTRODUCTION**

**1.1 JERC Formation**

In exercise of the powers conferred by Section 83 of the Electricity Act, 2003 the Central Government constituted a two member (including Chairperson) Joint Electricity Regulatory Commission for all Union Territories except Delhi to be known as “Joint Electricity Regulatory

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<sup>1</sup> As per section 93 of Electricity Act, 2003; No act or proceedings of the Appropriate Commission shall be questioned or shall be invalidated merely on the ground of existence of any vacancy or defect in the constitution of the Appropriate Commission. Therefore due to vacancy of the position of Hon’ble Member in the Joint Electricity Regulatory Commission for the state of Goa and the UTs, the Hon’ble Chairperson is completing the Coram.

Commission for Union Territories” with headquarters at Delhi as notified vide notification no. 23/52/2003 – R&R dated 2<sup>nd</sup> May, 2005. Later with the joining of the state of Goa, the Commission came to be known as “Joint Electricity Regulatory Commission for the State of Goa and Union Territories” as notified on 30th May 2008. The Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Andaman & Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Daman & Diu, Lakshadweep and Puducherry) started functioning with effect from August 2008. Office of the Commission is presently located in a rented building in the district town of Gurgaon, Haryana.

## **1.2 Puducherry Power Corporation Limited**

Puducherry Power Corporation Limited (hereafter referred to as ‘PPCL’ or ‘Petitioner’), an undertaking of Government of Puducherry, is a Government company within the meaning of Companies Act, 1956. Further, it is a “Generating Company”, as defined under sub-section 28 of section 2 of Electricity Act, 2003.

PPCL was incorporated on 30<sup>th</sup> March 1993, with the objective of generating 32.5 MW of Electricity (22.9 MW from gas turbine and 9.6 MW from Steam turbine) at Karaikal which is one of the outlying regions of Union Territory of Puducherry. The required gas of 1.91 lakhs cubic meter of gas per day is obtained from the gas wells at Narimanam in the Cauvery basin under an agreement with the GAIL (India) Ltd.

The commercial operation of the station has been declared with effect from 03<sup>rd</sup> January 2000 and is supplying power to Electricity Department, Puducherry under the Power Purchase Agreement (PPA) signed with them on 25<sup>th</sup> February 2002. Consequent to setting up of Hon'ble Joint Electricity Regulatory Commission, the Petitioner had filed petition for determination of tariff for the period 2011-12. Hon'ble Commission vide order dated 06<sup>th</sup> August 2011 has approved tariff with effect from June, 2011. Subsequently, based on review petition filed by Petitioner, Hon'ble Commission has revised the tariff vide its order communicated to PPCL on 28<sup>th</sup> December 2011.

## **1.3 Filing of Petition**

PPCL has filed its petition before Joint Electricity Regulatory Commission for the state of Goa and the UTs for approval of tariff for FY 2012-13 for Puducherry Gas Power Station (32.5 MW) for sale of power to the deemed distribution licensee of Puducherry on 06<sup>th</sup> February 2012, under section 62 read with regulation no. 3 to 10 of “Joint Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2009”.

#### **1.4 Acceptance of Petition**

The Commission admitted the petition for determination of Generation Tariff for FY 2012-13 vide its Order dated February 9, 2012 subject to clarifications, if any, which would be obtained from the Petitioner from time to time. A copy of the Admission Order dated February 9, 2012 is enclosed as **Annexure 1** to this Order.

#### **1.5 Interaction with the petitioner**

The Order has referred at numerous places to various actions taken by the “Commission”. It may be mentioned for the sake of clarity, that the term “Commission” in most of the cases refers to the Staff of the Commission and the Consultants appointed by the Commission for carrying out the due diligence on the petitions filed by the utilities, obtaining and analysing information/clarifications received from the utilities and submitting all issues for consideration by the Commission.

For this purpose, the Commission Staff and Consultants held discussions with the Petitioner, obtained information/clarifications wherever required and carried out technical validation with regard to the information provided.

The role of the Commission has been to hold public hearings and to take the final view with respect to various issues concerning the principles and guidelines for tariff determination. The use of the term “Commission” may, therefore, be read in the context of the above clarification. The Commission has considered due diligence conducted by the Staff of the Commission and the Consultants in arriving at its final decision.

The Commission interacted regularly with the Petitioner to seek clarifications and justification on various issues essential for the analysis of the tariff petition. The Commission and the Petitioner also discussed key issues related to the petition, which included norms of operation of the plant, details of fuel expenses submitted to the Commission, etc.

The Commission conducted validation session with the Petitioner during which discrepancies in the petition and additional information required by the Commission were sought.

The Petitioner submitted its replies, as shown below, in response to the queries raised by the Commission, which have been considered during approval of the tariff of the Petitioner.



**Table 1: List of Correspondence with PPCL**

S.No.	Date	Subject
1.	23.03.12	Queries and additional data sought by the Commission
2.	28.03.12	Reply to the queries and additional data sought by the Commission

## 1.6 Public Hearing Process

The Commission directed the petitioner to publish the summary of the tariff proposal in the abridged form and manner as approved in accordance with section 64 of the Electricity Act 2003 to ensure public participation.

The public notice by PPCL was published in the following newspapers for inviting objections/ suggestions from its stakeholders on the tariff petition:

**Table 2: Details of public notice published by PPCL**

S.No.	Date	Name of newspapers	Place
1.	15.02.12	Dinakaran (Local Language)	Karaikal, Puducherry
2.	15.02.12	The Indian Express (English)	Puducherry, Karaikal, Mahe, Yanam
3.	15.02.12	Respective local languages	Mahe, Yanam

The petitioner also cited the public notice and the petition on its website ([www.ppcl.nic.in](http://www.ppcl.nic.in)) for inviting objections and suggestions on their petition.

Interested parties / stakeholders were requested to file their objections / suggestions on the petition on or before 05<sup>th</sup> March 2012. The copies of public notice are attached as **Annexure 2** to this order.

The Commission also published a public notice in the following leading newspapers on giving due intimation to stake holders, consumers, objectors and the public at large about the public hearing by the Commission to be held at Danal K.A Thangavelu Kalaiyarangam, Theitta Street, near Municipality Marriage Hall, Karaikal, Puducherry on 15.03.12.

**Table 3: Details of public notice published by Commission**

S.No.	Date	Name of newspapers	Place
1.	26.02.12	Dinakaran (Local Language)	Puducherry
2.	26.02.12	Daily Thanthi	Puducherry
3.	26.02.12	Mathrabhumi	Kannur

The copies of public notice published by the Commission for intimation of public hearing are attached as **Annexure 3** to this order. The public notice for due intimation of the public hearing was also published in the above newspapers on 14.03.12.

The Public hearing was held on 15<sup>th</sup> March 2012 at Danal K.A Thangavelu Kalaiyarangam, Theitta Street, near Municipality Marriage Hall, Karaikal, Puducherry from 2.30 PM to 4.00 PM. During the public hearing, each objector was provided a time slot for presenting his views on the petition of PPCL before the Commission. All those present in the hearing, irrespective of whether they had given a written objection or not, were given an equal opportunity to express their views. Only ED, Puducherry had made a written submission of the objections.

The issues and concerns voiced by stakeholders have been examined by the Commission. The major issues discussed during the public hearing, through the comments made by the stakeholders and the views of the Commission, have been summarized in section 3 of this order.

## 2. Summary of Tariff Petition filed by PPCL for FY 2012-13

### 2.1 Introduction

The petitioner has submitted the projections of operational parameters of the generating station for FY 2012-13. The operational parameters pertain to plant availability, plant load factor, station heat rate (SHR), auxiliary power consumption. The costs cover both the energy (variable) and capacity (fixed) charges.

### 2.2 Summary of fixed and variable charges projected by PPCL for FY 2012-13

The gross and net generation, the fixed and the variable charges projected by the petitioner for FY 2012-13 are as given below:

**Table 4: Capacity and Variable Charges proposed by PPCL for FY 2012-13**

S.No.	Particulars	Proposed by the petitioner for FY 2012-13
1.	Gross generation (MUs)	257
2.	Auxiliary consumption (%)	6.22%
3.	Net generation (MUs)	241.01
<b>4.</b>	<b>Capacity Charges (Rs. Crores)</b>	<b>26.83</b>
(a)	Interest on loan capital (Rs. Crores)	0.09
(b)	Depreciation (Rs. Crores)	5.26
(c)	Advance against depreciation (Rs. Crores)	-
(d)	O&M expenses (Rs. Crores)	8.79
(e)	Interest on working capital (Rs. Crores)	2.84
(f)	Foreign exchange rate variation (Rs. Crores)	-
(g)	Return on equity (Rs. Crores)	9.86
5.	Energy/Variable charges (Rs. Crores)	<b>55.94</b>
6.	Total Expenses (Rs. Crores)	<b>82.78</b>
<b>7.</b>	<b>Energy charges per unit (Rs./kWh)</b>	<b>3.23</b>

### **2.3 Prayer**

The petitioner has prayed the Hon'ble Commission to:

1. Approve the tariff for FY 2012-13 as brought out in the petition at 85% PLF.
2. Allow the 'Normative Annual Plant Availability Factor' at 85% as laid down in the CERC Regulation vide clause no. 26 for Karaikal Power Station for the year 2012-13 for full fixed cost recovery.
3. Allow Heat rate and Auxiliary Consumption as per actual for the year FY 2012-13.
4. Allow the recovery of filing fees as and when paid to the Hon'ble Joint Commission and publication expenses from the beneficiary.
5. Pass any other order in this regard as the Hon'ble Commission may find appropriate in the circumstances pleaded above.
6. Allow the recovery of filing fees paid to Hon'ble Commission for the tariff period 2011-12 and publication expenses incurred by PPCL from the beneficiary.

