Tariff Order:

True-up of FY 2011-12,
Review of ARR of FY 2012-13
&
Determination of Aggregate Revenue Requirement
&
Retail Tariff for FY 2013-14

For

Tripura State Electricity Corporation Limited

Case No. 1 of 2013

June 25th, 2013
TRIPURA ELECTRICITY REGULATORY COMMISSION
(TERC)

AGARTALA

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<th>Full Form</th>
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<tbody>
<tr>
<td>A&amp;G</td>
<td>Administration and General</td>
</tr>
<tr>
<td>Act</td>
<td>Electricity Act 2003</td>
</tr>
<tr>
<td>APM</td>
<td>Administered Price Mechanism</td>
</tr>
<tr>
<td>APTEL</td>
<td>Appellate Tribunal of Electricity</td>
</tr>
<tr>
<td>ARR</td>
<td>Aggregate Revenue Requirement</td>
</tr>
<tr>
<td>BADP</td>
<td>Border Area Development Program</td>
</tr>
<tr>
<td>BGTPP</td>
<td>Baramura Gas Thermal Power Plant</td>
</tr>
<tr>
<td>BPL</td>
<td>Below Poverty Line</td>
</tr>
<tr>
<td>CAGR</td>
<td>Compounded Annual Growth Rate</td>
</tr>
<tr>
<td>CEA</td>
<td>Central Electricity Authority</td>
</tr>
<tr>
<td>CERC</td>
<td>Central Electricity Regulatory Commission</td>
</tr>
<tr>
<td>CGS</td>
<td>Central Generating Stations</td>
</tr>
<tr>
<td>Ckt. km</td>
<td>Circuit Kilometer</td>
</tr>
<tr>
<td>CPI</td>
<td>Consumer Price Index</td>
</tr>
<tr>
<td>FOR</td>
<td>Forum of Regulators</td>
</tr>
<tr>
<td>FPA</td>
<td>Fuel Price Adjustment</td>
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<tr>
<td>FPPCA</td>
<td>Fuel and Power Purchase Cost Adjustment</td>
</tr>
<tr>
<td>FY</td>
<td>Financial Year</td>
</tr>
<tr>
<td>GAIL</td>
<td>Gas Authority of India Limited</td>
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<tr>
<td>GFA</td>
<td>Gross Fixed Asset</td>
</tr>
<tr>
<td>GHEP</td>
<td>Gomti Hydro-electric Project</td>
</tr>
<tr>
<td>GoT</td>
<td>Government of Tripura</td>
</tr>
<tr>
<td>HT</td>
<td>High Tension</td>
</tr>
<tr>
<td>kCal</td>
<td>Kilo calorie</td>
</tr>
<tr>
<td>kV</td>
<td>Kilo Volt</td>
</tr>
<tr>
<td>LT</td>
<td>Low Tension</td>
</tr>
<tr>
<td>MMSCMD</td>
<td>Million Metric Standard Cubic Metre per Day</td>
</tr>
<tr>
<td>MU</td>
<td>Million Unit</td>
</tr>
<tr>
<td>MW</td>
<td>Mega Watt</td>
</tr>
<tr>
<td>NEEPCO</td>
<td>North Eastern Electrical Power Corporation</td>
</tr>
<tr>
<td>NHPC</td>
<td>National Hydro Power Corporation</td>
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<tr>
<td>NTI</td>
<td>Non Tariff Income</td>
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<tr>
<td>O&amp;M</td>
<td>Operation and Maintenance</td>
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<tr>
<td>ONGCL</td>
<td>ONGC Limited</td>
</tr>
<tr>
<td>PGCIL</td>
<td>Power Grid Corporation of India Limited</td>
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<tr>
<td>PMGY</td>
<td>Pradhan Mantri Grameen Yojana</td>
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<tr>
<td>R&amp;M</td>
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<td>R-APDRP</td>
<td>Restructured Accelerated Power Development and Reform Programme</td>
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<td>RGGVY</td>
<td>Rajiv Gandhi Grameen Vidhyutikaran Yojana</td>
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<td>RGTPP</td>
<td>Rokhia Gas Thermal Power Plant</td>
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<td>Rs.</td>
<td>Rupees</td>
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<td>SPA</td>
<td>Special Plan Assistance</td>
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<td>T&amp;D</td>
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<td>TSECL</td>
<td>Tripura State Electricity Corporation Limited</td>
</tr>
<tr>
<td>WBSEDCL</td>
<td>West Bengal State Electricity Distribution Company Limited</td>
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TRIPURA ELECTRICITY REGULATORY COMMISSION AT AGARTALA

No. F.24/TERC/ _____ Dated: June 25th, 2013

Case No.: 01/2013

Before the Tripura Electricity Regulatory Commission
Vidyut Bhawan, Banamalipur, Bhutoria,
Agartala – 799001 (Tripura)

In the matter of.........................

Determination of ARR (Aggregate Revenue Requirement) and Truing up of ARR w.e.f FY 2011-12 and tariff determination for FY 2013-14 as admissible under TERC Regulation No. F.17/TERC/04 dated 11.1.2005, read with Chapter IV (Tariff) of TERC Regulation No. 17/TERC/2004/34 dated 11.1.2005 for supply of electricity in the State of Tripura by the Tripura State Electricity Corporation Limited (TSECL).

by

Tripura State Electricity Corporation Limited (TSECL) ....................Petitioner
Bidyut Bhavan, North Banamalipur
Agartala, Tripura, Pin: 799001
ORDER

The Commission in exercise of Powers vested under Section 62(1) (d) read with Section 64(3) (a) of the Electricity Act, 2003 and TERC Tariff Regulations 2004 and all other power conferred the Tripura Electricity Regulatory Commission after thorough examination of the Petition submitted by the Petitioner (TSECL) and all documents and records as submitted and all oral and written submission made by the Petitioner during Public Hearing and all objections submitted by the objectors, replies thereof from the Petitioner, and other submission made by the representatives presented and in consultation with the State Advisory Committee or otherwise information received and after due consideration of the consumers interest and sustainability of the Licensee, the Commission passes the Tariff Order and directives as detailed in the respective chapters and hereafter. The Tariff Order will be effective from 1st April, 2013 and remain valid till 31st March, 2014 or directed otherwise.

1. The licensee must submit before the Commission within 90 days:
   (a) A Petition for approval of the wheeling charge and cross subsidy surcharge along with the Allocation Matrix showing the allocation of costs between Wire Business and Retail Supply Business
   (b) Petition for revision of the inter-state tariff for Manipur and Mizoram
   (c) Statutory Audited Accounts for FY 2011-12
   (d) Capital expenditure plan for FY 2013-14

2. Function wise assets and depreciation registers including asset-wise classification duly audited by September 30th, 2012 before the Commission.

3. All the un-metered consumers should be regularized by installing proper meters by the end of FY 2013-14. The defective meters should be replaced in phase wise manner and should be completed by FY 2013-14.

4. The Commission directs the Petitioner to compute the voltage wise distribution loss at 33 kV, 11 kV and 400 Volts. The Petitioner is directed to submit the voltage wise distribution loss by September 30th, 2013.
5. That the Aggregate Revenue Requirement for FY 2013-14 for Tripura State Electricity Corporation Limited having its area of supply for intra-state consumers within the State of Tripura and other inter-state buyers is approved for Rs. 547.04 Crore. The Revenue Gap of the Licensee is approved at Rs. 118.61 Crore. Accordingly, the Commission approved an average tariff increase of 31%.

6. As regard to tariff structure, the Commission has made following additions/changes in the tariff categories in this Tariff Order in respect to the tariff categories in the previous Tariff Order:-

(i) In the last Tariff Order dated March 28th, 2012, the billing for domestic and non-domestic categories was allowed through non-telescopic route. TSECL has now proposed the billing for domestic and non-domestic categories through telescopic route. Various consumers/consumer groups have also requested for removal of non-telescopic slab tariff as the same is leading to higher cost on marginal increase in consumption over the lower slab. In view of the above, the Commission has decided to introduce telescopic tariff for Domestic and Commercial consumers, which is prevailing in many States.

(ii) The Commission has introduced a new consumer category – “Mobile Tower”. TSECL has requested to create a new Slab in the Commercial category for the Mobile Tower consumers. However, the nature of supply of this type of consumers varies from the other commercial consumers. Therefore, the Commission has created a new consumer category for the Mobile Tower consumers.

7. The State Government has already granted Rs. 40.00 Crore subsidy as communicated to the Commission vide letter no. F.2 (29)/Power/2010/510 dated June 21st, 2013 and subsidy distributed according to the specified categories/slabs as earmarked by the Government.

The Tariff Schedule for various consumer categories/slabs and terms and conditions as provided in Chapter 8 of the Tariff Order. The tariff will be effective from 1st April,
2013 and will remain valid till 31\textsuperscript{st} March, 2014 or directed otherwise. The Tariff Schedule applicable for FY 2013-14 is enclosed as “Annexure I” in this Tariff Order. The Tariff Schedule for FY 2013-14 after considering slab wise subsidy allocated by the State Government is enclosed as “Annexure II”.

The Commission found that it is deem fit to implement the revised Tariff Schedule for FY 2013-14 from April 1\textsuperscript{st}, 2013. The Petitioner has prayed for time extension for submission of the Petition on March 15\textsuperscript{th}, 2013 as the Annual Accounts for FY 2011-12 was not finalized. Moreover, the Hon’ble APTEL vide Order OP No. 1/2011 has given the judgement to revise tariff from April 1\textsuperscript{st} every year.

The Petitioner will recover the arrear billing amount due to revision of Tariff in nine (9) equal instalments on or before March 31\textsuperscript{st}, 2014.

Tripura State Electricity Corporation Limited shall issue public notification of the approved Tariff Schedule and other directions etc. in three (3) languages i.e. Bengali, English and Kokborok and compliance of the same shall be submitted to the Commission. The approved Tariff Schedule should be available with all the sub-division, division, circle and corporate offices.

This order will be placed on the website of the Commission and a copy will be sent to TSECL, Department of Power, Government of Tripura, Central Electricity Regulatory Commission and all State/Joint Electricity Regulatory Commissions.

This disposes of Case no. 01/2013 of March 15\textsuperscript{th}, 2013.

\begin{center}
Sd/-
M.R. Karmakar
(Chairman, TERC)
\end{center}
1. Background and Brief History

1.1 Background

The Tripura State Electricity Corporation Limited (hereinafter referred to as ‘TSECL’ or the ‘Petitioner’ or the “Utility”) has filed its Petition on March 15th, 2013 as per Section 62 of the Electricity Act, 2003, read with the Tripura Electricity Regulatory Commission (Tariff Regulations 2004), Tripura Electricity Regulatory Commission (Tariff Procedure) Regulations 2004 and Tripura Electricity Regulatory Commission (Conduct of Business) Regulations 2004 (hereinafter referred to as Tariff Regulations, 2004), for the truing up of FY 2011-12 based on the internal Audited Accounts (hereinafter referred to as “Annual Accounts”), Review of Aggregate Revenue Requirement (ARR) for FY 2012-13 and Aggregate Revenue Requirement (ARR) and determination of Tariff for FY 2013-14.

1.2 Tripura State Electricity Corporation Limited (TSECL)

Tripura State Electricity Corporation Limited (TSECL) has been incorporated and registered under the Companies Act.1956 on June 9th, 2004 in compliance with the MOU signed between the Ministry of Power, Government of India and Government of Tripura on August 28th, 2003. TSECL has started its operation from January 1st, 2005 with the operational control of all the assets related to Generation, Transmission, Distribution and its allied activities in the State of Tripura.

1.3 Tripura Electricity Regulatory Commission

The Tripura Electricity Regulatory Commission (hereinafter referred to as “TERC” or “Commission”) was created under the Electricity Act, 2003 (hereinafter referred to as “Act”) and vide the Government Notification No.F.1(17)/Commr/Power/2003(P-1) dated April 24th, 2004. The notification came in the Government of Tripura’s Gazette (Extra – Ordinary) on May 26th, 2004. Accordingly, the Tripura Electricity Regulatory Commission (TERC) established on May 31st, 2004 as a statutory body and as one person
Commission under the Act. The Commission, a quasi-judicial body, started functioning from the month of May 2004 as the State Regulatory Commission in Tripura with the responsibilities to discharge multifarious functions defined in the Electricity Act, 2003.