### **3. Brief Summary of objections raised, response from PPCL and Commission's Comments**

#### **3.1 Introduction**

In response to the Public notice inviting objections / suggestions from stake holders on the petition filed by PPCL for determination and approval of tariff of PPCL Gas Power Station for FY 2012-13, the Electricity Department, Puducherry filed its objections / suggestions in writing.

Public hearing was held at Karaikal on 15<sup>th</sup> March 2012 where the respondents were given an opportunity to put forth their objections and suggestions on the Tariff Petition to the Commission.

All the written objections were forwarded to the PPCL by the Commission as and when they were received and PPCL was asked to offer its response to the consumers / Commission in respect of the objections raised.

During public hearing many objectors had participated but most of them made verbal objections pertaining to the grievances for Electricity Department, Puducherry (Distribution Licensee) and only one objector filed return objections. Only ED Puducherry had made a written submission of the objections.

The objections raise by the Electricity Department, Puducherry & the submissions made by the PPCL thereto are given as under:

#### **3.2 CAPITAL COST**

##### **3.2.1 Stakeholder's comment**

The Hon'ble Commission had mentioned vide para 6.1 of Tariff order dated 6.8.2011 that as per clause 22(1) Capital cost and Capital structure, the approved investment plan of the generating company shall be the basis for determining the relevant components for each financial year. Further, the regulation 19 of JERC (Terms and conditions for the determination of Tariff) 2009, states that while determining the cost of generation of each thermal/gas/hydro-electric generating stations located within the state, the Commission shall be guided, as far as feasible, by the principles and methodologies of CERC, as amended from time to time.

As per the provisions in the CERC (Terms and conditions for the determination of Tariff) 2009, the capital cost for the determination of tariff is subject to deduction on account of the following from the capital expenditure provided in the audited accounts of the Generating Company.

- a) The assets forming part of the capital expenditure but not in use as per the regulation (7).
- b) Excess expenditure incurred in respect of capitalization of initial spares over and above the ceiling norms specified in regulation (8).
- c) Additional capital expenditure incurred but not covered within the scope of additional capitalization specified in regulation (9).
- d) Revenue earned from sale of power after accounting for the fuel expenses as per the regulation (11).

In this context, it is submitted that this Hon'ble Commission had already indicated vide para 3.4.2. of Tariff Order dated 6.8.2011 that the cost effect arising out of the cost of Naptha, HSD and its spares shall be considered at the time of true up. In addition to the above, the petitioner had acquired the land in the year 2009-10 for the construction of their Corporate office but the construction work is not initiated till date. In respect of (b), the value of spares capitalized in the year 2005-06 was Rs. 6.45 crores and this is in addition to the value of spares capitalized in respect of both Sub-station package and Power Plant package at the time of capitalization of project. However, as per the regulation (8) of CERC, the maximum value of capitalization of initial spares is limited to 4% i.e. Rs. 5.25 crores ( $\text{Rs.}131.29 * 0.04$ ). In respect (c), this Hon'ble Commission had further directed the petitioner vide para 6.2 of Tariff Order dated 6.8.2011 that approval of the competent Authority needs to be obtained to regularize the capital expenditure already incurred over and above the Techno Economic Clearance cost of the Project. Regarding (d), this Hon'ble Commission had already set aside the claim vide para 3.4.3 of tariff order dated 6.8.2011.

The cost effect arising out of the above issues on the capital cost for the determination of tariff may have to be arrived at only on the basis of the audited accounts for the instant station.

The respondent therefore submits that the additional capital expenditure proposed by the petitioner during the tariff year 2012-13 may be considered on

regularization/obtaining approval of the competent authority for the excess expenditure incurred over and above the cost of Techno Economic Clearance issued by CEA.

### **3.2.2 Petitioner's submission**

The respondent has sought the issue regarding capital cost of Rs. 137.77 Crores as on 31.03.2011. It is submitted that the Hon'ble Commission had limited Gross Fixed Asset/Capital cost to Rs. 137.77 crores as on 31.03.2011 against the claim of Rs. 146.45 crores. It is imperative to submit that as per the regulations 22(2) of the JERC (Terms & conditions of tariff Regulation, 2009) that the investments made prior to and up to 31<sup>st</sup> March immediately preceding the date of the notification of these Regulations or date of receipt of a petition of tariff determination whichever is earlier shall be considered on the basis of audited accounts or approvals already granted by the Commission and the said project works have been completed and put into use during the financial year 1999-2000. It is incorrect on the part of the Respondent to say that approval has not been obtained and put into use.

In the light of the above, it is submitted that the Corporation got the approval from the Government of Puducherry towards the erection of Reverse Osmosis Plant at a total capital cost of Rs. 4.29 crores which is nearing completion and the same shall not be linked with the earlier capital cost of Rs. 146.15 crores though it is an additional capital cost. It may be seen that the claim of petitioner is in line with CERC Tariff Regulations/JERC Regulations and contentions raised by Respondent may be rejected.

### **3.3 AUXILIARY POWER CONSUMPTION (APC)**

#### **3.3.1 Stakeholder's comment**

Regarding Auxiliary Power Consumption (APC), the petitioner has furnished the Plant Load Factor (PLF) in percentage achieved in various years right from 2000-01 to 2009-10 and claimed that APC depends on the PLF, that is, the APC is inversely proportional to the PLF. But from the figures furnished by PPCL, it is not so. The petitioner could achieve a less APC of 5.30 % even at a lower PLF of 87.56 % during 2001-02, whereas a high APC of 6.0 % has been recorded during 2005-06 even though the PLF was at 90.76 %. Hence, the contention of the PPCL in this aspect is totally false. The auxiliary consumption during the years 2009-10 and 2010-11 was high as the plant was not in normal operation on account of shortage of gas supply, employees' strike and major break down. Hence, these years may not be taken as reference for fixing the APC. The month wise PLF and APC for the period up to October 2011 are tabulated below:

Month	PLF(%)	APC(%)
April	94.73	6.09
May	92.73	6.11
June	80.24	6.87
July	87.67	6.02
August	90.36	6.19
September	90.71	6.25
October	92.43	6.06

From the above, it may kindly be seen that the claim of the petitioner in their rejoinder, that is, the APC is inversely proportional to the PLF is not correct. Since the petitioner has proposed to commission the R.O. plant under erection in the year 2012-13 and as the APC is a controllable parameter, the APC of 5.5% already fixed by this Hon'ble Commission based on the guidelines of CEA may be considered for the tariff year 2012-13.

### 3.3.2 Petitioner's submission

The Respondent has raised the issue on APC by comparing actual APC particular to year 2004-05. It is submitted that the APC w.r.t. PLF for the years 2000-01 to 2009-10 are given below:

YEAR	PLF(%)	APC(%)
2000-01	82.24	5.45
2001-02	87.56	5.30
2002-03	92.73	5.43
2003-04	96.48	5.47
2004-05	96.74	5.65
2005-06	90.76	6.0
2006-07	93.05	5.90
2007-08	95.85	5.98
2008-09	90.46	5.94
2009-10	77.74	6.42

From the above figures it is very clear that APC depends on the PLF i.e. when the PLF is high the APC is minimum and vice-versa. To prove the point further we may just compare the APC and PLF of 2 months of 2011-12 i.e. April'11 and Sept'11.



MONTH	PLF (%)	APC (%)
APRIL'11	94.79	6.07
SEPT''11	90.75	6.23

From the above it may be seen that when the PLF increases by 4 % the APC decreases by 0.16%. So to achieve an APC of 6 % itself the plant has to generate consistently above 95% PLF which may not be possible after 12 years of service. In the initial years the PLF of 97 to 98 % was easily achieved hence the APC was maintained at 5.5%. At this juncture considering life of the equipments the APC of even 6% is difficult to achieve. Hence it is submitted to the Hon'ble Commission that the APC sought for in the Tariff petition may please be approved and contentions raised by Respondent may be rejected.

The guaranteed power consumption for the Reverse Osmosis Plant which is coming up is 58.57 kwh so the monthly impact on APC may be around 0.2 % rise in APC because of the RO plant. Because of R.O.Plant coming up, the life of the heat exchangers and the pipe lines will increase but there may not be any direct impact on reduction in APC and contentions raised by Respondent may be rejected

### 3.4 GROSS HEAT RATE (GHR)

#### 3.4.1 Stakeholder's comment

The statement of the PPCL in their rejoinder that the Gross Heat Rate is dependent **only** on the Plant Load Factor is not correct.

YEAR	PLF (in %)	GHR (Kcal/kwh)
2009-10	77.74	2653.16
2010-11	68.65	2647.07
2011-12 (up to October)	89.87	2657.67

From the above table, it may kindly be seen that even though the PLF of the year 2011-12 is higher by more than 10% and 20% of the years 2009-10 & 2010-11 respectively, there is no improvement in the GHR of the year 2011-12. It shows that the operation of the plant in the year 2011-12 is not up to the normal level of performance even though there is no shortage of supply of gas by M/S GAIL. Further, it is submitted that the plant was not in normal operation during the years 2009-10 & 2010-11 on account of shortage of gas supply, employees' strike and major break down.

The respondent therefore submits that the GHR of the plant in the years 2009-12 may not be considered for fixing the GHR of the plant for the tariff year 2012-13.

### 3.4.2 Petitioner's submission

The respondent has raised the issue on GHR of the station. It is submitted that the year wise Gross heat rate along PLF is shown below:

YEAR	PLF (in %)	GHR (Kcal/kwh)
2000-01	82.24	2645.929
2001-02	87.56	2621.531
2002-03	92.73	2496.361
2003-04	96.48	2480.863
2004-05	96.74	2473.944
2005-06	90.76	2511.962
2006-07	93.05	2513.458
2007-08	95.85	2497.121
2008-09	90.46	2526.337
2009-10	77.74	2651.276

From the above table it is clear that Heat rate is dependent on Plant Load Factor. Even when the Plant was new, the heat rate was above 2600 Kcal/kwh for the first two years of operation because the PLF was low. Subsequently due to exceptional performance of the Plant from 2003-04 to 2004-05 the plant heat rate was hovering around 2500 Kcal/kwh. The heat rate of 2474 Kcal/kwh was achieved in 2004-05 were in four months i.e. Aug'04, Sept'04, Jan'05 & Feb'05 more than 100 % PLF was recorded. So in spite of such high performance only 2474 kcal/kwh was achieved which definitely is not possible in the present condition as degradation factor and aging of the plant has to be considered and applied. Hence it is submitted to the Hon'ble Commission that the heat rate sought for in the petition may be permitted and contentions raised by Respondent may be rejected.

## 3.5 NORMATIVE ANNUAL PLANT AVAILABILITY FACTOR (NAPAF)

### 3.5.1 Stakeholder's comment

It is submitted that as the petitioner is maintaining PLF of around 90% in the year 2011-12, it may not be difficult for the instant station to achieve the NAPAF more than 87% in the financial year 2012-13.

The respondents therefore requests that the NAPAF of the plant for the tariff year 2012-13 may be considered as 87%.

### **3.5.2 Petitioner's submission**

The Respondent has raised the issue on NAPAF of the station for the FY 2012-13. It is submitted by the Petitioner that the Regulations of the Central Commission from time to time and Regulation 26 of the Regulations of the Central Commission, the NAPAF as applicable to the Petitioner's power plant is 85%. It could not be possible as the ageing of the plant is more than 12 years which would require periodic maintenance which is normally considered at a minimum of a month in a year besides other break down maintenance. It could be seen from the financial year 2009-10 and 2010-11, the PLF was less than 80% which was due to reduction in the gas supply and major breakdown during the financial year 2010-11. During such period, the PLF was 77.4% and 69.00%. It is most humbly requested to consider NAPAF as per JERC Regulations, 2009 and the contention of Respondent may be rejected.

## **3.6 DEPRECIATION**

### **3.6.1 Stakeholder's comment**

The respondent has worked out the depreciation recovered through the tariff as Rs. 121.47 crores (Rs. 114.45 Crores + Rs.7.02 Crores) up to 31.3.2012 as against the amount of Rs.120.79 crores claimed by the petitioner in page no. 39 of the petition. The respondent has worked out the depreciation to be recovered for the year 2011-12 on pro rata for the first two months based on the provision made by the Government of Puducherry and for the balance ten months based on the approved depreciation of this Hon'ble Commission for the year 2011-12 (i.e.)  $(10.29 \times 2/12) + (6.37 \times 10/12) = \text{Rs. } 7.02 \text{ Crores}$ .

The PPCL has mentioned in their rejoinder that they have not been given any incentives or other benefits on PLF in the case of achieving PLF more than 80% of installed capacity. It is to submit that the tariff was approved by the Government only based on the proposal of the PPCL and the tariff which was in existence, till the revision by this Hon'ble Commission was only a single part tariff. In this regard, the Hon'ble CERC in its order dated 9.10.2002, in the matter of approval of revised fixed charges from 1.4.1997 to 31.10.1997 and tariff from 1.11.1997 to 31.3.2001 of Ramagundam Super Thermal Power Station (Petition No.29/2002) had based its decision on accounting of cumulative depreciation in the following words:-

**“22. Before 1.11.1992 the single part tariff was applicable and the petitioner has not furnished the depreciation amount recovered in single part tariff up to 31.10.1992. Therefore, the details of depreciation amount as furnished by the petitioner up to 31.10.1992 as per the accounts maintained have been taken into account.”**

The respondent therefore submits that the total depreciation amount recovered through the tariff up to 31.03.2012 may be considered as Rs.121.47 crores and the remaining depreciable value as on 31.03.2012 over and above the amount of Rs.121.47 crores recovered through tariff may be spread over the balance useful life of the assets as per the regulation 17 (4) of CERC (Terms and Conditions for Determination of Tariff) Regulations 2009.

### **3.6.2 Petitioner’s submission**

The Respondent has raised the issue on recovery of depreciation through tariff in the past years after Commercial Operation Date (COD) of the plant. It is submitted the total depreciation so far provided upto 31.03.2011 (Un-audited Accounts) is Rs. 117.87 crores (as mentioned in instant petition) as per the provisional financial statement against the depreciable Fixed Assets of Rs. 138.56 crores excluding the inclusion of proposed cost pertaining to the Reverse Osmosis Plant of Rs. 4.29 crores excluding the land cost. The total cost of depreciable Fixed Assets is now Rs. 142.85 crores. Further, the depreciation had been arrived on total cost at the time of final revision of tariff by the Government of Puducherry at Rs. 10.29 crores for the financial year 2002-03 and the total cost of depreciable Fixed Assets was Rs. 138.56 crores excluding the now proposed additional capital cost of Rs. 4.29 crores.

It is also imperative to submit to the Hon’ble Commission that the depreciation has been considered at 7.84% as advised by the C&AG in its comments instead of 3.02% as the building has been construed as Plant in view of installation of GTG, Condenser, CEP, etc in the Ground floor and Motor Control Cabin and its accessories, Steam Turbine and its accessories in the 1<sup>st</sup> Floor besides the Gas Turbine’s accessories and other Plant in the 2<sup>nd</sup> Floor. As such, the life of the building is comparatively less considering with normal life of the Building used for administrative purpose. But, the Corporation charged the depreciation in the financial records more than the amount included in the tariff 2002-03 due to additions of assets in the subsequent years and no revision has been made from the financial year 2003-04 upto 2010-11.

While determining the tariff for the financial year 2012-13, the Hon’ble Commission admitted the depreciation on proportionate basis at Rs. 6.37 crores at 87% PLF for the

financial year 2011-12 instead of Rs. 7.02 crores by limiting the Capital cost at Rs. 137.77 crores.

Therefore, it is submitted to the Hon'ble Commission that the depreciation rate for the tariff period 2012-13 has been arrived as per the JERC Regulation, 26 and the details of the workings has been given in the original tariff petition.

However, it is submitted to the Hon'ble Commission, that the depreciation has been recomputed as per JERC Regulations 26 (ii) & 26 (iv), considering historical cost including proposed additional capitalization. Further, it is submitted to the Hon'ble Commission that the accumulated depreciation of the Assets have been restricted to 90% of the total capitalized value of the Assets and the Corporation had not been given any incentives or other benefits on PLF in the case of more than 80% on installed capacity during the earlier periods and it is incorrect on the part of the Electricity Department, Puducherry to say that the Corporation has recovered the amount from the Electricity Department, Puducherry in the form of sale of power. The energy billed amounting Rs. 65.65 crores excluding surcharge is still pending for more than 3 years from Electricity Department, Puducherry. Therefore the contention of the Respondent may be rejected.

It is accordingly prayed that all contentions of Respondent may be rejected and may be allowed as per practice followed by Hon'ble Commission in all tariff periods till date.

In view of above, the prayer of the Respondent reply in points 1 to 6 may be rejected. The Petitioner prays that the Hon'ble Commission may please allow the tariff as claimed by the Petitioner.

### **3.7 Commission's views**

The Commission has observed the objections made by the Electricity Department of Puducherry (referred above as 'stakeholder') and submissions made by the Puducherry Power Corporation Limited (referred as 'petitioner'). The Commission's view is mentioned below:

1. The capacity and energy charges as determined by the Commission in this order are on the basis of projected information/data as supplied by the petitioner unless it has been modified by the Commission exercising due prudence, subject to truing up subsequently, as applicable, on the basis of actual & complete data made available
2. The issue regarding cost of Naptha & HSD system, their spares as capitalized could not be considered for want of data from PPCL. The reply of the petitioner to

stakeholder on their objection on this issue is not satisfactory. This cost effect arising out of the issue shall be considered at the time of true up after prudence check.

3. The issue for consideration of capital cost as projected by the petitioner will be finalized when the said cost is regularized/approved by competent authority
4. The other objections and the submissions made by the petitioner have been reviewed and dealt as and where considered appropriate in the order.

## 4. Tariff Determination for FY 2012-13

### 4.1 About PPCL Gas Power Station

The petitioner owns and operates one combined cycle gas power station generating 32.5 MW of Electricity (22.9 MW from gas turbine and 9.6 MW from Steam turbine) at Karaikal. The details of its capacity, commercial operation data etc. are given in the below table:

**Table 5: Details of the PPCL Gas Power Station**

S.No.	Subject	Particulars
1.	Capacity	
	a) Gas turbine	22.9 MW
	b) Steam turbine	9.6 MW
	<b>TOTAL</b>	<b>32.5 MW</b>
2.	Date of commercial operation	3 <sup>rd</sup> January, 2000
3.	Type of fuel	Natural Gas
4.	Type of cooling system	Induced draft cooling tower
5.	Gas supplier	GAIL

### 4.2 Regulations

As per provisions of Clause 19 of the JERC (Terms and Conditions for Determination of Tariff) Regulations 2009, the Commission, while determining the cost of generation of each thermal/gas/hydro-electric generating stations located within the State, shall be guided, as far as feasible, by the principles and methodologies of CERC, as amended from time to time. The CERC Regulations 2009-14 for generating units have been referred to in this tariff order.

### 4.3 Operational Parameters

#### 4.3.1 Normative Annual Plant Availability Factor (NAPAF)

##### **Petitioner's Submission**

The petitioner submits that the JERC Regulations for Generation stipulate that the Commission shall be guided by the principles and methodologies of CERC (Terms and Conditions of Tariff Determination) 2009-14 as amended from time to time.

CERC has fixed the NAPAF as 85% for the period 2009-14 for recovery of full fixed charges for thermal and gas based generating stations.

The Petitioner submits that the plant is more than 12 years old and requires periodic maintenance besides other breakdown maintenance. The Petitioner submits that the PLF for the financial year 2009-10 and 2010-11 was less than 80% due to reduction in gas supply and major breakdown during the year 2010-11. In view of the actual performance of the plant, the Petitioner request for the relaxation of the norms from the earlier fixed NAPAF of 87% (as per last tariff order) and submits that the normative NAPAF of 85% be allowed for the year FY 2012-13.