1.3.1 Functions of the Commission

As per Section 86 of the Act, the main functions of the Commission are as follows:

1. Determination of tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State;
2. Regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generation companies or licensees or from other sources through power purchase agreements for supply of power within the State;
3. Facilitate intra-state transmission and wheeling of electricity;
4. Issuance of licenses to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
5. Promote cogeneration and generation of electricity from renewable source of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of Electricity from such sources, a percentage of the total consumption of Electricity in the area of a distribution Licensee;
6. Adjudication upon the disputes between the Licensees and generating companies and to refer any dispute for arbitration;
7. Levying fees for the purposes of the Electricity Act, 2003;
8. Determination of specification of State Grid Code;
9. Enforcement of standards with respect to quality, continuity and reliability of service by Licensees;
10. Fixation the trading margin in the intra-State trading of Electricity, if considered necessary;
11. Discharge of other functions as may be assigned to it under the Act;
12. Advice the State Government on all or any of the following matters such as:

- Promotion of competition, efficiency and economy in activities of the Electricity industry in the State;
- Promotion of Investment in Electricity Industry;
- Re-organization and restructuring of Electricity Industry in the State;
- Matters concerning generation, transmission, distribution and trading of Electricity or any other matter referred to the State Commission by the State Government.
- Maintaining transparency and observant of the National Electricity Policy (NEP), National Electricity Plan and National Tariff Policy (NTP).

1.3.2 Regulations notified by the Commission

To discharge its functions as given in Section 86 of the Act, the Commission has notified the following Regulations:

1. Electricity Supply Code Regulations, 2011
5. Terms and Condition of Open Access Regulations, 2010
6. Renewable Purchase Obligation and its compliance Regulations, 2009
7. Demand Side Management Regulations, 2010
8. Procurement of Energy from Renewable Sources Regulations, 2010
9. Compliance Audit Regulations, 2010
10. Conduct of Business Regulations, 2004
11. Standard of Performance Regulations, 2004
12. Regulations for Tariff Procedure, 2004
13. Electricity Supply Code Regulations, 2004
15. Consumer Grievance Redressal Forum & Appointment of Ombudsman Regulations, 2005
16. Grant of Licensing and Terms and Conditions of Licence Regulations, 2005
17. Terms and Condition of Consultants Regulations, 2005
18. Miscellaneous Provisions relating to Petitions Fees Regulations, 2005

1.4 Tariff Orders issued by the Commission earlier

The chronology of the filing of the Tariff Petitions and issuance of the Tariff Orders from FY 2005-06 are listed below:

1.4.1 TSECL had filed its first Tariff Petition for FY 2005-06 in accordance with the Tripura Electricity Regulatory Commission (Tariff Regulations) 2004. The Commission, in exercise of the powers vested under Sections 61, 62 and 64 of the Electricity Act, 2003 carried out a detailed review of the Petition and issued its first Tariff Order on June 24th, 2005.

1.4.2 TSECL had filed its second Tariff Petition for FY 2006-07 on August 4th, 2006 in accordance with the Section 62 of the Electricity Act, 2003 and Tripura Electricity Regulatory Commission (Tariff Regulation 2004). The Commission, in exercise of the powers vested under Sections 61, 62 and 64 of the Act issued its second Tariff Order on September 14th, 2006.

1.4.3 In FY 2010-11, TSECL has submitted a Petition for Fuel & Power Purchase Cost Adjustment (FPPCA) for approval of adjustment of cost against increase of fuel (gas) cost for its own generating stations located at Rukhia and Baramura and cost incurred for procurement of power from the Central Generating Stations (CGSs). The Commission after due examination of the Petition and considering all the aspects on this matter, issued the FPPCA Order on September 13th, 2010. The Commission subsequently issued amendment order on September 22nd, 2010 after allowing subsidy to some
categories of consumer, where in the Commission allowed Rs. 1.40/unit as FPPCA charge.

1.4.4 TSECL did not file any ARR and Tariff Petition from FY 2007-08 to FY 2011-12 despite several persuasion and reminders from time to time from the Commission. Non-finalization of the Annual Accounts from FY 2007-08 to FY 2011-12 was the main reason for non-submission of the Tariff Petitions. Therefore, the actual financial health of the Petitioner could not be judged prior to FY 2011-12.

1.4.5 After a period of 6 year the Petitioner had filed their third ARR and Tariff Petition on January 20th, 2012 (Case no. 01 of 2012) along with the Truing-up Petition from FY 2007-08 to FY 2010-11. As highlighted above that in absence of the Audited Annual Accounts for FY 2005-06 and FY 2006-07, the truing-up exercise could not be completed previously. The Commission, according to Section 3 of the TERC Tariff Regulations, 2004 and Section 25(1) of the TERC Conduct of Business Rule, 2004 also undertook the suo-moto proceedings for truing-up of FY 2005-06 and FY 2006-07. The Commission, in exercise of the powers vested under Sections 61, 62 and 64 of the Act and all other powers enabling it in this regard and after taking into consideration the submissions made by TSECL, the objections by various stakeholders, response of TSECL, issues raised during the Public Hearing and all other relevant material, issued the Third Tariff Order for TSECL on March 28th, 2013.

The Commission, while processing the Tariff Order for FY 2012-13 had noted few improvements in the internal system of the Petitioner such as preparation of Audited Accounts, monthly MIS reports etc. However, a number of organizational drawbacks, which were inherited from the erstwhile Department of Power also came into the Commission’s notice. For example, there was lack of skilled manpower in the key functional areas such as operation and maintenance (O&M), billing and collection departments, lack of scientific planning in energy loss reduction, billing and collection in-
efficiencies. All these factors gradually crippling the financial health of the Petitioner. To overcome these drawbacks, the Commission, in the last Tariff Order has issued a number of Directives to the Petitioner.

1.5 Admission of current Petition and Public Hearing Process

1.5.1 Admission hearing and admission of the current Petition


On preliminary verifications of the ARR Petition, the Commission has found that all the facts presented the internal Audited Accounts of FY 2011-12 has not considered by the Petitioner in its Truing-up Petition. Moreover, as per the TERC Tariff Regulations 2004 and TERC Tariff Procedure Regulations 2004 a number of data items that are important to process the Tariff Petition were not submitted by the Petitioner. Hence, the Commission has asked the Petitioner to follow the relevant Regulations and internal Audited Accounts and accordingly to re-compute the revenue gap/surplus and the retail Tariff Proposal for FY 2013-14. Subsequently, the Petitioner has filed the supplementary Petition on March 26th, 2013, alongwith revised revenue gap/surplus and the retail Tariff Proposal for FY 2013-14.

On verification of the Supplementary Petition, the Commission has found the most the information as desired by the Commission were submitted by the Petitioner. On that basis, the Commission has scheduled the admission hearing on April 1st, 2013. During the Admission Hearing, the Commission has specifically enquired about the Petitioner’s preparedness regarding implementation of the telescopic tariff in FY 2013-14. TSECL has appraised the Commission regarding their preparedness on implementation of the telescopic tariff in FY 2013-14.
On basis of the data submitted and replies of the Petitioner furnished during the Admission Hearing, the Commission admitted the Tariff Petition for FY 2013-14 (Case No.1 of 2013).

1.5.2 Public hearing process

After admission of the ARR Petition, the Commission in accordance with Section 64 of the Electricity Act, 2003 and Clause 10 of the TERC (Tariff Procedure) Regulations, 2004, has directed TSECL to publish its Tariff Petition in abridged form in the newspapers and in their website.

Accordingly, the application was published simultaneously on April 3rd and 4th, 2013 in the leading newspapers in Tripura. The Petitioner also posted the public notice and the Tariff Petition for FY 2013-14 in their website (www.tsecl.com). The publication invited the attention of all interested parties, stakeholders and the members of the public for determination of tariff of TESECL for FY 2013-14 and requested for submission of suggestions, objections and comments, if any, on the Tariff Petition to the Commission by April 24th, 2013.

The following consumers / consumer’s representatives, filed their objections in response to the Public Notice as shown below.

Table 1-1: List of consumers filed objections in writing

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name and address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Professor Mihir Kanti Deb, North of UCO Bank TRTC Branch, Thakur Pally Road, Krishnanagar, Agartala</td>
</tr>
<tr>
<td>2.</td>
<td>Shri Jadu Gopal Paul, North Banamalipur, South side of Bharati Press</td>
</tr>
<tr>
<td>3.</td>
<td>Ice cream and Ice Slab Manufacturing Welfare Society, Durga Chowmuhani, P.O. Ramnagar, P.S. West Agartala, West Tripura</td>
</tr>
<tr>
<td>4.</td>
<td>Subrata Bhowmik, East Sibnagar, P.O. Agartala College, Agartala – 799004, West Tripura</td>
</tr>
</tbody>
</table>

The Commission examined the objections received from the objectors and fixed the date for public hearing on May 10th, 2013. Subsequently, the Commission has invited the objectors to take part in the public hearing process and present their views in person before the Commission.
The Commission, subsequently has published the Notice for Public Hearing in the following newspapers on April 27th, 2013.

1. Dainik Sambad (Bengali)
2. Daily Desher Katha (Bengali)
3. Tripura Darpan (Bengali)
4. Syandan (Bengali)
5. Ajker Fariad (Bengali)
6. Aajkal Tripura (Bengali)
7. Pratibadi Kalam (Bengali)
8. Chini Kok (Kokbarak)
9. Tripura Observer (English)
10. Tripura Times (English)
11. Dainik Ganadut (Bengali)

The public hearing was conducted at the Commission’s Office in Agartala on May 10th, 2013.

In the public hearing the Objector no. 1 and 2 were present to highlight their objections and suggestions before the Commission.

In addition to the consumers filed their objections in writing, the following four consumers had file their objections orally before the Commission during Public Hearing.

**Table 1-2: List of consumers filed objections orally**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name and address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Shri Ratan Krishna Basak, Subhas Nagar, AMC Ward No. 31</td>
</tr>
<tr>
<td>2.</td>
<td>Shri Ashim Kumar Roy, Krishnagar, Bijoy Kumar Chowmuhani</td>
</tr>
<tr>
<td>3.</td>
<td>Shri Ramdhan Roy, Krishnagar, Bijoy Kumar Chowmuhani</td>
</tr>
<tr>
<td>4.</td>
<td>Shri Abinash Chandra Das, 79 Tilla, Post Office – Kunjabon, Agartala</td>
</tr>
</tbody>
</table>

Although, the aforementioned four consumers have not submitted their objections and suggestions as per TERC Regulations, their objections and suggestions on the Tariff Petition were heard and noted by the Commission.
Objections and suggestions received from the objectors on the Tariff Petition filed by TSECL have been dealt with separately in Chapter 3.

1.6 Interaction with the Petitioner

The Commission conducted detailed scrutiny of the petition submitted by the Petitioner and observed certain deficiencies. Accordingly, deficiency letters were issued to the Petitioner from time to time. Further, the Commission directed for additional information/clarifications from the Petitioner as and when required. The Petitioner submitted the additional information through various letters, as listed in the Table 1-3.

The Commission interacted regularly with the Petitioner to seek clarifications and justifications on various issues essential for the analysis of the petition. The Commission also conducted multiple technical validation sessions with the Petitioner during which various issues related to the Tariff Petition were discussed. Subsequently, the Petitioner submitted replies to the issues raised in these sessions.