### **Commission's Analysis**

The Commission in its last tariff order had approved a Normative Annual Plant Availability Factor (NAPAF) of 87% considering the actual plant availability factor (PAF) data submitted by the Petitioner from the financial year 2000-01 to 2009-10. The PAF for the years 2000-01 to 2009-10 is observed to vary from 91% to 98.84%. However, for FY 2010-11 PAF was 78.64% and PLF as 69% due to reduction in gas supply and major plant breakdown. For fixing the NAPAF, the abnormal value for the year FY 2010-11 i.e. PAF of 78.64% is not considered. Also, in the review order issued by the Commission on 03<sup>rd</sup> November 2011, the Commission found no merit in the plea of the petitioner to relax the NAPAF for the year FY 2011-12.

For the year FY 2012-13, the Commission maintains its earlier stand that data for FY 2010-11 is a stray case as compared to continuous data from FY 2000-01 to 2009-10 which justifies its performance. In view of the data submitted by the petitioner and analysis of the past trend of PAF from 2000-01 to 2010-11, the Commission fixes the NAPAF at 87% for the year FY 2012-13, with a view to promote and maintain the efficiency level achieved for a continuous period of 10 years.

**The Commission, therefore, approves the Normative Annual Plant Availability Factor (NAPAF) at 87% for FY-2012-13 against the NAPAF at 85% proposed by the petitioner.**

### **4.3.2 Auxiliary Power Consumption (APC)**

#### **Petitioner's Submission**

The petitioner submits that the APC as per actuals be considered for the period from 1<sup>st</sup> April 2011 to 30<sup>th</sup> Oct 2011 because the station has electric gas booster compressor pumps due to which APC is higher. CEA has also recommended higher APC for plants having electric driven gas booster compressors. Since natural gas is supplied at a lower pressure (i.e) 3 to 5Kg/Sq CM, electric driven gas booster compressors are required to boost up the gas



pressure to 17Kg/Sq CM resulting in increase in APC. Four electric driven gas booster compressors of 300kW each have to be run to achieve full load.

The petitioner in view of the above facts and keeping the vintage of the power plant in mind has claimed an APC of 6.22% for the year FY 2012-13.

### **Commission's Analysis**

The Commission has observed the submissions made by the petitioner and thus retains the auxiliary consumption norms as mentioned in the CERC regulations and CEA guidelines. As per the CERC (Terms and Conditions for Determination of Tariff) Regulations, 2009 the norm of auxiliary consumption for gas turbine generating stations is as follows:

- |                   |       |
|-------------------|-------|
| 1. Combined cycle | 3.0%  |
| 2. Open cycle     | 1.0 % |

As per CEA guidelines, in cases where electric driven gas booster compressors are part of the auxiliary plant, 2.5% extra auxiliary consumption can be allowed.

In view of the above norms mentioned in CERC regulations and CEA guidelines, the norm of 3% auxiliary consumption for the combined cycle plus additional APC limited to 2.5% for the electric driven gas booster compressor pumps are approved as a part of the auxiliary consumption.

**The Commission, therefore, approves Auxiliary Power Consumption at 3.0% for combined cycle plus additional power consumption limited to 2.5% for electric driven gas booster pumps. Thus 5.5% auxiliary power consumption of gross power generation is approved for the year FY-2012-13.**

### **4.3.3 Gross Station Heat Rate**

#### **Petitioner's Submission**

The petitioner submits that the Gross Station Heat Rate of 2657 Kcal/kWh be considered, based on the FY 2011-12 (upto Oct'11) average heat rate achieved by the generating company during the financial year 2011-12. Since the age of the PPCL station is already more than twelve years old, the degradation factor of the machine is also to be taken into account for the computation of Heat Rate.

### Commission's Analysis

The Commission has considered the past performance of this power station from FY 2001-02 to 2010-11. Further the submissions made for the FY 2011-12 till Oct'11 are also been considered.

The Commission also notes that the actual Gross Station Heat Rate for the period from April to June 2010 and July to September 2010 was 2477.11 kcal/kWh and 2378.05 kcal/kWh respectively. The petitioner had furnished the following data in their petition for review of the Commission's tariff order for FY 2011-12.

**Table 6: Station Heat Rate for the earlier years**

Year	Station Heat Rate (kcal/kWh)	
	Net Station Heat Rate	Gross Station Heat Rate
2000-01	2405.39	2645.92
2001-02	2338.21	2621.53
2002-03	2269.41	2496.35
2003-04	2255.33	2480.86
2004-05	2249.04	2473.94
2005-06	2283.62	2511.98
2006-07	2284.96	2513.46
2007-08	2270.17	2497.12
2008-09	2296.67	2526.34
2009-10	2410.25	2551.28

In the tariff order for FY 2011-12, the Commission had approved Gross SHR as 2250 kcal/kwh which was revised to 2400 kcal/kwh in the review tariff order. The petitioner has now proposed Gross SHR as 2657 kcal/kwh based on the actual FY 2011-12 (upto Oct'11).

Although the Commission had desired the petitioner to achieve GSHR of 2400 kcal/kwh, the same could not be achieved by the petitioner. The Commission, therefore, taking a lenient view, still keeping the focus on efficiency improvement, approves Gross SHR of 2475 kcal/kwh for the year FY 2012-13, the best achieved in the year 2004-05.

**The Commission, therefore, approves the Gross Station Heat Rate for the PPCL gas station as 2475 kcal/kWh for the FY 2012-13.**

#### 4.3.4 Performance Parameters Approved for the year FY 2012-13

Based on the above analysis, the performance parameters as approved for the PPCL gas power station for FY 2012-13 are listed in the table below:

**Table 7: Performance Parameters approved for the year FY 2012-13**

S.No.	Parameter	Projected by the petitioner	Approved by the Commission
1.	Normative Plant Availability Factor (%)	85%	87%
2.	Auxiliary Power Consumption (%)	6.22%	5.5%
3.	Gross Station Heat Rate (kcal/kWh)	2657	2475

#### 4.4 Variable Cost Parameters

The Commission has prescribed a formula, in line with the CERC formula, for calculating Energy (Variable) charges on month to month basis for billing purpose. However, in the following paras 4.4.1 to 4.5, variable charges has been computed to workout cost of gas (one month) and receivable for two months (energy charge component) which are used for calculation of working capital requirement.

The details of Wt. Av. GCV of gas and price of gas as submitted by PPCL and the Commission's analysis are discussed below.

##### 4.4.1 Weighted Average Gross Calorific Value of Gas

###### Petitioner's Submission

The petitioner has submitted a Gross Calorific Value of 9980.92 kcal/scm for the year FY 2012-13 based on the weighted average gross calorific value of gas on the actuals for the year FY 2011-12 considered upto Oct'11.

###### Commission's Analysis

The CERC Regulations state that for calculating working capital requirement, the *landed cost incurred (taking into account normative transit and handling losses) by the generating company and gross calorific value of the fuel as per actual for the three months preceding the first month for which tariff is to be determined shall be considered and no fuel price escalation shall be provided during the tariff period.* In line with the CERC Regulations, the

Commission had asked PPCL to submit the latest data. Accordingly, PPCL made additional submission on 28.03.2012 furnishing the following details:

**Table 8: Weighted average GCV of Gas proposed by petitioner for FY 2012-13 (kcal/scm)**

S.No.	Parameter	Jan. 2012	Feb. 2012	March 2012 (15 days)
1.	Weighted Average GCV of gas as fired (kcal/scm)	10016.76	9891.27	9910.91
2.	Weighted average GCV of gas for the period (kcal/scm) from Jan'12 to March'12	9947.02		

Based on the additional data submitted by the petitioner, the Commission considers it appropriate to take GCV of 9947.02 kcal/scm for the computation of energy (variable) charges.

**Accordingly, the Commission considers the Gross Calorific Value of Gas as 9947.02 kcal/scm for FY2012-13.**

#### 4.4.2 Weighted Average Price of Gas

##### **Petitioner's Submission**

The petitioner has considered the weighted average landed cost of gas for the months of April'11, May'11 and June'11. The petitioner submits that the instant station took a major shut down during the part of the month of January'11, February'11 and March'11 due to which these months data has not been considered. Instead to arrive at the cost of gas in a realistic manner, the petitioner has considered the actuals for the months of April'11, May'11 and June'11.

The petitioner has considered the weighted average price of gas as Rs 8177 per 1000 scm to arrive at the variable charges for the year 2012-13.

##### **Commission's Analysis**

As the CERC Regulations provide for the landed cost of fuel to be considered for the three months preceding the first month for which tariff is to be determined, the Commission asked PPCL to furnish the latest bills and accordingly PPCL furnished the following details:

S.No.	Parameter	Unit	Jan'12	Feb'12	March'12 (15 days)
			Gas	Gas	Gas
1.	Quantity of gas supplied by GAIL	Cu.m	5,832,809	5,531,487	2,725,172
2.	Adjustment(+/-) in quantity supplied made by GAIL	Cu.m	-	-	-
3.	Gas supplied by GAIL (1+2)	Cu.m	5,832,809	5,531,487	2,725,172
4.	Normative Transit & Handling Losses	Cu.m	-	-	-
5.	Net Gas Supplied (3-4)	Cu.m	5,832,809	5,531,487	2,725,172
6.	Amount charged by the Gas Company	(Rs)	5,44,64,575	4,78,37,966	2,67,53,730
7.	Adjustment(+/-) in amount charged made by Gas Company	(Rs)	-	-	-
8.	Total amount charged (6+7)	(Rs)	54,464,575	50,350,529	26,753,730
9.	Transportation charges by rail / ship / road transport	(Rs)	-	-	-
10.	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)	-	-	-
11.	Demurrage Charges, if any	(Rs)	-	-	-
12.	Cost of diesel in transporting gas through other system, if applicable	(Rs)	-	-	-
13.	Total Transportation Charges (9+/- 10-11+12)	(Rs)	-	-	-
14.	Total amount Charged for fuel supplied including Transportation (8+13)	(Rs)	54,464,575	50,350,529	26,753,730
15.	Weighted average GCV of Gas as fired	(kCal/Cu.m)	10016.76	9891.27	9910.91
16.	Weighted average rate of Fuel/1000 Cu.m	Rs/1000 Cu.m	9,337.62	9,102.53	9,817.26

The Commission in its analysis has considered the weighted average (weighted by the quantity procured during the period) to arrive at Rs. 9338.098 per 1000 scm rate for the fuel.

**Table 9: Weighted Average Cost of Gas (Rs/1000 scm) considered for FY 2012-13**

S.No.	Parameter	Jan 2012	Feb 2012	March 2012 (15 days)
1.	Weighted average cost of gas as fired (Rs /1000 scm)	9337.62	9102.53	9817.26
2.	Weighted average cost of gas (Rs/1000 scm) approved by the Commission for FY 2012-13	9338.098		

The Commission in its last year Tariff Order had approved a weighted average price of gas as Rs 8249.56 per 1000 scm for the year FY 2011-12, allowing for an escalation of 5% over the weighted average price for FY 2010-11.

The Commission in its analysis for FY 2012-13 considers it appropriate to allow the weighted average price of gas as Rs 9338.098 per 1000 scm to arrive at the variable charges for the year 2012-13 based on the additional submissions made by the petitioner.

**Accordingly the Commission considers the weighted average price of gas as Rs. 9338.098 per 1000 SCM for FY 2012-13.**

#### 4.5 Energy (Variable) Charges

Based on the performance and cost parameters approved, the fuel cost of PPCL gas station for FY 2012-13, is worked out as given in the table below:

**Table 10: Variable Charges**

S.No.	Items	Unit	Approved
1.	Station Heat Rate	K.Cal/kWh.	2475
2.	Calorific value of Gas	K.Cal/scm	9947.02
3.	Price of Gas	Rs/1000 scm	9338.098
4.	Fuel Cost /Gross units	Rs./kWh	2.323
5.	<b>Fuel Cost/Net units</b>	<b>Rs./kWh</b>	<b>2.459</b>

#### 4.6 Capacity Charges/ Fixed Costs for the year FY 2012-13

##### **Petitioner's Submission**

The petitioner has submitted the projections of the capacity charges (fixed) comprising the following components for FY 2012-13

1. Depreciation
2. Interest charges
3. Return on equity
4. O&M expenses
5. Interest on working capital

The components of fixed charges mentioned above are discussed in detail in the following paragraphs.

##### **4.6.1 Capital Cost for the year FY 2012-13**

##### **Petitioner's Submission**

The petitioner is presently claiming the tariff based on the capital cost admitted by the Hon'ble Commission plus the projected additional capital expenditure of Rs. 4.29 Crores on account of the Reverse Osmosis (RO) plant which is nearing completion and is likely to be capitalized in the year 2012-13.

The petitioner submits that the capital cost for the purpose of determination of tariff shall be

subject to revision based on the outcome of the appeals filed before the Hon'ble Appellate Tribunal.

The petitioner therefore is claiming a capital cost of Rs. 137.77 Crores plus Rs. 4.29 Crores. A total of Rs. 142.06 Crores for the financial year 2012-13

### **Commission's Analysis**

It is noted that the petitioner was not able to provide adequate documentary proof substantiating the investment of Rs. 4.29 Crores for the financial year 2012-13. The Commission had asked the petitioner to furnish some documentary evidence in support of their contention of the RO plant commissioning in FY 2012-13. The petitioner in their additional submission on 28<sup>th</sup> March 2012 has submitted that they were pursuing with the RO project contractor to complete the work which has got delayed inordinately. The petitioner has submitted that the work is nearly towards completion but there is no documentary proof to support the submission of the petitioner.

The Commission has noted that the work of the RO plant has been going on for many years. The petitioner could not produce any document in support of their claim of its completion in FY 2012-13. Thus, it would be appropriate not to consider it as capitalized asset & not allow it as a part of the Capital Cost. However, if in case the same is capitalized in FY 2012-13, then the Commission will consider it at the time of true-up.

Accordingly, the Commission approves the capital cost of Rs. 137.77 Crores as admitted in the last tariff order.

**The Commission therefore approves the capital cost at Rs. 137.77 Crores for FY 2012-13 against Rs. 142.06 Crores claimed by the petitioner.**

## **4.6.2 Depreciation for the year FY 2012-13**

### **Petitioner's Submission**

The petitioner has projected the depreciation charge for the year of Rs. 5.26 Crores. The petitioner has restricted the accumulated depreciation of the asset to 90% of the capitalized value of the asset. The petitioner has claimed depreciation on the considered capital cost of Rs. 142.06 Crores; the cumulative depreciation claimed upto the year 2011-12 is Rs. 119.06 Crores.

The petitioner has applied the weighted average rate of depreciation of 5.05% (based on the actual assets in place) on the average capital cost of Rs. 139.92 Crores to arrive at the depreciation of Rs. 5.26 Crores.



### Commission's Analysis

The petitioner has calculated the depreciation based on the submitted average capital cost of Rs. 139.92 Crores. However, the capital cost approved by the Commission stands at Rs. 137.77 Crores and accordingly the depreciation claimed has been worked out. The cumulative depreciation recovered as part of the tariff till date (from FY 1999-00) stands at Rs. 119.05 Crores.

The depreciation recovered so far is as shown below:

**Table 11 : Depreciation recovered as part of tariff for earlier years**

Year	Depreciation recovered as part of tariff (In Rs. Crores)
1999-00	2.27
2000-01	9.32
2001-02	10.22
2002-03	10.29
2003-04	10.29
2004-05	10.29
2005-06	10.29
2006-07	10.29
2007-08	10.29
2008-09	10.29
2009-10	10.00
2010-11	8.84
2011-12	6.37
<b>Total (upto 11-12)</b>	<b>119.05</b>

It is noted that the allowable depreciation limit is 90% of the asset value, which comes out to be Rs. 123.99 Crores (90% of Rs. 137.77 Crores). As the total approved value of depreciation till FY 2011-12 is Rs. 119.05 Crores and the unrecovered depreciation is Rs. 4.94 Crores (out of total claimable depreciation of Rs. 123.99 Crores) and therefore the maximum depreciation that can be claimed for the financial year 2012-13 is Rs. 4.94 Crores.. **The Commission therefore approves the depreciation at Rs. 4.94 Crores, for FY 2012-13 against Rs. 5.26 crores claimed by the petitioner.**

### 4.6.3 Interest Charges for the year FY 2012-13

#### Petitioner's Submission

The petitioner has projected the interest charges for the year at Rs. 0.09 Crores. It is submitted by the petitioner that the entire capital cost of the project has been funded from its own resources and capital investment has been considered at 70% normative loan and 30% normative equity as per JERC Regulations.

The petitioner has considered the closing capital cost of Rs. 142.06 Crores for FY 2012-13 and claimed interest of Rs. 0.09 Crores on normative loan of Rs. 97.94 Crores (70% of the average capital cost of Rs. 139.92 Crores on an opening capital cost of Rs. 137.77 Crores) at an interest rate of 12% per annum. The interest rate has been considered at 1% percentage point below Prime Lending Rate as notified by the State Bank of India. The petitioner submits that it being a Government company would be in a position to arrange loans at this rate.

The detailed calculations as submitted by the petitioner are as below:

**Table 12: Interest Charges as submitted by the petitioner for FY 2012-13**

S.No.	Details	Amount (In Rs. Crores)
1.	Average Capital cost for the year	139.92
2.	Loan at 70% of average capital cost	97.94
3.	Cumulative repayment upto previous year	96.44
4.	Net loan opening	1.50
5.	Repayment for the year	1.50
6.	Net loan closing	0.00
7.	Average net loan	0.75
8.	<b>Interest at the rate of 12% per annum</b>	<b>0.09</b>

#### Commission's Analysis

As stated above, the petitioner has claimed interest on normative loan of Rs. 97.94 Crores based on the closing capital cost of Rs. 142.06 Crores, and average capital cost of Rs. 139.92 Crores. However, based on the capital cost of Rs. 137.77 Crores approved by the Commission and with normative loan of 70%, the interest charges are computed as in the table below:

**Table 13: Interest Charges approved for the year FY 2012-13**

S.No.	Details	Amount (In Rs. Crores)
1.	Average Capital cost for the year	137.77
2.	Loan at 70% of average capital cost	96.44
3.	Cumulative repayment upto previous year	96.44
4.	Net loan opening	0.00
5.	Repayment for the year	0.00
6.	Net loan closing	0.00
7.	Average net loan	0.00
8.	<b>Interest</b>	<b>0.00</b>

The Commission in its analysis for computation of the interest charges has considered the rate of interest for the year at 11.25% on the existing assets in place, which is the interest approved for the previous year i.e. FY 2011-12. No additional assets have been considered for capitalization during the financial year 2012-13 and the rate of interest of 12% per annum as submitted by the petitioner for the financial year 2012-13 is irrelevant for this tariff order.