The Petitioner submitted its replies, as shown below, in response to the queries raised by the Commission, which have been considered for approval of the ARR of the petitioner:

Table 1-3: List of Correspondence with TSECL

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Date</th>
<th>Letter No.</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>April 27\textsuperscript{th}, 2013</td>
<td>F.24/TERC/09/92-93</td>
<td>Submission of data</td>
</tr>
<tr>
<td>2.</td>
<td>April 27\textsuperscript{th}, 2013</td>
<td>F.24/TERC/09/75</td>
<td>Submission of various information</td>
</tr>
<tr>
<td>3.</td>
<td>April 26\textsuperscript{th}, 2013</td>
<td>F.24/TERC/09/70-92</td>
<td>Release of committed Grant/ Subsidy to TSECL by the Government</td>
</tr>
<tr>
<td>4.</td>
<td>April 25\textsuperscript{th}, 2013</td>
<td>F.24/TERC/09/64-65</td>
<td>Submission of objection/comment by the objectors with respect to Tariff Petition for 2013-14</td>
</tr>
<tr>
<td>5.</td>
<td>April 23\textsuperscript{rd}, 2013</td>
<td>F.24/TERC/09/897</td>
<td>Submission of additional information</td>
</tr>
<tr>
<td>Sl. No</td>
<td>Date</td>
<td>Letter No.</td>
<td>Subject</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------</td>
<td>--------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>April 18th, 2013</td>
<td>F.24/TERC/09/64-65</td>
<td>Submission of objection/comment by the objectors with respect to Tariff Petition for 2013-14</td>
</tr>
<tr>
<td>7</td>
<td>April 17th, 2013</td>
<td>F.24/TERC/09/49-51</td>
<td>Requirement of additional information with respect to Tariff Petition for 2013-14</td>
</tr>
<tr>
<td>8</td>
<td>April 16th, 2013</td>
<td>F.24/TERC/09/45</td>
<td>Details of billing amount of TSECL during 2012-13</td>
</tr>
</tbody>
</table>

1.7 **Approach of this Order**

1.7.1 **Truing-up for FY 2011-12**

The Petitioner has submitted the Truing-up Petition for FY 2011-12 based on the internal audited accounts for FY 2011-12. The Petitioner has informed the Commission that the statutory audit of the accounts for FY 2011-12 were under process and the same would take time to finalize. The Commission has observed that the tariff determination process for FY 2013-14 has already delayed by four months and waiting for finalization of the statutory audited accounts would delay the tariff determination process further. In the view, the Commission has decided to undertake the Truing-up exercise for FY 2011-12 based on the internal audited accounts of the Petitioner and may re-visit the approvals in the Truing-up, when the statutory audited accounts for FY 2011-12 will be available before the Commission.

1.7.2 **Review for FY 2012-13**

Review of FY 2012-13 has based on the information furnished by TSECL and prudence check made by the Commission on the same.
1.7.3 ARR for FY 2013-14

Determination of ARR for FY 2013-14 has been based on provisions of the TERC Tariff Regulations 2004.

1. Estimation of fuel purchase cost has been based on the approved generation and per unit fuel cost approved by the Commission for FY 2013-14.
2. Estimation of power purchase cost has been based on the allocation of the State and per unit power purchase cost approved by the Commission for FY 2013-14.
3. Energy sales to the intra-state and inter-state have been based on the actual trends of energy sales observed in the previous years.
4. Estimation of the Operation and Maintenance (O&M) expenses has been based on the Wholesale Price Index (WPI) and Consumer Price Index (CPI).
5. Other expenses such as return on equity and interest on working capital have been approved as per the norms.

1.8 State Advisory Committee

The Tariff Proposal of TSECL was placed before the State Advisory Committee (SAC) in its meeting held on April 5th, 2013 at the Commission’s Office. The Committee members were briefed on the Truing-up Petition for FY 2011-12, Review of FY 2012-13 and ARR and Tariff Proposal for FY 2013-14. The SAC members also pointed out few anomalies in the Tariff Schedule and desired that the Commission should verify all the elements of the ARR before issuing the Tariff Order for FY 2013-14. All the members raised their apprehensions on 86.12% Tariff increase proposed by the Petitioner and requested the Commission to look into the reasonableness of the same. Thus, the Commission has taken all the necessary steps to ensure that the due process, as contemplated under the Act and Regulations framed by the Commission are followed and adequate opportunity given to all stakeholders in presenting their views on the Tariff Petition submitted by TSECL.
1.9 Contents of this Order

This order is divided into eight chapters, as under:

1. The First Chapter provides a background of the Petitioner, the petition and public hearing process and the approach adopted for this order.

2. The Second Chapter contains a summary of TSECL’s Truing-up and ARR Petition.

3. The Third Chapter provides a brief account of the public hearing process, including the objections raised by various stakeholders, TSECL’s response and the Commission’s views on the same.

4. The Fourth Chapter deals with the ‘Truing up’ for FY 2011-12.


6. The Sixth Chapter deals with Annual Revenue Requirement (ARR) for FY 2013-14.

7. The Seventh Chapter deals with Commission’s observations and directives.

8. The Eighth Chapter highlights the Tariff Philosophy and Tariff approved by the Commission with analysis and annotations.
2. Summary of True-up for FY 2011-12, Review for FY 2012-13 and ARR Petition for FY 2013-14

2.1 True-up for FY 2011-12

The summary of Aggregate Revenue Requirement (ARR) approved in the previous Tariff Order and now claimed by TSECL in the Truing-up for FY 2011-12 has shown in the table below.

**Table 2-1: ARR Approved in the Tariff Order for FY 2011-12 and claimed in the Truing-up for FY 2011-12**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>TSECL proposal in the Truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuel Cost</td>
<td>177.03</td>
<td>183.22</td>
</tr>
<tr>
<td>2</td>
<td>Power purchase cost</td>
<td>179.68</td>
<td>204.28</td>
</tr>
<tr>
<td>3</td>
<td>Employee expenses</td>
<td>85.00</td>
<td>85.98</td>
</tr>
<tr>
<td>4</td>
<td>Repairs and maintenance expenses</td>
<td>17.40</td>
<td>14.69</td>
</tr>
<tr>
<td>5</td>
<td>Administration and general expenses</td>
<td>10.21</td>
<td>13.03</td>
</tr>
<tr>
<td>6</td>
<td>Interest on working capital</td>
<td>0.00</td>
<td>9.99</td>
</tr>
<tr>
<td>7</td>
<td>Depreciation</td>
<td>24.31</td>
<td>27.92</td>
</tr>
<tr>
<td>8</td>
<td>Interest and finance charges</td>
<td>0.35</td>
<td>1.87</td>
</tr>
<tr>
<td>9</td>
<td>Return on equity</td>
<td>16.52</td>
<td>17.49</td>
</tr>
<tr>
<td>10</td>
<td><strong>Total ARR</strong></td>
<td><strong>510.51</strong></td>
<td><strong>558.47</strong></td>
</tr>
<tr>
<td>11</td>
<td>Less: Non-tariff income</td>
<td>30.91</td>
<td>39.67</td>
</tr>
<tr>
<td>12</td>
<td>Less: Prior period expenses</td>
<td>0.00</td>
<td>0.54</td>
</tr>
<tr>
<td>13</td>
<td><strong>Net ARR</strong></td>
<td><strong>479.59</strong></td>
<td><strong>518.26</strong></td>
</tr>
<tr>
<td>14</td>
<td>Revenue from sale of power</td>
<td>368.44</td>
<td>348.22</td>
</tr>
<tr>
<td>15</td>
<td>Subsidy</td>
<td>134.22</td>
<td>40.00</td>
</tr>
<tr>
<td>16</td>
<td><strong>Revenue (Gap)/Surplus</strong></td>
<td><strong>23.07</strong></td>
<td><em>(130.91)</em></td>
</tr>
</tbody>
</table>

2.2 Review for FY 2012-13

The summary of Aggregate Revenue Requirement (ARR) approved in the Tariff Order for FY 2011-12 and now claimed in Review of ARR for FY 2012-13 has shown in the Table below.
2.3 ARR for FY 2013-14

The summary of Aggregate Revenue Requirement (ARR) proposed for FY 2013-14 has shown in the Table below.

Table 2-3: Proposed ARR for FY 2013-14

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Particulars</th>
<th>TSECL proposal in the ARR for FY 2013-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuel Cost</td>
<td>195.24</td>
</tr>
<tr>
<td>2</td>
<td>Power purchase cost</td>
<td>165.90</td>
</tr>
<tr>
<td>3</td>
<td>Employee expenses</td>
<td>113.14</td>
</tr>
<tr>
<td>4</td>
<td>Repairs and maintenance expenses</td>
<td>22.81</td>
</tr>
<tr>
<td>5</td>
<td>Administration and general expenses</td>
<td>15.56</td>
</tr>
<tr>
<td>6</td>
<td>Interest on working capital</td>
<td>11.30</td>
</tr>
<tr>
<td>7</td>
<td>Depreciation</td>
<td>49.04</td>
</tr>
<tr>
<td>8</td>
<td>Interest and finance charges</td>
<td>2.47</td>
</tr>
<tr>
<td>9</td>
<td>Return on equity</td>
<td>19.40</td>
</tr>
<tr>
<td>10</td>
<td>Total ARR</td>
<td>556.31</td>
</tr>
<tr>
<td>11</td>
<td>Less: Non-tariff income</td>
<td>39.67</td>
</tr>
<tr>
<td>12</td>
<td>Less: Prior period expenses</td>
<td>39.67</td>
</tr>
<tr>
<td>13</td>
<td>Net ARR</td>
<td>516.64</td>
</tr>
<tr>
<td>14</td>
<td>Revenue from sale of power</td>
<td>386.31</td>
</tr>
<tr>
<td>15</td>
<td>Subsidy</td>
<td>40.00</td>
</tr>
<tr>
<td>16</td>
<td>Previous year’s surplus</td>
<td>0.00</td>
</tr>
<tr>
<td>17</td>
<td>Revenue (Gap )/Surplus</td>
<td>(90.33)</td>
</tr>
</tbody>
</table>
The Petitioner has proposed 86.12% escalation on the existing tariff rates.

2.4 TSECL’s request to the Commission:

TSECL has requested the Commission to:

a. Admit the Petition;

b. Examine the proposal submitted by the Petitioner for a favorable dispensation as detailed in the enclosed proposal;

c. Consider the submissions and allow the True-Up for FY 2011-12, revise estimate for FY 2012-13 and approve the tariff for FY 2013-14;

d. Pass suitable orders for implementation of the tariff proposals for the FY 2013-14 for making it applicable from FY 2013-14 onwards.

e. Approve the terms and conditions of tariff and various other matters as proposed in this petition and the proposed changes therein.

f. Condone any inadvertent omissions/ errors/ shortcomings and permit TSECL to add/ change/ modify / alter this filing and make further submissions as may be required at a future date.

g. Pass such orders as the Commission may deem fit and proper, keeping in view the facts and circumstances of the case.
3. Objections raised by various customers/objectors, TSECL’s response and the Commission’s views

In response to the public notice inviting objections/suggestions of the stakeholders on the Petition, four consumers/consumer representatives filed their objections and suggestions in writing. The objections/suggestions, the responses and submissions of the Petitioner thereof along with the views of the Commission are given below. Submissions and responses, pertaining to specific and detailed aspects of tariff, have been taken into account in the formulation of an equitable tariff, balancing the interests of various stakeholders, though, those might not find place in this chapter.

**Objection 1:** Professor Mihir Kanti Deb has highlighted that TSECL has proposed introduction of the Telescopic Tariff structure in an ambiguous format and it is difficult to understand how the Telescopic Tariff can be dovetailed with a non-Telescopic Tariff. The objector has raised specific query on how the Fixed Charges will be recovered from the consumers. Further, the objector has suggested that the Tariff Structure of the West Bengal State Electricity Distribution Company Limited (WBSEDCL) should be followed to determine the Telescopic Tariff of TSECL.

**Response of the Petitioner:** The Petitioner has submitted that the Telescopic Tariff Structure proposed in the Petition is clear and understandable. The Petitioner has given the following example on the same.

<table>
<thead>
<tr>
<th>A. Domestic</th>
<th>Proposed Fixed Charges</th>
<th>Unit</th>
<th>Proposed Energy Charges</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slab 1: 0-50 unit</td>
<td>100</td>
<td>Per cons per month</td>
<td>4.50</td>
<td>Rs./kWh</td>
</tr>
<tr>
<td>Slab 2: 51-150 unit</td>
<td>150</td>
<td>Per cons per month</td>
<td>5.75</td>
<td>Rs./kWh</td>
</tr>
<tr>
<td>Slab 3: 151-300 unit</td>
<td>200</td>
<td>Per cons per month</td>
<td>6.75</td>
<td>Rs./kWh</td>
</tr>
<tr>
<td>Slab 4: above 300 units</td>
<td>200</td>
<td>Per cons per month</td>
<td>7.50</td>
<td>Rs./kWh</td>
</tr>
</tbody>
</table>
If a consumer consumes 330 units during a month then the consumer will be billed Fixed Charge (FC) of Rs. 200 based on the actual consumption of that month and Energy Charge (EC) of Rs. 2037.50. The slab wise breakup of Energy charge is shown below:

<table>
<thead>
<tr>
<th>Unit consumed</th>
<th>Proposed Energy Charges (Rs./Unit)</th>
<th>Energy Charges billed (Rs.) (=1X2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 units</td>
<td>4.50</td>
<td>225.00</td>
</tr>
<tr>
<td>100 units</td>
<td>5.75</td>
<td>575.00</td>
</tr>
<tr>
<td>150 units</td>
<td>6.75</td>
<td>1012.50</td>
</tr>
<tr>
<td>30 units ((330- (50+100+150))</td>
<td>7.50</td>
<td>225.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>2037.50</strong></td>
</tr>
</tbody>
</table>

**Commission’s View:** Introduction of Telescopic Tariff for FY 2013-14 as per the proposal submitted by the Petitioner is agreeable to the Commission. The Commission also agrees with the clarification furnished by the Petitioner in response to the objection raised by the objector as shown above.

**Objection 2:** Professor Mihir Deb has objected on the proposed tariff increase of 86.12%. Further, the Petitioner has not considered Rs.80 Crore received from the Government of Tripura as revenue subsidy in FY 2011-12 and FY 2012-13.

**Response of the Petitioner:** The Petitioner has submitted that the proposed tariff has been based on the ARR determined according to the provisions in the Tariff Regulations of the Commission. The Petitioner has further submitted that the revenue subsidy of Rs. 80 Crore received from the State Government for FY 2011-12 and FY 2012-13 have been considered in its Supplementary Petition.

**Commission’s View:** The content of the objectors’ submission before the Commission about 86.12% tariff increase as well as non-inclusion of the subsidy amount of Rs. 40 Crore each for FY 2011-12 and FY 2012-13 has been noted by the Commission. The Petitioner has clarified before the Commission that Rs. 80 Crore received as revenue subsidy received from the
State Government has been accounted in the Supplementary Petition submitted before the Commission on March 25th, 2013. The Petitioner also claimed that the Tariff Schedule enclosed in Table 62 of the Supplementary Petition has been re-casted on account of the subsidy received from the State Government. The Commission, however, observed that the Petitioner has not revised the proposed tariff rates in the Supplementary Petition on account of the subsidy received from the State Government for FY 2011-12 and FY 2012-13. The Commission has noted the whole matter and has paid due attention in this Order.

Objection 3: Professor Mihir Deb has suggested that Fixed Charge should remain same for all the tariff categories.

Response of the Petitioner: The Petitioner has submitted that Fixed Charge has kept different for different slabs to reflect the Fixed Charge due to higher connected load of the consumers. In addition, to align the Fixed Charge to the structure of West Bengal it will require to increase the Fixed Charge of the lower tariff band. This may put additional financial burden on a large number of consumers.

Commission’s View: The Commission has noted the reply furnished by the Petitioner. The Commission has looked into this aspect, while fixing the Fixed Charge for FY 2013-14.

Objection 4: Professor Mihir Deb has suggested that power purchase from Palatana should be considered in the Tariff Order for FY 2013-14.

Response of the Petitioner: The Petitioner has submitted that at the time of preparation of the Petition, the feasibility of early completion of this project was very limited. Hence, this project was not considered in the power purchase. The Petitioner has further submitted that the Commission can consider the revised power purchase plan if the Commission in its best judgement expects operationalization of this project in FY 2013-14.
Commission’s View: The Commission is reviewing the progress of work of the Palatana project. The project has already started its trial run from the second week of May 2013. The Commission expects that first unit of Palatana will run its commercial operation from October 2013. The Commission accordingly considered power purchase from Palatana for six months in FY 2013-14.

Objection 5: Professor Mihir Deb has objected that Passbook should not be discontinued.

Response of the Petitioner: The Petitioner has submitted that due to the implementation of IT systems and advance billing systems, the pass book used earlier has been discontinued as it was creating redundancy, restricting transaction time and adding operational cost for the utility.

Commission’s View: The Commission is in agreement with the Petitioner. A letter (No. F.38/363-66) with respect to discontinuation of the Pass Book has issued by the Commission on August 31\textsuperscript{st}, 2009

Objection 6: The Ice Cream and Ice Slab Manufacturing Welfare Society of Tripura has objected the proposed tariff increase for FY 2013-14.

Response of the Petitioner: The Petitioner in its reply has submitted that the proposed tariff increase for FY 2013-14 is based on the ARR determined according to the provisions in the Tariff Regulations of the Commission. The Petitioner has further submitted that if the tariff increase is not introduced then the revenue gap of TSECL will increase to an unsustainable level. Hence, the Petitioner has requested the Commission to approve the proposed tariff increase.

Commission’s View: The Commission has noted the objection raised by the objector as well as the reply furnished by the Petitioner. The Commission has scrutinize all the components of ARR and approve them only after prudence
check. The need for tariff increase has been decided on the cumulative revenue gap determined by the Commission for FY 2013-14.

Objection 7: The Ice Cream and Ice Slab Manufacturing Welfare Society of Tripura has proposed to create a separate consumer category for Ice Cream/Ice Slab factories.

Response of the Petitioner: The Petitioner in its reply has quoted the extracts of the Section 62(3) of the Electricity Act 2003, which states that:

“The Appropriate Commission shall not, while determining the tariff under this Act, show undue preference to any consumers of electricity but may differentiate according to the consumer’s load factor, power factor, voltage, total consumption of electricity during any specified period or the time at which the supply is required or the geographical position of any area, the nature of supply and the purpose for which the supply is required.”

The Petitioner has pointed out that the objector has not submitted any basis for creation of new consumer category in accordance with the provisions of the Act.

Commission’s View: The Petitioner has not proposed any separate consumer category for Ice Cream/Ice Slab factories in its Tariff Petition for FY 2013-14. However, the Commission has noted the suggestion made by the objector on this matter. TSECL is directed to examine whether the Ice Cream Factories can be treated as small scale industry and the State Government can allow special subsidy for them.

Objection 8: Shri Jadu Gopal Paul has objected on the proposed Tariff increase of 86.12%.

Response of the Petitioner: The Petitioner in its reply has submitted that the proposed tariff increase for FY 2013-14 is based on the ARR determined according to the provisions in the Tariff Regulations of the Commission. The
Petitioner has further submitted that if the tariff increase is not introduced then the revenue gap of TSECL will increase to an unsustainable level. Hence, the Petitioner has requested the Commission to approve the proposed tariff increase.

**Commission’s View:** The Commission has noted the objection raised by the objector as well as the reply furnished by the Petitioner. The Commission has scrutinized all the components of ARR. After prudence check of all the components, the Commission has approved the ARR for FY 2013-14. The need for tariff increase has been decided on the cumulative revenue gap determined by the Commission for FY 2013-14.

**Objection 9:** Shri Jadu Gopal Paul has objected to increase in power purchase cost, while suggested to decrease electricity theft in the State.

**Response of the Petitioner:** The Petitioner has submitted that the power purchase cost for FY 2013-14 is based on the its firm allocation from the central generating stations of the North Eastern Electric Power Corporation (NEEPCO) and NHPC Ltd.

The Petitioner has further submitted that in order to curb theft the department has constituted Vigilance Squad headed by DSP to undertake regular raids and to bring charges against any errant consumer. The Government of Tripura also setup 8 nos. of Special Court to deal with such matters.

**Commission’s View:**

(i) The objectors concern on electricity theft and the reply furnished by the Petitioner have been noted by the Commission. The Commission in its previous Tariff Order has directed the Petitioner to take appropriate steps to reduce electricity theft. The Commission once again directs the Petitioner to exercise maximum efforts to reduce the theft cases. The Petitioner should follow a practice of publishing monthly bulletin on the newspaper on the number of theft cases found and penalty realized from them.
(ii) The Commission has already directed the Petitioner to disconnect all the hook lines in a phase wise manner. Further, the Commission has also requested the State Government to provide Police force during such operations.

(iii) The TSECL should identify the localities, where the theft cases are high and conduct regular vigilance check in these localities to minimize electricity theft.

Objection 10: Shri Jadu Gopal Paul has suggested one time payment of meter rent.

Response of the Petitioner: The Petitioner has submitted that one time charge of meter rent will create huge burden on the consumer during that month. Hence, requested the Commission to allow the Petitioner to take meter rent on monthly basis.

The Petitioner has further submitted that the meters provided in the consumers premises are the property of the Petitioner for recording monthly energy consumption of the consumers. TSECL being the licensee is entitled to recover charges like meter rent from the consumers. The Petitioner will also replace the meters, if it is found defective as reported by the consumers after necessary checking and testing. Therefore, one time recovery of the cost of meter is not permissible under the existing norms.

Commission’s View: Payment of monthly meter rent is an affordable option for the consumers. Therefore, the Commission has decided to continue with monthly meter rent system.

Objection 11: Shri Jadu Gopal Paul has suggested that billing period should be 1st week of every month.

Response of the Petitioner: The Petitioner has submitted that it is not feasible as there are different groups of consumers and utility uses staggered
meter reading to generate the bills of consumers. In addition, synchronising all meter reading for a particular week is possible in theory but impossible in practice due to economic and operational constraints.

**Commission’s View:** The Commission has noted the suggestion of the objector and reply furnished by the Petitioner. The Commission is in agreement with the reply furnished by the Petitioner.

**Objection 12:** Shri Jadu Gopal Paul has objected that TSECL does not maintain energy balance.

**Response of the Petitioner:** The Petitioner has clarified that the energy balance is maintained by them and is reported in Table 8 (FY 2011-12) and Table 34 (project for FY 2012-12 and FY 2013-14) of the Tariff Petition.

**Commission’s View:** The Commission has noted the suggestion of the objector and reply furnished by the Petitioner. The Commission agrees with the reply furnished by the Petitioner.

**Objection 13:** Shri Subrata Bhowmik has pointed out that the gist published on the Tariff Proposal for FY 2013-14 is not very clear for the non-technical persons.

**Response of the Petitioner:** The Petitioner has submitted that the notification has been published as per the TERC Regulations in force and with due approval of the Commission.

**Commission’s View:** The Commission in its Tariff Procedure Regulations 2004 has notified the details to be published in the gist. The Petitioner accordingly published the gist in the newspapers. The Commission also directed the Petitioner to upload the Tariff Petition in its website, so that any person can download and review the Tariff Petition at free of cost. Therefore, the objector’s disagreement on this matter is not correct. However, the
Commission shall make efforts to reflect more clarity in the gist of the Petition for the benefit of the consumers in the ensuing year.

Objection 14: Shri Subrata Bhowmik has suggested that the retail tariff should be revised after commencement of the Palatana and Monarchak power plants.

Response of the Petitioner: The Petitioner has submitted that it is liable to file the Tariff Petition before the Commission in every year indicating current year expenditure – income and annual revenue requirement for ensuring year which is further subject to true-up as and when the Commission feel essential. Therefore, the Petitioner cannot wait for the commencement of generation from the above two projects.

Commission’s View: The Hon’ble APTEL in its Judgement OP No. 1 of 2011 has issued the following directions to the State Electricity Regulatory Commissions.

“(i) Every State Commission has to ensure that Annual Performance Review, true-up of past expenses and Annual Revenue Requirement and tariff determination is conducted year to year basis as per the time schedule specified in the Regulations”.

“(ii) It should be the endeavour of every State Commission to ensure that the tariff for the financial year is decided before 1st April of the tariff year…..”

The TERC Tariff Regulations 2004 also states that:
All Generating Companies and licensee shall submit the petition to the Commission along with the details of calculation with relevant information and particulars in line Tripura Electricity Regulatory Commission (Conduct of Business) Regulation, 2004.
The Petition should be filed at least 120 days in advance from the date of proposed effective date of revised tariff.”

The Commission views that the tariff determination is a time bound exercise. As per the prevailing Regulations, the tariff determination process should start in a manner so that sufficient time can be given to the Commission to determine the retail tariff and implement the same from April 1st of the tariff year.

In light of the above the objector’s suggestion to wait for the commencement of the Palatana and Monarchak power plants and then determine the retail tariff for FY 2013-14 is not reasonable.

Objection 15: Shri Subrata Bhowmik has suggested that Tripura is a backward State, the Central Government should provide subsidy, especially for gas consumption as the gas prices has risen by 2.5 times in the recent years.

Response of the Petitioner: The gas prices are a subject matter of the Central Government and appropriate Government agencies. This issue is beyond the purview of the current Petition and TSECL’s control. However, the Government of Tripura has made several requests to the Government of India to roll back the earlier prices.