**The Commission therefore approves that the interest charges for the year as NIL as against Rs. 0.09 Crores claimed by the petitioner for FY 2012-13.**

#### 4.6.4 Interest on Working Capital

##### Petitioner's Submission

The petitioner has claimed the interest on working capital at Rs. 2.84 crores for FY 2012-13 as per CERC Regulations 18 (b) and JERC Regulations 29 and interest is considered as per CERC Regulations 18 (3). The working capital and interest thereon as arrived by PPCL are as below:

**Table 14: Interest on Working Capital proposed by petitioner for the year FY 2012-13**

S.No.	Details	Amount (In Rs. Crores)
1.	Cost of gas (one month)	4.66
2.	Maintenance spares at 30% of O&M expenses	2.64
3.	Receivables (two months)	13.80
4.	O&M expenses (one month)	0.73
5.	Total working capital	21.83
6.	<b>Interest on working capital at the rate of 13% per annum</b>	<b>2.84</b>

### Commission's Analysis

As per CERC Regulation 18 (6), the working capital to the Gas Turbine Generating Station shall be considered as under:

- i. Fuel cost of one month (Gas) at NAPAF
- ii. Maintenance spares at 30% of O&M expenses specified in Regulation 19
- iii. Receivables equivalent to two months of capacity and energy charges based on the NAPAF
- iv. O&M expenses for one month

The interest on working capital has been considered at the rate of interest on normative basis on short term prime lending rate (PLR) of State Bank of India (SBI) considering the PLR rate as on 13<sup>th</sup> August 2011 i.e. 14.75% per annum. This shall be tried up on the basis of the rate as on 1<sup>st</sup> April 2012, when the same is done.

The Commission considers the working capital and interest thereon as per the regulations mentioned above at an interest rate of 14.75% per annum as below:

**Table 15: Interest on working capital approved for FY 2012-13**

S.No.	Details	Amount (In Rs. Crores)
1	Cost of gas (one month)	4.80
2	Maintenance spares at 30% of O&M expenses	2.64
3	Receivables (two months)	14.04
4	O&M expenses (one month)	0.73
5	Total working capital	22.21
6	<b>Interest on working capital at the rate of 14.75% per annum</b>	<b>3.28</b>

**The Commission approves Rs. 3.28 Crores as interest on working capital for FY 2012-13 against Rs. 2.84 Crores as interest on working capital claimed by the petitioner.**

#### 4.6.5 Return on Equity

##### Petitioner's Submission

It is submitted by the petitioner that the entire capital cost of the project has been funded from its own resources and capital investment has been considered as 70% normative loan and 30% normative equity as per JERC Regulations. (Regulations stipulate that if the equity

employed is more than 30%, the amount of equity for determination of tariff is limited to 30% and the balance amount is considered as normative loan)

The petitioner has submitted the pre-tax rate of return on equity as 23.481% (The base rate of return of 15.5% grossed up by the corporate tax rate of 33.99%) as per JERC Regulations 24 and CERC Regulations. The petitioner submits that it does not have any tax holiday from the financial year 2010-11 (as submitted in the review petition for FY 2011-12) and the tax holiday was applicable to the petitioner only upto FY 2009-10.

The petitioner has claimed return on equity on 30% of the average capital cost submitted i.e. Rs. 41.98 Crores (30% of average capital cost of Rs. 139.92 Crores) at the rate of 23.481% which works out to Rs.9.86 Crores (23.481% of Rs. 41.98 Crores).

### **Commission's Analysis**

The Commission based on the documentary proofs furnished in respect of the tax holiday having come to an end from the year 2010-11, and the Corporation being subject to the corporate tax rate. So, the Commission allows the pre-tax return on equity as 23.481% for the financial year 2012-13.

The return on equity on the approved capital cost of Rs. 137.77 Crores on the normative equity capital base works out as Rs. 9.70 Crores. (23.481% on equity portion (30%) of approved capital cost of Rs. 137.77 Crores)

**Therefore, the Commission approves the return on equity at Rs. 9.70 Crores for FY 2012-13 against Rs. 9.86 Crores claimed by the petitioner.**

## **4.6.6 Operation and Maintenance Expenses**

### **Petitioner's Submission**

The petitioner has claimed the O&M expenses at Rs. 8.79 crore for FY 2012-13. The O&M expenses include employee cost, R&M expenses and A&G expenses.

It is submitted by the petitioner that the O&M expenses are considered at Rs. 22.90 lakh/ MW as specified in CERC Regulations for small gas turbine for the FY 2009-10 and thereafter the O&M expenses for the relevant year have been escalated at 5.72% per annum. This is in line with sub regulation (C) of regulation 19 of CERC regulations for determination of tariff, 2009-2014 and regulation no. 27 of JERC tariff regulations, 2009. The O&M expenses for the financial year 2012-13 for 32.5 MW plant are computed as per the CERC regulations, 2009-2014 and are as below:

**Table 16: Operation and Maintenance Expenses proposed by petitioner for FY 2012-13**

S.No.	Year	Amount (In Rs. Crores)
1.	2009-10	7.44
2.	2010-11	7.87
3.	2011-12	8.32
4.	2012-13	8.79

**Commission's Analysis**

The Commission has examined the O&M expenses claimed by the company. The expenses claimed are in line with sub regulation (C) of regulation 19 of CERC regulations for determination of tariff, 2009-2014 and regulation no. 27 of JERC tariff regulations, 2009 for the 32.5MW gas turbine plant.

**The Commission approves the Operation & Maintenance charges at Rs. 8.79 Crores for FY 2012-13.**

#### 4.7 Energy (Variable) Charge

The Commission approves the computation of energy charges for payment purpose for FY 2012-13 on the basis of the following formula:

$$ECR = \frac{GHR \times LGP \times 100}{GCV \times (100 - APC)}$$

Where

ECR= Energy Charge Rate, in Rs. per kWh sent out upto three decimal places

GHR= Normative Gross Station Heat Rate in kcal/kWh

LGP= Weighted average landed price of gas in Rs/scm, during the calendar month

GCV= Gross Calorific Value of gas, in kcal per scm during the calendar month

APC= Normative Auxiliary Power Consumption in percentage

As the energy charges shall be computed and billed based on the above formula, there will be no need for any adjustment in true-up on this account.

An illustrative example is as shown below:

Assuming,

GHR = Rs 2475 kcal/kWh

LGP = Rs 9.5/scm

GCV = 9900 kcal/scm

APC= Normative Auxiliary power consumption, at 5.5%

ECR =  $2475 \times 9.5 \times 100 / (9900 \times (100 - 5.5)) = \text{Rs } 2.513/\text{kWh}$

So, as can be observed from the above example the energy charges for the month work out to be Rs. 2.513/kWh assuming the above mentioned parameters.

#### 4.8 Capacity Charges (Fixed Costs) and other charges as approved by the Commission

**Table 17: Summary of capacity charges approved for FY 2012-13**

S.No.	Particulars	Approved by the Commission (Amount in Rs. Crores)
	<b>Capacity Charges</b>	
1.	Depreciation	4.94
2.	Interest on loan	0.00
3.	Return on equity	9.70
4.	O&M expenses	8.79
5.	Interest on working capital	3.28
6.	<b>Total capacity charges approved for FY 2012-13</b>	<b>26.71</b>

**The Commission approves the capacity charges at Rs. 26.71 Crores for FY 2012-13 against the proposed capacity charges of Rs 26.84 crores by the petitioner.** The capacity charges (fixed cost) per month to be billed shall be calculated as per sub-regulation 2 (b) of regulation 21 of CERC (Terms and Conditions of Tariff) Regulations, 2009 as amended from time to time.

- The Energy Charges to be billed per month shall be based on the unit energy rate calculated on the basis of the formula provided in section 4.7 of this Order
- In addition to the capacity charges approved above, the Commission also allows recovery of filing fees paid to the Commission and publication expenses for FY 2012-13 from the beneficiary in twelve equal monthly installments
- The Commission also allows recovery of filing fees paid to the Commission and publication expenses for FY 2011-12 from the beneficiary



## 5. Review for FY 2011-12

### 5.1 Background and Review

The JERC tariff regulations, 2009 provide for a review of the previous Tariff Order along with the next Tariff Order. The regulation 8 of JERC regulations, 2009 stipulates that the above exercise would be carried out again in the nature of 'true-up' once the actual figures as per the audited accounts of the particular year become available. Any further variation between the actuals and approved values would be taken care at the time of true-up after prudence check. As per the regulation 8 of JERC regulations, 2009:

#### (8) Review and True Up

- 1) *The Commission shall undertake a review along with the next Tariff Order of the expenses and revenues approved by the Commission in the Tariff Order. While doing so, the Commission shall consider variations between approvals and revised estimates/pre-actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments/ changes in case such variations are for adequate and justifiable reasons. Such an exercise shall be called 'Review'.*
- 2) *(i) After audited accounts of a year are made available, the Commission shall undertake similar exercise as above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up'.*  
  
*(ii) The Truing Up for any year will ordinarily not be considered after more than one year of 'Review'.*
- 3) *The revenue gap of the ensuing year shall be adjusted as a result of review and truing up exercises.*
- 4) *While approving such expenses/revenues to be adjusted in the future years as arising out of the Review and / or Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. Carrying costs shall be limited to the interest rate approved for working capital borrowings.*
- 5) *For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is necessary due to conditions beyond its control.*
- 6) *In case additional supply is required to be made to any particular category, the licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such change of consumer mix and additional*

*supply of power and also indicate the manner in which the licensee proposes to meet the cost for such change of consumer mix and additional supply of power.*

7) *The Commission may consider granting approval to such proposals provided the cost of additional supply is ordinarily met by the beneficiary category.*

**5.2** The Commission has reviewed the expenses incurred for the FY 11-12 based on the actual data provided by the petitioner till October 2011. It is noted that the Commission has carried out the review for the period of June to October 2011 since the last tariff order was applicable from 1<sup>st</sup> June 2011.

**5.3** Further, the variable charges are calculated based on the actual monthly weighted average GCV of gas and average gas price. This has been calculated for each month and compared with the variable charge approved by the Commission in the review tariff order of FY 2011-12 i.e Rs 2.03/kwh.