Commission’s View: The gas pricing is a subject matter of the Central Government and beyond the jurisdiction of the Commission. The Government of Tripura was requested to take up this issue with the appropriate authorities. In fact, the Government of Tripura has made several attempts earlier and represented the case before the concern Central Government authorities. The outcome of the same is still not known.

Objection 16: Shri Subrata Bhowmik has highlighted that there are a number reasons for non-recovery of expenses such as (a) lack of maintenance, (b)
electricity theft, (c) large number of defective meters and (d) lower recovery from the BPL consumers.

**Response of the Petitioner:** The Petitioner has submitted that it has taken the best effort to undertake due maintenance, replacement of defective meters, arresting theft of electricity within its available resources. The losses as well as the expenses of the Petitioner is to be recovered by means of tariff adjustments. The State Government and the consumers are the only source of revenue for the Petitioner in order to provide quality power supply. The Government of Tripura is always providing essential subsidy to the BPL and other poor consumers.

**Commission’s View:** The high level of losses of the Petitioner is also a matter of concern for the Commission. In addition to the reasons highlighted by the objector there are other reasons for such losses such as poor billing and collection efficiencies. The Commission in its previous Tariff Order has directed the Petitioner to take every possible step to reduce its losses and submit a long term plan for loss reduction.

The Commission views that the Petitioner has to rely on its own resources to become self-sustainable in the longer time-period. It cannot depend on the financial assistance from the State Government every year. Therefore, the Petitioner is again directed by the Commission to take every possible step to reduce its losses. The Commission’s directive in this regard is given in the Directives Chapter.

**Objection 17:** Shri Subrata Bhowmik has objected the proposed tariff increase of the Petitioner.

**Response of the Petitioner:** The Petitioner in its reply has submitted that the proposed tariff increase for FY 2013-14 is based on the ARR determined according to the provisions in the Tariff Regulations of the Commission. The Petitioner has further submitted that if the tariff increase is not introduced then
the revenue gap of TSECL will increase to an unsustainable level. Hence, the Petitioner has requested the Commission to approve the proposed tariff increase.

**Commission’s View:** The Commission has noted the objection raised by the objector as well as the reply furnished by the Petitioner. The Commission has scrutinized all the components of ARR. After prudence check of all the components, the Commission has approved the ARR for FY 2013-14. The need for tariff increase has been decided on the cumulative revenue gap determined by the Commission for FY 2013-14.

In addition to the aforementioned written objections submitted by the objectors, four consumers i.e. Shri Ratan Krishna Basak, Shri Ashim Kr. Roy, Shri Ramdhan Roy and Shri Abinash Chandra Das have made their oral submission during the Public Hearing. The main objection of these four objectors was on the proposed tariff increase for FY 2013-14. The Commission has heard their objections/suggestions during the Public Hearing.
4. Truing up for FY 2011-12

The Commission had approved the Aggregate Revenue Requirement (ARR) of TSECL for FY 2011-12 in the previous Tariff Order. The TERC Tariff Regulations 2004 provide for truing up of all the parameters of the ARR at the end of each year based on the audited accounts and prudence check by the Commission.

4.1 Truing-up for FY 2011-12

4.1.1 Energy sales

Petitioner’s submission

The Petitioner has submitted the category-wise actual energy sales for FY 2011-12, which is shown in the Table below.

<table>
<thead>
<tr>
<th>Consumer Category</th>
<th>Energy sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>16.66</td>
</tr>
<tr>
<td>Domestic</td>
<td>324.41</td>
</tr>
<tr>
<td>Commercial</td>
<td>60.35</td>
</tr>
<tr>
<td>Industrial (LT &amp; HT)</td>
<td>31.39</td>
</tr>
<tr>
<td>Bulk Supply</td>
<td>88.65</td>
</tr>
<tr>
<td>Tea garden</td>
<td>0.61</td>
</tr>
<tr>
<td>Public Water works &amp; Lighting</td>
<td>102.11</td>
</tr>
<tr>
<td><strong>Total (intra-state) sale</strong></td>
<td><strong>624.18</strong></td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Commission, in the Tariff Order dated March 28th, 2013 had approved the total energy sales of 633.33 MU for FY 2011-12. As against the same, the Petitioner has shown category-wise sales of FY 2011-12 at 624.18 MU. The actual sales are marginally lower by 9.15 MU.

The Commission approves the energy sales of 624.18 MU in the Truing-up for FY 2011-12 as detailed in the Table below.
Table 4-2: Approved category-wise intra-state energy sales for FY 2011-12

<table>
<thead>
<tr>
<th>Consumer Category</th>
<th>Approved in the previous T.O. (MU)</th>
<th>Petitioner's submission (MU)</th>
<th>Approved in the truing-up for FY 2011-12 (MU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>16.45</td>
<td>16.66</td>
<td>16.66</td>
</tr>
<tr>
<td>Domestic</td>
<td>342.11</td>
<td>324.41</td>
<td>324.41</td>
</tr>
<tr>
<td>Commercial</td>
<td>69.72</td>
<td>60.35</td>
<td>60.35</td>
</tr>
<tr>
<td>Industrial (LT &amp; HT)</td>
<td>47.05</td>
<td>31.39</td>
<td>31.39</td>
</tr>
<tr>
<td>Bulk Supply</td>
<td>71.16</td>
<td>88.65</td>
<td>88.65</td>
</tr>
<tr>
<td>Tea garden</td>
<td>1.11</td>
<td>0.61</td>
<td>0.61</td>
</tr>
<tr>
<td>Public Water works &amp; Lighting</td>
<td>85.73</td>
<td>102.11</td>
<td>102.11</td>
</tr>
<tr>
<td>Special Public utility</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total (intra-state) sale</strong></td>
<td><strong>633.33</strong></td>
<td><strong>624.17</strong></td>
<td><strong>624.18</strong></td>
</tr>
</tbody>
</table>

4.1.2 Own generation

Petitioner's submission

The Petitioner has submitted that actual gross generation for FY 2011-12 at 817.58 MU and the auxiliary consumption and net generation at 8.05 MU and 809.53 MU respectively.

Commission’s Analysis

The Commission, in its previous Tariff Order had approved gross generation of 798.09 MU and auxiliary consumption and net generation as 7.98 MU and 790.11 MU respectively. The actual gross generation, auxiliary consumption and net generation are marginally higher than approved by the Commission for FY 2011-12.

The Commission approves the actual gross generation of 817.58 MU, auxiliary consumption of 8.05 MU and net generation of 809.53 MU for FY 2011-12 as shown in the following Table.
Table 4-3: Approved generation for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGTPPP</td>
<td>MU</td>
<td>436.14</td>
<td>419.04</td>
<td>419.04</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>%</td>
<td>1.00%</td>
<td>1.00%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MU</td>
<td>4.36</td>
<td>4.19</td>
<td>4.19</td>
</tr>
<tr>
<td>Net Generation</td>
<td>MU</td>
<td>431.78</td>
<td>414.85</td>
<td>414.85</td>
</tr>
<tr>
<td>BGTPPP</td>
<td>MU</td>
<td>312.73</td>
<td>358.68</td>
<td>358.68</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>%</td>
<td>1.00%</td>
<td>1.00%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MU</td>
<td>3.13</td>
<td>3.59</td>
<td>3.59</td>
</tr>
<tr>
<td>Net Generation</td>
<td>MU</td>
<td>309.60</td>
<td>355.09</td>
<td>355.09</td>
</tr>
<tr>
<td>GHTPP</td>
<td>MU</td>
<td>49.22</td>
<td>38.86</td>
<td>38.86</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>%</td>
<td>1.00%</td>
<td>0.70%</td>
<td>0.70%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MU</td>
<td>0.49</td>
<td>0.27</td>
<td>0.27</td>
</tr>
<tr>
<td>Net Generation</td>
<td>MU</td>
<td>48.73</td>
<td>38.58</td>
<td>38.58</td>
</tr>
<tr>
<td>Diesel Generating Plant</td>
<td>MU</td>
<td>-</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Total Gross Generation</td>
<td>MU</td>
<td>798.09</td>
<td>817.58</td>
<td>817.58</td>
</tr>
<tr>
<td>Total auxiliary consumption</td>
<td>MU</td>
<td>7.98</td>
<td>8.05</td>
<td>8.05</td>
</tr>
<tr>
<td>Total Net Generation</td>
<td>MU</td>
<td>790.11</td>
<td>809.53</td>
<td>809.53</td>
</tr>
</tbody>
</table>

4.1.3 Power Purchase

Petitioner's submission

The petitioner has submitted that it has allocations from the Central Generating Stations (CGS) of NEEPCO and NHPC Ltd.

The Petitioner has submitted the gross power purchase quantum of 435.68 MU for FY 2011-12. The following Table shows the actual power purchase quantum of TSECL for FY 2011-12.
Commission’s Analysis

The Commission, in its Tariff Order for FY 2012-13, had approved gross power purchase quantum of 484.06 MU from all sources for FY 2011-12.

It is observed that the actual power purchase quantum for the Petitioner was lower than the quantum approved by the Commission for FY2011-12.

The Commission through its letter dated March 23rd, 2013 directed the Petitioner to submit month wise and station wise power purchase details along with the bills received by the Petitioner.

The Commission has reviewed the month wise station wise power purchase details submitted by the Petitioner and cross verified the same with the Monthly Regional Energy Accounts for FY 2011-12.

The Commission approves the gross power purchase of 435.69 MU in the True-Up of FY 2011-12, as summarised below:

Table 4-5: Approved Power purchase quantum for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>413.19</td>
<td>376.41</td>
<td>376.41</td>
</tr>
<tr>
<td>NHPC</td>
<td>70.87</td>
<td>59.28</td>
<td>59.28</td>
</tr>
<tr>
<td>Total</td>
<td>484.06</td>
<td>435.68</td>
<td>435.69</td>
</tr>
</tbody>
</table>
4.1.4 Energy balance

Petitioner’s submission

Based on the energy sales, own generation and power purchase, the Petitioner has submitted the energy balance for FY 2011-12, which is shown in the Table below.

Table 4-6: Energy balance of TSECL for FY 2011-12

<table>
<thead>
<tr>
<th>Energy balance</th>
<th>FY 2011 - 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intra-state sales</td>
<td>624.18</td>
</tr>
<tr>
<td>Inter-state sales (bilateral trade/ UI)</td>
<td>334.54</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>265.06</td>
</tr>
<tr>
<td>T&amp;D Losses (%)</td>
<td>29.81%</td>
</tr>
<tr>
<td><strong>Total energy requirement at TSECL periphery</strong></td>
<td><strong>889.24</strong></td>
</tr>
<tr>
<td>Own Generation</td>
<td>809.53</td>
</tr>
<tr>
<td>Power purchase</td>
<td>435.68</td>
</tr>
<tr>
<td><strong>Gross Power Availability (within and outside state)</strong></td>
<td><strong>1,245.21</strong></td>
</tr>
<tr>
<td>Less: Interstate transmission loss</td>
<td>21.43</td>
</tr>
<tr>
<td><strong>Net Power Availability (within and outside state)</strong></td>
<td><strong>1,223.78</strong></td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Commission has observed that the Petitioner has managed to reduce their T&D Losses only by 1%. The Commission has also analyzed the past T&D losses reduction trajectory of the Petitioner and found that the T&D Losses from FY 2007-08 to FY 2010-11 has been reduced in the range of 1.61% to 2.80% each year.

Table 4-7: T&D losses of the Petitioner from FY 2007-08 to FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Tariff Petition for FY 2012-13</th>
<th>Year-on-year loss reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2007-08</td>
<td>37.57%</td>
<td>---</td>
</tr>
<tr>
<td>FY 2008-09</td>
<td>35.96%</td>
<td>1.61%</td>
</tr>
<tr>
<td>FY 2009-10</td>
<td>33.16%</td>
<td>2.80%</td>
</tr>
<tr>
<td>FY 2010-11</td>
<td>30.82%</td>
<td>2.34%</td>
</tr>
<tr>
<td>FY 2011-12</td>
<td>29.81%</td>
<td>1.01%</td>
</tr>
</tbody>
</table>

The Commission has observed that the Petitioner has only managed to reduce the T&D losses in FY 2011-12 only by 1.01% from the previous year.
In the Technical Validation session the Petitioner has pointed out that due to new connections provided to the Kutir Jyoti consumers under the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) scheme, the overall T&D losses of the utility has been increased due to widening of the distribution network for supply of energy in thinly populated villages. Energy consumption in these villages is very low and the line losses are high due to its long stretch.

The Commission found that the Petitioner’s justification regarding the T&D losses are not supported by the actual data submitted by the Petitioner. As per the records of the Petitioner the Kutir Jyoti consumers consumed only 2.67% of the total power sold by the utility in FY 2011-12. Energy loss reduction thus needed to address by the Petitioner seriously.

In view of the above, the Commission has maintained the T&D losses of the Petitioner for FY 2011-12 at 27.70% i.e. 27.70% approved for FY 2011-12 in the previous Tariff Order.

### Table 4-8: Approved energy balance for FY 2011-12 (MU)

<table>
<thead>
<tr>
<th>Energy balance</th>
<th>FY 2011 – 12</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner’s submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intra-state sales</td>
<td></td>
<td>633.30</td>
<td>624.18</td>
<td>624.18</td>
</tr>
<tr>
<td>Inter-state sales (bilateral trade/ UI)</td>
<td></td>
<td>376.45</td>
<td>334.54</td>
<td>334.54</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td></td>
<td>242.63</td>
<td>265.06</td>
<td>239.14</td>
</tr>
<tr>
<td>T&amp;D Losses (%)</td>
<td></td>
<td>27.70%</td>
<td>29.81%</td>
<td>27.70%</td>
</tr>
<tr>
<td>Total energy requirement at TSECL periphery</td>
<td></td>
<td>875.94</td>
<td>889.24</td>
<td>863.32</td>
</tr>
<tr>
<td>Own Generation</td>
<td></td>
<td>790.11</td>
<td>809.53</td>
<td>809.53</td>
</tr>
<tr>
<td>Power purchase</td>
<td></td>
<td>484.06</td>
<td>435.68</td>
<td>435.68</td>
</tr>
<tr>
<td><strong>Gross Power Availability (within and outside state)</strong></td>
<td></td>
<td><strong>1,252.38</strong></td>
<td><strong>1,245.21</strong></td>
<td><strong>1,245.21</strong></td>
</tr>
<tr>
<td>Less: Interstate transmission loss</td>
<td></td>
<td>21.78</td>
<td>21.43</td>
<td>21.43</td>
</tr>
<tr>
<td><strong>Net Power Availability (within and outside state)</strong></td>
<td></td>
<td><strong>1230.60</strong></td>
<td><strong>1,223.78</strong></td>
<td><strong>1,223.78</strong></td>
</tr>
</tbody>
</table>
4.1.5 Fuel Purchase cost

**Petitioner's submission**

The Petitioner has claimed Rs. 183.22 Crore towards procurement of natural gas in FY 2011-12 as shown in Table 4-9:

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>183.22</td>
</tr>
</tbody>
</table>

**Commission’s Analysis**

The Commission in its previous Tariff Order had approved Rs. 188.05 Crore towards fuel cost for FY 2011-12. The actual fuel cost was less than the approved by the Commission for FY 2011-12.

The Commission reviewed total fuel cost incurred by the petitioner for FY 2011-12 from the annual accounts of the Petitioner and also cross-checked the actual cost with the fuel purchase bills raised by the GAIL and ONGC. The total fuel purchase cost shown in the Annual Accounts for FY 2011-12 shown at Rs.182.91 Crore. The Petitioner has shown Rs. 0.31 Crore towards procurement of lubricant oil in the fuel cost. The cost incurred for procurement of lubricant oil is an O&M expenses and accordingly the Commission has allowed this cost in the Truing-up of O&M expenses for FY 2011-12.

The Commission approves Rs. 182.91 Crore towards fuel purchase cost in the truing-up for FY 2011-12, which is shown in the Table below.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approved in the previous T.O.</td>
</tr>
<tr>
<td>Fuel purchase cost</td>
<td>188.05</td>
</tr>
<tr>
<td>Total</td>
<td>188.05</td>
</tr>
</tbody>
</table>
**4.1.6 Power purchase cost**

*Petitioner's submission*

As mentioned earlier in para no. 4.1.3 that the Petitioner has been allotted share of generation from the CGSs of NEEPCO and NHPC Ltd.

The Petitioner has submitted the actual power purchase cost at Rs. 204.28 Crore for FY 2011-12. The aforesaid power purchase cost included Rs. 32.01 Crore paid by the Petitioner for supplementary bills raised by the NEEPCO and NHPC Ltd. and Rs. 1.47 Crore paid to NTPC, SCADA and IEX charges.

**Table 4-11: Power purchase cost claimed in the truing-up for FY 2011-12**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power Purchase (MU)</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>NEEPCO</td>
<td>376.41</td>
</tr>
<tr>
<td>NHPC</td>
<td>59.28</td>
</tr>
<tr>
<td>PGCIL</td>
<td>-</td>
</tr>
<tr>
<td>NTPC, SCADA, IEX charges</td>
<td>-</td>
</tr>
<tr>
<td>Supplementary Bills of NEEPCO, NHPC</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>435.68</td>
</tr>
</tbody>
</table>

*Commission's Analysis*

The Commission in its previous Tariff Order had approved the power cost at Rs. 179.68 for FY 2011-12. The Commission has observed that the Petitioner has shown an increase of actual power cost in FY 2011-12 amounting to Rs. 65 Crore from the previous year's actual cost. The Petitioner has claimed that the increase in the power purchase cost in FY 2011-12 was mainly because of the supplementary bills amount paid to the NEEPCO and NHPC in the tune of Rs. 32.10 Crore. In this regard, the Commission vide its letter dated March 23rd, 2013 has directed the Petitioner to submit the month wise summary of the power purchase cost along with all the bills received from the generators (including supplementary bills). Subsequently, the Commission has called a Reconciliation meeting with the Petitioner on May 3rd, 2013 to verify the actual
power cost incurred in FY 2011-12. In the Reconciliation meeting the Petitioner has revealed that it has wrongly considered thirteen (13) months power purchase cost in the annual accounts. The actual power purchase cost incurred in FY 2011-12 would be less than the amount shown in the annual accounts as well as in the True-up Petition. In this regard, the Commission once again has asked the Petitioner to submit the month wise break-up of the power purchase cost for FY 2011-12.

The Petitioner vide letter no. F.EE/ED-IX/TC/101/1078-80 dated April 24th, 2013 has submitted actual power purchase cost of Rs. 143.52 Crore paid in FY 2011-12 to NEEPCO and NHPC Ltd., which included the supplementary bills of Rs. 37.10 Crore paid by the Petitioner. The Commission, accordingly recomputed the actual power purchase cost for FY 2011-12 by adding Rs.143.20 Crore with Rs. 26.31 Crore incurred as transmission and other charges to PGCIL, NTPC, SCADA and IEX. The actual power purchase cost for FY 2011-12 comes to Rs.169.83.

The Commission approves Rs. 169.83 Crore towards power purchase cost in the truing-up for FY 2011-12, as shown in the Table below.

Table 4-12: Approved power purchase cost for FY 2011-12 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approved in the previous T.O.</td>
</tr>
<tr>
<td>Power purchase cost</td>
<td>179.68</td>
</tr>
<tr>
<td>Total</td>
<td>179.68</td>
</tr>
</tbody>
</table>

4.1.7 Operation and Maintenance (O&M) expenses

Petitioner’s submission

The Petitioner has claimed Rs. 113.70 Crore towards O&M expenses in the truing up for FY 2011-12 against Rs. 112.61 Crore approved by the
Commission. The details of the approved O&M expenses and claimed by the Petitioner in the truing-up for FY 2011-12 are summarized in the Table below:

**Table 4-13: O&M expenses claimed in the truing-up for FY 2011-12**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner’s submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>85.00</td>
<td>85.98</td>
</tr>
<tr>
<td>Repair and Maintenance expenses</td>
<td>17.40</td>
<td>14.69</td>
</tr>
<tr>
<td>Administrative and General expenses</td>
<td>10.21</td>
<td>13.03</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>112.61</strong></td>
<td><strong>113.70</strong></td>
</tr>
</tbody>
</table>

The Petitioner in its subsequent submission to the Commission has submitted Rs. 114.36 Crore as the actual O&M expenses for FY 2011-12. The break-up of O&M expenses of Rs. 114.36 Crore submitted by the Petitioner is shown as follows.

**Table 4-14: Revised O&M expenses submitted for FY 2011-12**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>85.98</td>
</tr>
<tr>
<td>Repair and Maintenance expenses</td>
<td>14.69</td>
</tr>
<tr>
<td>Administrative and General expenses</td>
<td>13.69</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>114.36</strong></td>
</tr>
</tbody>
</table>

The Petitioner has revised the actual A&G to Rs. 13.69 from Rs. 13.03 Crore submitted earlier. Hence, the total O&M expenses of the Petitioner for FY 2011-12 increased from Rs. 113.70 to Rs. 114.36.

The component-wise O&M expenses are discussed in the subsequent paragraphs.

**4.1.7.1 Employee expense**

The Petitioner has claimed Rs. 85.98 Crore towards employee expense in the truing up for FY 2011-12.
Commission’s Analysis

The Commission in its previous Tariff Order had approved Rs. 85.00 Crore as employee expense for FY 2011-12. The annual accounts for FY 2011-12 show the actual employee expenses at Rs. 85.98 Crore, a nominal increase of Rs. 0.98 Crore.

The Commission approves the employee expenses at Rs. 85.98 Crore in the truing-up for FY 2011-12.

4.1.7.2 Repairs & Maintenance (R&M) Expenses

Petitioner’s submission

The Petitioner has claimed Rs. 14.69 Crore towards R&M expenses in the truing up for FY 2011-12.

Commission’s Analysis

The Commission in its previous Tariff Order had approved Rs. 17.40 Crore as R&M expenses for FY 2011-12. Note 21 of the annual accounts reflect Rs. 14.69 Crore as the actual R&M expenses for the Petitioner for FY 2011-12.

The Commission approves the R&M expenses at Rs. 14.69 Crore in the truing-up for FY 2011-12.

4.1.7.3 Administration & General (A&G) expenses

Petitioner’s submission

The Petitioner in its revised submission has claimed Rs. 13.69 Crore towards A&G expenses in the truing up for FY 2011-12.

Commission’s Analysis

The Commission in its previous Tariff Order had approved Rs. 10.21 Crore as A&G expenses for FY 2011-12. Note 21 of the annual accounts reflect Rs. 13.69 Crore as the actual A&G expenses for the Petitioner for FY 2011-12.
The Commission, accordingly, approves the A&G expenses at Rs. 13.69 Crore in the truing up for FY 2011-12.

The following Table shows the total O&M expenses approved in the truing-up for FY 2011-12.

Table 4-15: O&M expenses approved for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expenses</td>
<td>85.00</td>
<td>85.98</td>
<td>85.98</td>
</tr>
<tr>
<td>Repair and Maintenance</td>
<td>17.40</td>
<td>14.69</td>
<td>14.69</td>
</tr>
<tr>
<td>Administrative and General expenses</td>
<td>10.21</td>
<td>13.69</td>
<td>13.69</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>112.61</strong></td>
<td><strong>114.36</strong></td>
<td><strong>114.36</strong></td>
</tr>
</tbody>
</table>

4.1.8 Depreciation

**Petitioner's submission**

TSECL has claimed Rs. 27.92 Crore towards depreciation in the truing up for FY 2011-12. TSECL has considered that the depreciation rate as per the Companies Act 1956 and computed the depreciation as detailed in the Table below:

Table 4-16: Depreciation claimed by TSECL for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Fixed Assets (GFA) (A)</td>
<td>972.83</td>
</tr>
<tr>
<td>Assets created through Government Grants (B)</td>
<td>391.91</td>
</tr>
<tr>
<td>Gross depreciation</td>
<td>46.76</td>
</tr>
<tr>
<td>Net depreciation i.e. depreciation on the assets created from sources other than government grants</td>
<td>27.92</td>
</tr>
</tbody>
</table>

The depreciation amount booked in the Annual Accounts has been calculated on the total asset base as shown in the first row (A) of the above Table. The Petitioner has computed the net assets base by deducting the assets created from the government grants from the total assets of the utility. The average
depreciation rate of 4.91% then applied on the net assets base to compute the depreciation amount for FY 2011-12.

Commission’s Analysis

The Commission, in its previous Tariff Order has directed the Petitioner to prepare and submit the “Assets and Depreciation Register” before the Commission within 180 days after issuance of the Tariff Order (point no. 2 of the Tariff Order). Further as part of the ‘Directives’, the Commission specifically asked the Petitioner to prepare “Assets and Depreciation Register” for allowance of depreciation.