**5.4** The calculations for variable charge for each month is carried out based on :

$$\text{Energy Charge Rate (Rs/kwh)} = \frac{\text{Weighted average landed cost of gas (Rs/scm)} \times \text{SHR (kcal/kwh)} \times 100}{((\text{Weighted average GCV (kcal/scm)}) \times (100 - \text{APC}\%))}$$

Where SHR = Gross Station Heat Rate

GCV = Gross Calorific Value of the fuel

APC= Auxiliary Power Consumption

5.4.1 The Commission has considered the fortnightly bills of the weighted average GCV and average price of gas as furnished by the petitioner while estimating the variable charge for each month. The detailed calculations have been furnished in **Annexure 4**.

5.4.2 It is noted that the second fortnightly bill for the month of August was not furnished by the petitioner and therefore the Commission was constrained to consider only the first fortnightly data for the entire month. It is directed that the petitioner shall submit complete data at the time of true up to take care of any variation on this account.

5.4.3 The actual variable charge for the month of June, July, August, September and October of FY 2011-12 respectively works out to Rs 2.076/kwh, Rs 2.065/kwh, Rs 2.301/kwh, Rs

2.093/kwh and Rs 2.175/kwh respectively and the total difference in the charges based on the units sent out is Rs 1.136 crores and has been shown in the table below.

**Table 18: Variable charges approved as part of review for the year FY 2011-12**

	Energy Sent Out	Wt Average Cost of Gas	Wt Average GCV	Variable Charge for the month	Approved Rate (Revised Tariff Order)	Variation in rate	Difference in the total variable cost
	MU	Rs/scm	kcal/scm	Rs/kwh	Rs/kwh	Rs/kwh	Rs
June	17.470	8.124	9937.568	2.076	2.03	0.046	803642
July	19.846	8.046	9895.603	2.065	2.03	0.035	694607
August	20.523	9.194	10148.770	2.301	2.03	0.271	5561836
September	19.914	8.124	9858.184	2.093	2.03	0.063	1254559
October	20.980	8.479	9901.445	2.175	2.03	0.145	3042074
<b>TOTAL</b>							<b>1,13,56,718</b>

This amount of Rs 1,13,56,718 is approved by the Commission as part of the review for FY 2011-12 (upto October 2011) and the petitioner is entitled to bill this amount separately as supplementary bills.

The review of capacity charges has not been done since the approval of the different components of the capacity charge is on normative basis.

## **6. Directives**

### **6.1 Metering of the power consumption of electric gas booster compressor**

In the last tariff order for FY 2011-12 dated 6<sup>th</sup> August 2011, the Commission had directed PPCL to install a separate meter for recording the power consumption of electricity by gas booster compressor so as to measure actual power consumption. PPCL have submitted that the procurement process of the meters is under progress and the meters will be installed during the plant shut down. The Commission directs PPCL to expedite installation of meters and commence recording of actual power consumption immediately thereafter.

The auxiliary consumption will be allowed at 3% plus the actual power consumption limited to 2.5% towards the gas booster compressor pumps.

## 7. Conclusion

The Commission approves the capacity (fixed) charges and energy charges for FY 2012-13 and other charges for PPCL Gas Power Station at Karaikal as given below:

1. Capacity/ Fixed Charges for FY 2012-13 at Rs 26.71 crores
2. Energy Charges (net) for FY 2012-13 – to be calculated in accordance with the formula given in Section 4.7 of this Order
3. In addition to the charges approved above, the Commission also allows recovery of filing fees paid to the Commission and publication expenses for FY 2012-13 from the beneficiary in twelve equal monthly installments
4. The Commission also allows recovery of filing fees paid to the Commission and publication expenses for FY 2011-12 from the beneficiary
5. The amount of Rs 11356718 is allowed to be recovered as part of the review for FY 2011-12

The order shall come into force from 01.04.2012 and shall remain effective till 31.03.2013.

**sd/**  
**(Dr. V K Garg)**  
**Chairman**

Place : Gurgaon

Date: 13<sup>th</sup> April, 2012

**JOINT ELECTRICITY REGULATORY COMMISSION FOR  
THE STATE OF GOA AND UNION TERRITORIES  
GURGAON**

Coram  
Dr. V. K. Garg, Chairperson  
Petition No.....69/ 2012

**In the matter of**

Petition for determination of tariff for PPCL Gas Power Station (32.5MW) at Karaikal, Puducherry for  
FY 2012-13

**And in the matter of:**

Managing Director, Puducherry Power Corporation Limited

...Petitioner

Vs

Electricity Department Puducherry

...Respondent

**ORDER**

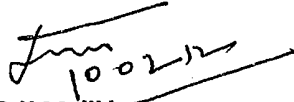
**09.02.2012**

The petition has been examined in the Commission and found to be maintainable. The petitioner was directed to publish the petition in abridged form within three days as per Regulation 29 of JERC (Conduct of Business) Regulations 2009.

The petition admitted.

Sd/-  
(Dr. V.K.Garg)  
Chairperson

Certified copy

  
(R.K.Malik)  
Secretary

R. K. Malik  
Secretary  
Joint Electricity Regulatory Commission  
For State of Goa and Union Territories  
Vanijya Nikunj, 2nd Floor, Udyog Vihar, Ph-V  
Gurgaon-122016, Haryana

# PUDUCHERRY POWER CORPORATION LIMITED

(A GOVT. OF PUDUCHERRY UNDERTAKING)

No. 10, 2nd Cross, Jawahar Nagar, Boomianpet, Puducherry-605005

No. 001/MD/PPCL

Dt. 14.02.2012

## PUBLIC NOTICE

Notice is hereby given to all consumers and stakeholders that Puducherry Power Corporation Ltd. (PPCL) which is a "Generating Company" as defined under Section 2(28) of the Electricity Act 2003, engaged in generation of electricity, has filed before the Joint Electricity Regulatory Commission (JERC) for Goa and UTs, the petition for Aggregate Revenue Requirement and approval of Tariff of the PPCL Gas Power Station (32.5MW) for the year 2012-13, under Section 62 of the Electricity Act, 2003 and Regulation No. 12 of JERC/Regl./10/09 of Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations 2009.

The filing has been taken on record by the Hon'ble Commission in Petition No. 69/2012. The summary of ARR and Tariff for FY 2012-13 is given in the table below:

Sl.No.	Particulars	
1.	Gross Generation (MU)	257.00
2.	Auxiliary Consumption (%)	6.22
3.	Net Generation (MU)	241.015
4.	Capacity charges (₹. Millions)	268.35
	a) Interest on loan capital (₹. Millions)	0.90
	b) Depreciation (₹. Millions)	52.60
	c) Advance against Depreciation (₹. Millions)	-
	d) O&M expenses (₹. Millions)	87.91
	e) Interest on working capital (₹. Millions)	28.38
	f) Foreign exchange rate variation (₹. Millions)	-
	g) Return on equity (₹. Millions)	98.56
	h) Taxes (₹. Millions)	-
5.	Energy/variable charges (₹. Millions)	559.44
6.	Total expenses (₹. Millions) (4+5)	827.79
7.	Cost per unit in ₹. (6/3)	3.43

Copies of the filings and petition referred to above are available in the Office of the Managing Director, Puducherry Power Corporation Ltd., No. 10, Second Cross, Jawahar Nagar, Boomianpet, Puducherry - 605005 and in the website of the Corporation at [ppcl.puducherry.gov.in](http://ppcl.puducherry.gov.in). Interested persons may inspect/peruse the said ARR and tariff proposals and take note thereof during office hours at the said office, free of charge. Copies of the above documents (with enclosures) can also be obtained on payment of ₹250/- for each set from the Office of Managing Director, PPCL at the above premises on all working days between 10:00 hrs and 16:00 hrs from 17.02.2012.

Objections/suggestions, if any, on the ARR filing and tariff proposals submitted by PPCL with supporting material may be filed with the Secretary, Joint Electricity Regulatory Commission for Goa & UTs, 2nd Floor, HSIDC Office Complex, Vanijya Nikunj Complex, Udyog Vihar, Phase V, Gurgaon - 122016 (Haryana) in five copies in person or through registered post so as to reach him on or before 05.03.2012 and a copy of the objection/suggestion should also be sent to the Managing Director, Puducherry Power Corporation Ltd., No. 10, 2nd Cross, Jawahar Nagar, Boomianpet, Puducherry-605005.

The objections/suggestions as above should be filed in five copies (one original + 4 copies) and carry full name and postal address of the person sending the objections and should be supported by an affidavit. If the objection is filed on behalf of any organization or any class of consumers, it should be so mentioned. It may also be specifically mentioned if the person putting in objections/comments also wants to be heard in person.

The JERC, after pursuing the written objections received in response to this notice may invite such objectors as it considers appropriate for a hearing on dates which will be notified by the commission in due course.

SD/-  
MANAGING DIRECTOR  
PUDUCHERRY POWER CORPORATION LTD.  
PUDUCHERRY

No. 392/Info/AD(Press)/2011-12.

# புதுச்சேரி மின்திறல் குழுமம்

(புதுச்சேரி அரசு நிறுவனம்)

10-2-ம் குறுக்குத்தெரு, ஜவகர்நகர், பூமியான்பேட்டை, புதுச்சேரி-605 005.

தேதி: 14.02.2012

## பொது அறிவிக்கை

மின்சார சட்டம் 2003 பிரிவு 2 (28)-ன் கீழ் மின் உற்பத்தி நிறுவனமாக வகைப்படும், புதுச்சேரி மின்திறல் குழுமத்தின் எரிவாயு மின்திறன் நிலையத்திற்கான (32.5 மெ.ஊட்) 10-2-2013 நிதியாண்டிற்கான மொத்த வருவாய் தேவை மற்றும் கட்டண விகிதம் அறிவிக்கக்கூடிய மனு. மின்சார சட்டம் 2003, 62-ம் பிரிவின் கீழும் கூட்டு மின்சார ஒழுங்குமுறை ஆணைய (கட்டண விகித தீர்மானம்) நிபந்தனைகள் 2009-12ம் நிபந்தனையின் படிபடி, கோவா மாநிலம் மற்றும் ஒன்றிய ஆட்சிபரப்புக்குட்பட்ட கட்டிட மின்சார ஒழுங்குமுறை ஆணையத்திடம் தாக்கல் செய்யப்பட்டுள்ளது அண்டை அணைத்து மின் நுகர்வோர்கள் மற்றும் அதன் தொடர்புடையோர்கள் அணைவரின் கவனத்திற்காகவும் அறிவிக்கும் பொருட்டு இந்தப் பொது அறிவிக்கை வெளியிடப்படுகின்றது.