“Determination of Tariff requires both GFA value and corresponding depreciation. TSECL is directed to prepare the function wise assets and depreciation registers including asset-wise classification. Till such time, the required asset-wise details are not prepared and got audited, it is not feasible for the Commission to consider the gross fixed assets and accumulated depreciation over the years to arrive at the capital base and allow the return there on as per the TERC Tariff Regulations 2004. The preparation of asset and depreciation register shall be completed by September 30th, 2012”.

The Petitioner, however, has not submitted the “Assets and Depreciation Register” before the Commission as of now. The Petitioner in its submission April 24th, 2013 has claimed that Note 9.1 the annual accounts for FY 2011-12 as the asset register of TSECL. Based on the above, the Commission is unable to accept Schedule Note 9.1 as the “Assets and Depreciation Register” of the Petitioner on the following grounds:

- The annual accounts for FY 2011-12 are not audited by a Statutory Auditor.
- Note 9.1 of the annual accounts in which the Petitioner has claimed that the details of assets and depreciation are given, has not been submitted before the Commission.
Further, the Commission would like to point out that from the Accounting Notes/Schedule, it is very difficult to ascertain the:

- Assets are in service
- Assets are not in use
- Assets exist lying as dead stock
- Assets considered as scrap
- Sources of the funds utilized in the capital expenditure

Due to the absence of the audited Fixed Assets and Depreciation register, it is difficult for the Commission to ascertain the GFA value of the Petitioner. The Commission, in its previous Tariff Order has directed the Petitioner to compile, audit and submit the Fixed Assets and Depreciation register before the Commission. The Petitioner has not compiled this directive of the Petitioner as of now.

In light of the above, the Commission maintains the same depreciation amount allowed in the previous Tariff Order for FY 2010-11 due non-compliance of the Commission’s directive.

The Commission, accordingly approves the depreciation at Rs. 24.31 Crore in the truing up for FY 2011-12.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner’s submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depreciation</td>
<td>24.31</td>
<td>27.92</td>
<td>24.31</td>
</tr>
</tbody>
</table>

4.1.9 Interest and Finance charges

Petitioner’s submission

The petitioner has claimed Rs. 1.87 Crore towards interest and finance charges in the truing up for FY 2011-12.
Commission’s Analysis

The Commission in its previous Tariff Order had approved Rs. 0.35 Crore as interest and finance charges. “Note No. 20” of the annual accounts shows that in FY 2011-12, the Petitioner has paid Rs. 0.02 Crore towards interest and finance charges.

The Commission accordingly, approves the Interest and Finance charges at Rs. 0.02 Crore in the truing up for FY 2011-12.

Table 4-18: Interest and finance charges approved for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner’s submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest and finance charges</td>
<td>0.35</td>
<td>1.87</td>
<td>0.02</td>
</tr>
</tbody>
</table>

4.1.10 Interest on working capital

Petitioner’s submission

The petitioner has computed the interest on working capital for FY 2011-12 at Rs. 9.99 Crore as per the normative principles outlined in the TERC Tariff Regulations 2004 and sought approval of the same from the Commission.

To compute the interest on working capital, the Petitioner has segregated the total energy sales in the Generation, Transmission and Distribution segments. The segmental allocation of the total energy sales is based on the GFA employed in the Generation, Transmission and Distribution segments of TSECL. The detail computation of the interest in working capital as submitted by the Petitioner is shown in the following Table:
### Table 4-19: Interest on the working capital submitted for FY 2011-12 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>% Age Break-up of Assets</th>
<th>Norms for Working Capital Requirement (in days)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>31.76%</td>
<td>45</td>
<td>20.30</td>
</tr>
<tr>
<td>Transmission</td>
<td>7.31%</td>
<td>45</td>
<td>4.67</td>
</tr>
<tr>
<td>Distribution</td>
<td>60.93%</td>
<td>60</td>
<td>51.91</td>
</tr>
<tr>
<td><strong>Total Working Capital Requirement</strong></td>
<td></td>
<td></td>
<td><strong>76.87</strong></td>
</tr>
<tr>
<td>Interest Rate (@ SBI PLR on 1st April)</td>
<td></td>
<td></td>
<td>13%</td>
</tr>
<tr>
<td>Interest on Working Capital</td>
<td></td>
<td></td>
<td>9.99</td>
</tr>
</tbody>
</table>

#### Commission’s Analysis

The Commission examined the computation of interest on working capital submitted by the Petitioner.

From the Annual Accounts for FY 2011-12, the Commission has observed that the Petitioner has not paid any interest cost towards working capital loan borrowed from the Banks/Financial Institutions. The Commission has further observed that the Petitioner in the past years has not borrowed from the Banks/Financial Institutions to meet its working capital requirement. In this view the Commission to deal with this aspect in the next Tariff Order.

The Commission, accordingly, approves the interest on working capital as Nil in the truing up for FY 2011-12.

#### 4.1.11 Reasonable return

**Petitioner’s submission**

The Petitioner has computed Rs. 17.49 Crore towards return on equity in the truing up for FY 2011-12 as per the TERC Tariff Regulations 2004.

The reasonable rate of return calculated by the Petitioner is shown in the Table below:
Table 4-20: Calculation reasonable return by TSECL for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity Capital as on 1 April 2011</td>
<td>109.29</td>
</tr>
<tr>
<td>Equity Capital as on 31st March 2012</td>
<td>109.29</td>
</tr>
<tr>
<td>Average Equity capital during FY 2011-12</td>
<td>109.29</td>
</tr>
<tr>
<td>Rate of Reasonable return</td>
<td>16.00%</td>
</tr>
<tr>
<td><strong>Reasonable return for FY 2011-12</strong></td>
<td><strong>17.49</strong></td>
</tr>
</tbody>
</table>

Commission’s analysis

The Commission in its Tariff Order dated March 28th, 2013 had approved Rs. 16.52 Crore as the reasonable return for FY 2011-12. The Commission has observed that the Petitioner has computed the reasonable return by considering 16% interest rate on the total equity of TSECL. As per the TERC Tariff Regulations 2004, the reasonable rate of return to be calculated each for the generation, transmission and distribution business. While calculating the reasonable return for FY 2011-12, the Petitioner has not segregated the average equity into generation, transmission and distribution businesses. Therefore, the computation of the reasonable return submitted by the Petitioner is not as per the TERC Tariff Regulations 2004.

The Commission, in the previous Tariff Order had computed the reasonable return after segregating the average equity into generation, transmission and distribution businesses and computed the same as per the TERC Tariff Regulations 2004. The reasonable return approved by the Commission for FY 2011-12 is shown in the Table below:

Table 4-21: Reasonable return approved for FY 2011-12 in the previous Tariff Order

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Average equity (Rs.)</th>
<th>Interest rate (%)</th>
<th>Reasonable return (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>32.08</td>
<td>15.23%</td>
<td>4.87</td>
</tr>
<tr>
<td>Transmission</td>
<td>7.97</td>
<td>14.23%</td>
<td>1.12</td>
</tr>
<tr>
<td>Distribution</td>
<td>69.24</td>
<td>15.23%</td>
<td>10.53</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>109.29</strong></td>
<td></td>
<td><strong>16.52</strong></td>
</tr>
</tbody>
</table>
The Commission finds that the reasonable return approved in the previous Tariff Order was based on the TERC Tariff Regulations 2004. Hence, there is no need to approve additional reasonable return in FY 2011-12.

The Commission, accordingly approves the reasonable return at Rs. 16.52 Crore in the truing up for FY 2011-12.

Table 4-22: Reasonable return approved for FY 2011-12 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reasonable return</td>
<td>16.52</td>
<td>17.49</td>
<td>16.52</td>
</tr>
</tbody>
</table>

4.1.12 Non-tariff income

Petitioner’s submission

The Petitioner in their revised submission has furnished the non-tariff income at Rs. 40.21 Crore in the truing up for FY 2011-12. The following Table shows the break-up of non-tariff income submitted by the Petitioner for FY 2011-12.

Table 4-23: Non-tariff income of TSECL for FY 2011-12 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Income</td>
<td>38.11</td>
</tr>
<tr>
<td>Other income</td>
<td>1.56</td>
</tr>
<tr>
<td>Net Prior Period expenses</td>
<td>0.54</td>
</tr>
<tr>
<td>Total</td>
<td>40.21</td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Petitioner in its initial submission on March 15th, 2013 has furnished the non-tariff income of Rs. 5.38 Crore for FY 2011-12 against Rs. 30.91 Crore approved by the Commission in the previous Tariff Order. The Commission after review of the Annual Accounts for FY 2011-12 has observed that the Petitioner has not considered Rs. 38.11 Crore towards interest received on Fixed Deposit. In view of that, the Commission has directed the Petitioner to
revise the non-tariff income for FY 2011-12 and re-compute the ARR for FY 2011-12.

The Petitioner in its revised submission on March 26th, 2013 has shown the non-tariff income of Rs. 40.21 Crore for FY 2011-12.

The Commission has reviewed the annual accounts for FY 2011-12 and found that the Petitioner has not considered an amount of Rs. 2.34 Crore received towards service connection charges reflected in Note No. 16 of the annual accounts. The Commission is in the view that the income received from the service connection charges should be considered as non-tariff income in the truing-up exercise for FY 2011-12. The Commission, accordingly consider the same in the non-tariff income of the Petitioner in the truing-up for FY 2011-12. The following Table shows the amount of non-tariff income approved in the previous Tariff Order, submitted by the Petitioner and approved by the Commission in the truing up for FY 2011-12.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-tariff Income</td>
<td>30.91</td>
<td>40.21</td>
<td>42.55</td>
</tr>
</tbody>
</table>

4.1.13 Truing-up of ARR for FY 2011-12

Based on the truing up exercise undertaken for the FY 2011-12, the revised ARR and the resultant profit/losses for the year are as shown in the Table below:
### Table 4-25: True-up of ARR of TSECL for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel cost</td>
<td>177.03</td>
<td>183.22</td>
<td>182.91</td>
</tr>
<tr>
<td>Power Purchase cost</td>
<td>179.68</td>
<td>204.28</td>
<td>169.83</td>
</tr>
<tr>
<td>O&amp;M Expense</td>
<td>112.61</td>
<td>113.70</td>
<td>114.36</td>
</tr>
<tr>
<td>Depreciation</td>
<td>24.31</td>
<td>27.92</td>
<td>24.31</td>
</tr>
<tr>
<td>Interest and Finance Charges</td>
<td>0.35</td>
<td>1.87</td>
<td>0.02</td>
</tr>
<tr>
<td>Interest on Working Capital</td>
<td>-</td>
<td>9.99</td>
<td>-</td>
</tr>
<tr>
<td>Return on Equity</td>
<td>16.52</td>
<td>17.49</td>
<td>16.52</td>
</tr>
<tr>
<td>Aggregate Revenue Requirement (ARR)</td>
<td>510.50</td>
<td>558.47</td>
<td>507.95</td>
</tr>
<tr>
<td>Less: Non-Tariff Income</td>
<td>30.91</td>
<td>40.21</td>
<td>42.55</td>
</tr>
<tr>
<td>Net Aggregate Revenue Requirement</td>
<td>479.59</td>
<td>518.25</td>
<td>465.40</td>
</tr>
</tbody>
</table>

#### 4.1.14 Revenue from sale of power

The Petitioner has shown the revenue earned from all the sources at Rs. 388.22 Crore in the truing up for FY 2011-12, which is shown in the Table below.

### Table 4-26: Revenue earned in FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale of power</td>
<td>256.33</td>
<td>239.88</td>
</tr>
<tr>
<td>Revenue from inter-state sale of power</td>
<td>112.11</td>
<td>104.78</td>
</tr>
<tr>
<td><strong>Total revenue from sale of power</strong></td>
<td><strong>368.44</strong></td>
<td><strong>344.66</strong></td>
</tr>
<tr>
<td>Other Income</td>
<td>-</td>
<td>3.56</td>
</tr>
<tr>
<td>Revenue subsidy from the Govt. of Tripura</td>
<td>134.22</td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Total revenue</strong></td>
<td><strong>502.66</strong></td>
<td><strong>388.22</strong></td>
</tr>
</tbody>
</table>

**Commission’s Analysis**

**Subsidy received from the Government of Tripura in FY 2011-12**

The Petitioner in its last Tariff Petitioner had proposed Rs. 134.22 Crore towards revenue subsidy to be received from the Govt. of Tripura based on the note of discussion held at the Secretary Power office. The Commission
has also projected the same for FY 2011-12. However, in the Tariff Petition for FY 2013-14, the Petitioner has shown that only Rs. 40.00 Crore received from the Govt. of Tripura and no suitable clarification was given to the Commission on whether the remaining Rs. 94.22 Crore will be received or not.