கூட்டு மின்சார ஒழுங்குமுறை ஆணையத்தின் பதிவேடுகளில் எண். 69/2012 ஆக திவு செய்யப்பட்டுள்ள மேற்கண்ட மொத்த வருவாய்தேவை மற்றும் கட்டண விகிதக் கட்டி மனுவின் சரூக்கம் கீழ்க்கண்ட அட்டவணியில் தரப்பட்டுள்ளது.

வ.எண்.	விவரம்	
1.	மொத்த உற்பத்தி (Mv)	257.00
2.	துணை நுகர்வு%	6.22
3.	நிகர உற்பத்தி (Mv)	241.015
4.	கொள்திறன் கட்டணம் (மில்லியன்)	268.35
	அ) மூலதன கட்டண மீதான வட்டி (மில்லியன்)	0.90
	ஆ) தேய்மானம் (மில்லியன்)	52.60
	இ) தேய்மானத்திற்கான முன்புதொகை (மில்லியன்)	
	ஈ) இயக்கம் & பாதுகாப்பு செலவினங்கள் (மில்லியன்)	67.91
	உ) மொல மூலதன மீதான வட்டி (மில்லியன்)	28.38
	ஊ) அன்றைய செலாவணி மாற்றத்தொகை (மில்லியன்)	
	ஈ) பங்குகளின் மீதான வட்டி (மில்லியன்)	98.56
	ஏ) வரிகள் (மில்லியன்)	
5.	மின்சக்தி/பிறாற்றத்தக்க கட்டணங்கள் (மில்லியன்)	559.44
6.	மொத்த செலவினம் (மில்லியன்) (4+5)	827.74
7.	பூனிட கட்டணம் (6/3)	43

மேற்கண்ட கேட்பு மனுவின் பிரதிகள் எண். 10, 2-ம் குறுக்குத் தெரு, ஜவகர்நகர், பூமியான்பேட்டை, புதுச்சேரி-605 005, என்ற முகவரியில் இயக்கும் புதுச்சேரி மின்திறல் குழுமம் மேலாண் இயக்குநர் அலுவலகத்திலும், நிறுவனத்தின் [www.ppcl.puducherry.gov.in](http://www.ppcl.puducherry.gov.in) என்ற இணைய தளத்திலும் கிடைக்கப்பெறலாம். விரிப்புமுள்ள நபர்கள் அலுவலக நேரங்களில் மேற்கண்ட அலுவலகத்தில் கேட்பு மனுவினை இலவசமாக பார்வையிடலாம். மேற்கண்ட கேட்பு மனுவின் பிரதியை இணைப்புகளுடன் ரூ.250/-ஐ கட்டணமாக செலுத்தி மேற்கண்ட அலுவலகத்தில் 17.02.2012 முதல் வார நாட்களில் காலை 10.00 மணி முதல் மாலை 04.00 மணி வரை பெற்றுக் கொள்ளலாம்.

புதுச்சேரி மின்திறல் குழுமம் சமர்ப்பித்துள்ள மொத்த வருவாய் தேவை மற்றும் கட்டண விகித கேட்பு மனுவின் மீதான மறுப்புகள் மற்றும் ஆலோசனைகள் கூற விரும்புவோர் தக்க துணை ஆவணங்களோடு ஐந்து நகல்கள் (1+4), அரியானா மாநிலம், குர்கானில் உள்ள உத்தியோக விகார் பகுதி-V வளர்ஜ்ய நிகுஞ்சு, HSIIDC அலுவலக வளாகத்தின் இரண்டாம் மாடியில் அமைந்துள்ள கூட்டு மின்சார ஒழுங்குமுறை ஆணையத்தின் செயலரிடம் (The Secretary, Joint Electricity Regulatory Commission for Goa & UTs, 2nd Floor, HSIIDC Office Complex, Vanija Nikunj Complex, Udyog Vihar, Phase V, Gurgaon-122 016; (Haryana) ஹரிவோ அல்லது பதிவு அஞ்சல் மூலமாகவோ 05.03.2012 தேதிக்குள் சமர்ப்பிக்கலாம். இதன் நகல் ஒன்றை எண்.10, 2-ம் குறுக்குத்தெரு, ஜவகர்நகர், பூமியான்பேட்டை, புதுச்சேரி-605 005 என்ற முகவரியில் உள்ள புதுச்சேரி மின்திறல் குழுமம் மேலாண் இயக்குநருக்கு அனுப்பத் வேண்டும்.

மேலே கூறியுள்ளபடி மறுப்பு மற்றும் ஆலோசனைகளை ஐந்து நகல்களாக (1+4) தமது பெயர், மற்றும் முழு முகவரியுடன் உறுதிமொழி பத்திரத்தோடு (Affidavit) அளித்தல் வேண்டும். மேலும் மறுப்பு தெரிவிப்போர் எந்த நிறுவனத்தின் சார்பாக அளிக்க வருகிறாரோ, அதைப்பற்றி தெளிவாக குறிப்பிட வேண்டும். மேலும் மறுப்பு மற்றும் கருத்துகள் கூற விரும்புவோர் அழைக்கப்படும் பொது நேரில் ஆஜராக தயாராக இருப்பின் அதை தெளிவாக குறிப்பிட வேண்டும். இவ்வாறாயிருப்பின் கீழ் பெறப்படும் எழுத்துப்பூர்வமான மறுப்புகளை கூட்டு மின்சார ஒழுங்குமுறை ஆணையம் பரிசீலித்து தகுதியான மறுப்புகள் அளிப்போரை நேரில் அழைத்து ஆய்வு செய்யும். அதற்கான குறிப்பிட்ட தேதிகளை ஆணையம் விரைவில் வெளியிடும்.

### மேலாண் கியக்குநர்

புதுச்சேரி மின்திறல் குழுமம், புதுச்சேரி.

No. 392/Info/AD(Press)/2011-12

DINAKARAN  
15.02.2012.





## JOINT ELECTRICITY REGULATORY COMMISSION

(FOR THE STATE OF GOA & UNION TERRITORIES)

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### NOTICE FOR PUBLIC HEARING

The Commission shall hold Public Hearing on the ARR and Tariff proposal filed by Electricity Department Puducherry for FY 2011-12 and FY 2012-13 and ARR and Tariff Proposal filed by PPCL for Puducherry Power Corporation Gas Power Generation Station (32.5 MW) at Kariakal for FY 2012-13.

#### Venue and Schedule for Public Hearing

Electricity Department Puducherry.

Date	Venue of Hearing	Time & Category
15.03.2012	Danal K. A Thangavelu Kalaiyarangam, Theitta Street, Near Municipality Marriage Hall, Karaikal, Puducherry	11:00 AM to 01:00 PM for all consumers
16.03.2012	PMSSS Hall, Laporte Street, Puducherry.	10:00 AM to 12:30 PM for domestic/ LT consumers 2:00 PM to 03:30 PM HT Industries consumers
19.03.2012	Municipal Marriage Hall, Vishnalayam, Street, Yanam	11:00 AM to 2:00 PM LT/HT Consumers
03.04.2012	Auditorium, Civil station, Mahe	11:00 AM to 2:00 PM for all consumers.

Puducherry Power Corporation Ltd. Puducherry.

15.03.2012	Danal K. A Thangavelu Kalaiyarangam, Theitta Street, Near Municipality Marriage Hall, Karaikal, Puducherry.	2:30 PM to 4:00 PM for all consumers
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**Annexure 4**

**Calculations of the monthly energy charges as part of the Review of FY 11-12(from June'11 to Oct'11)**

Month	Energy Sent out	Qty Normal	Gas Cost Normal	Qty Excess	Gas cost Excess	GCV NORMAL	GCV EXCESS	Wt Av Cost	Wt Av GCV	Revised Energy Rate	Approved Energy Rate	Variation in Energy Rate	Energy Charge to be recovered(+)/Refunded (-)E
	kWh	scm	Rs	scm	Rs	Kcal/scm	Kcal/scm	Rs/scm	kcal/scm	Rs/kwh	Rs/kwh	Rs/kwh	Rs
June (1)	17470483	2726136	24950123	63201	445531	9901.693	9894.575	8.124	9937.568	2.076	2.03	0.046	(+)803642.2
June (2)		2743686	19553465	0	0	9974.203	0						
July (1)	19845902	2718012	24955277	104988	740473	9919.68	9910.232	8.046	9895.603	2.065	2.03	0.035	(+)694606.6
July (2)		2940799	20792478	112153	787296	9874.044	9863.736						
Aug (1)	20523381	2748615	25370840	48074	341854	10149.868	10086.011	9.194	10148.770	2.301	2.03	0.271	(+)5561836
Aug (2)		Data not furnished											
Sep (1)	19913631	2671030	24604119	60378	427392	9844.652	9854.287	8.124	9858.184	2.093	2.03	0.063	(+)1254559
Sep (2)		2752227	19558601	38374	271787	9871.38	9859.805						
Oct (1)	20979819	2749692	26171804	67674	502986	9852.343	9846.965	8.479	9901.445	2.175	2.03	0.145	(+)3042074
Oct (2)		2887645	21810317	112442	841496	9948.952	9914.977						
												<b>Total</b>	<b>(+)11356718</b>

Note:

1. Data shown above pertains to first (1) and second (2) fortnight of the month
2. Energy sent out pertains to the entire month