The Commission vide letter no. F.24/TERC/09/70-92 dated 26th April, 2013 has asked the Petitioner to submit an update on recovery of this pending subsidy amount from the Govt. of Tripura. The Petitioner in its reply dated 24th April, 2013 has submitted that in FY 2011-12, the State Government has provided only Rs. 40 Crore as revenue subsidy.

The Commission verified the Annual Accounts of FY 2011-12 (internally audited) and found that TSECL has actually received Rs. 40 Crore as subsidy from the State Government. The Commission has considered the revenue subsidy amount shown in the Annual Accounts for FY 2011-12 and accordingly approved the same for FY 2011-12.

**Revenue from intra-state sale of energy in FY 2011-12**

The Petitioner has shown Rs. 239.88 Crore against 624.18 MU sold to the inter-state consumers. The average billing rate in FY 2011-12 was Rs. 3.84 per unit for the inter-state consumers. The Commission in its previous Tariff Order has approved the average billing rate of Rs. 4.00 per unit for FY 2011-12, which was determined based on the actual billing rate from April 2011 to December 2011. The Petitioner stated that the billing rate submitted for the entire FY 2011-12 has been computed on actual sales and shall be considered in the truing-up. The Commission, in this regard, vide letter dated 18th April 2013 has directed the Petitioner to submit slab wise month wise energy sales details for FY 2011-12. The Petitioner vide letter dated 24th April, 2013 has submitted the category wise and slab wise energy sales for FY 2011-12. However, the Petitioner has not provided the slab-wise revenue billed data as desired by the Commission.
Revenue from inter-state sale of energy in FY 2011-12

The Petitioner has shown revenue earned from inter-state energy sale at Rs. 104.78 Crore against Rs. 112.11 Crore approved by the Commission. The Commission in the previous Tariff Order has approved the inter-state energy sales for Manipur and Mizoram at 169.48 MU and energy sales by trading and UI at 206.97 MU. Against that in FY 2011-12, the Petitioner has sold 143.02 MU to Manipur and Mizoram at an average billing rate of Rs. 3.14 per unit and 191.52 MU by trading and UI at an average billing rate of Rs. 3.13 per unit.

Revenue shown in the Annual Accounts of FY 2011-12

The annual accounts of the Petitioner shows revenue earned from the sale of power at Rs. 345.88 Crore against Rs. 344.66 as shown by the Petitioner in the Supplementary Tariff Petition. The Commission has considered amount shown as revenue from sale of energy in the annual accounts of the Petitioner in the truing-up for FY 2011-12.

Further, the Commission has considered Rs. 40 Crore received from the Government of Tripura as revenue subsidy in FY 2011-12.

The revenue approved by the Commission in the truing-up for FY 2011-12 is shown in the following Table.

Table 4-27: Revenue approved in the truing up for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the previous T.O.</th>
<th>Petitioner's submission</th>
<th>Approved in the truing-up for FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale of power</td>
<td>256.33</td>
<td>239.88</td>
<td>345.87</td>
</tr>
<tr>
<td>Revenue from inter-state sale of power</td>
<td>112.11</td>
<td>104.78</td>
<td></td>
</tr>
<tr>
<td>Total revenue from sale of power</td>
<td>368.44</td>
<td>344.66</td>
<td>345.87</td>
</tr>
<tr>
<td>Other Income</td>
<td>-</td>
<td>3.56</td>
<td>-</td>
</tr>
<tr>
<td>Revenue subsidy from the Govt. of Tripura</td>
<td>134.22</td>
<td>40.00</td>
<td>40.00</td>
</tr>
<tr>
<td>Total revenue</td>
<td>502.66</td>
<td>388.22</td>
<td>385.87</td>
</tr>
</tbody>
</table>
4.1.15 Revenue gap/surplus

Revenue gap/surplus approved for FY 2011-12 is shown in the Table below:

Table 4-28: Revenue gap approved for FY 2011-12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the truing-up for FY 2011-12 (Crore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Aggregate Revenue Requirement</td>
<td>465.40</td>
</tr>
<tr>
<td>Total revenue</td>
<td>385.87</td>
</tr>
<tr>
<td>Revenue (Gap)/Surplus</td>
<td>(79.53)</td>
</tr>
</tbody>
</table>

The revenue gap of Rs. 79.53 Crore arrived from the truing-up for FY 2011-12 will be carried over to determine the retail tariff for FY 2013-14.
5. Review of Aggregate Revenue Requirement (ARR) for FY 2012-13

In Chapter 5, the performance of TSECL in FY 2012-13 (revised estimate) is compared with the ARR approved for FY 2012-13 in the Order dated March 28\textsuperscript{th}, 2012.

The Commission has analysed all the elements of the ARR and revenue under review for FY 2012-13 in this chapter.

5.3 Energy Sales

The Petitioner, in its Supplementary Petition, has submitted the estimated energy sales for FY 2012-13 at 689.99 MU. Later on, the Petitioner vide letter dated April 24\textsuperscript{th}, 2013 has submitted the actual energy sales from April 2012 to March 2013 at 697.50 MU.

The Petitioner revised estimate submitted in the Supplementary Petition and the actual energy sales for FY 2012-13 submitted to the Commission are given in the Table below.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Petitioner's submission (RE)</th>
<th>Petitioner's submission (Actual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kutir Jyoti</td>
<td>16.78</td>
<td>16.47</td>
</tr>
<tr>
<td>2.</td>
<td>Domestic</td>
<td>371.59</td>
<td>356.73</td>
</tr>
<tr>
<td>3.</td>
<td>Commercial</td>
<td>63.65</td>
<td>68.60</td>
</tr>
<tr>
<td>4.</td>
<td>Industrial (LT and HT)</td>
<td>58.45</td>
<td>38.79</td>
</tr>
<tr>
<td>5.</td>
<td>Bulk Supply</td>
<td>105.41</td>
<td>87.23</td>
</tr>
<tr>
<td>6.</td>
<td>Tea garden</td>
<td>0.67</td>
<td>0.56</td>
</tr>
<tr>
<td>7.</td>
<td>Irrigation</td>
<td>15.58</td>
<td>37.18</td>
</tr>
<tr>
<td>8.</td>
<td>Public Water works</td>
<td>23.78</td>
<td>63.73</td>
</tr>
<tr>
<td>9.</td>
<td>Public Lighting</td>
<td>34.08</td>
<td>26.37</td>
</tr>
<tr>
<td>10.</td>
<td>Special Public utility</td>
<td>0.00</td>
<td>1.84</td>
</tr>
<tr>
<td>11.</td>
<td>Total</td>
<td>689.99</td>
<td>697.50</td>
</tr>
</tbody>
</table>
Commission’s Analysis

The Commission vide its Tariff Order dated March 28th, 2012 had approved the energy sales for FY 2012-13 at 721.39 MU. The Commission has observed that there is a decrease in the actual sales by about 24 MU mainly in domestic and commercial categories. The total sales of 697.50 MU is considered by the Commission for the purpose of Review of ARR for FY 2012-13.

Table 5-2: Approved category-wise sales for FY 2012-13

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Domestic</td>
<td>377.59</td>
<td>371.59</td>
<td>356.73</td>
<td>356.73</td>
</tr>
<tr>
<td>3.</td>
<td>Commercial</td>
<td>77.17</td>
<td>63.65</td>
<td>68.60</td>
<td>68.60</td>
</tr>
<tr>
<td>4.</td>
<td>Industrial (LT and HT)</td>
<td>53.63</td>
<td>58.45</td>
<td>38.79</td>
<td>38.79</td>
</tr>
<tr>
<td>5.</td>
<td>Bulk Supply</td>
<td>85.38</td>
<td>105.41</td>
<td>87.23</td>
<td>87.23</td>
</tr>
<tr>
<td>6.</td>
<td>Tea garden</td>
<td>1.24</td>
<td>0.67</td>
<td>0.56</td>
<td>0.56</td>
</tr>
<tr>
<td>7.</td>
<td>Irrigation</td>
<td>17.91</td>
<td>15.58</td>
<td>37.18</td>
<td>37.18</td>
</tr>
<tr>
<td>8.</td>
<td>Public Water works</td>
<td>40.86</td>
<td>23.78</td>
<td>63.73</td>
<td>63.73</td>
</tr>
<tr>
<td>9.</td>
<td>Public Lighting</td>
<td>40.67</td>
<td>34.08</td>
<td>26.37</td>
<td>26.37</td>
</tr>
<tr>
<td>10.</td>
<td>Special Public utility</td>
<td>0.95</td>
<td>0.00</td>
<td>1.84</td>
<td>1.84</td>
</tr>
<tr>
<td>11.</td>
<td>Total</td>
<td>721.39</td>
<td>689.99</td>
<td>697.50</td>
<td>697.50</td>
</tr>
</tbody>
</table>

5.4 Own generation

Petitioner’s submission

The Petitioner has submitted the revised estimate of gross generation for FY 2012-13 at 758.48 MU. The revised estimates of auxiliary consumption and net generation submitted by the Petitioner were in the tune of 7.44 MU and 751.04 MU respectively for FY 2012-13. The plant wise revised estimates of gross generation, auxiliary consumption and net generation submitted by the Petitioner is presented in the following Table.
### Table 5-3: Revised estimates of generation for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>FY 2012-13 RE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gomti Hydro Electric Plant (GHEP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>15</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>12</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>42.81%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>45.00</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>0.70%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>0.32</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>44.69</td>
</tr>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>74</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>74</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>59.00%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>382.48</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>3.82</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>378.65</td>
</tr>
<tr>
<td><strong>Baramura gas based thermal power plant (BGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>42</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>42</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>89.69%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>330.00</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>3.30</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>326.70</td>
</tr>
<tr>
<td><strong>Diesel Generating Plant</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>1</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Total Own Generation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>132</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>129</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>758.48</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>7.44</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>751.04</td>
</tr>
</tbody>
</table>
Commission’s Analysis

The Commission in its previous Tariff Order has approved the net-generation of the Petitioner at 790.11 MU for FY 2012-13. Against that the Petitioner has estimated the net-generation for FY 2012-13 at 751.04 MU i.e. less than 39.07 MU. The reasons for lower generation by the Petitioner are as follows:

- The Commission had approved total generation capacity of 132 MW. Against that the Petitioner has generated energy on 129 MW de-rated capacity.
- The Commission has approved the PLF for Rokhia gas based thermal power plant (RGTPP) at 67.28%. Against the Commission approval, the Petitioner has projected the PLF for the said plant at 59.00% due to forced outage of 21 MW machine. As a result, the Petitioner has shown less generation of 53.13 MU from RGTPP.
- The Commission in its previous Tariff Order had approved the net-generation from the Gomti Hydro Electric Plant (GHEP) at 48.73 MU. The Petitioner has estimated the net-generation of 44.69 MU in FY 2012-13. The Petitioner has submitted that due to less rainfall and reduced water level in the water reservoir, power generation from GHEP would be less in FY 2012-13.
- However, the Petitioner has estimated higher generation in the Baramura gas based thermal power plant (BGTPP) as compared to the net-generation approved by the Commission for FY 2012-13. The net-generation from BGTPP estimated by the Petitioner at 326.70 MU against approval of the Commission’s at 309.60 MU.

The Commission finds the reasons for less generation from RGTPP and GHEP are reasonable and accordingly approves 751.04 MU as net-generation of the Petitioner in FY 2012-13. The approved power generation from the own generating plants of the Petitioner for FY 2012-13 is given in the Table below.
Table 5-4: Net generation quantum approved for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>Approved in the T.O. for FY 2012-13</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gomti Hydro Electric Plant (GHEP)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>-</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>37.46%</td>
<td>42.81%</td>
<td>42.81%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>49.22</td>
<td>45.00</td>
<td>45.00</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
<td>0.70%</td>
<td>0.70%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>0.49</td>
<td>0.32</td>
<td>0.32</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>48.73</td>
<td>44.69</td>
<td>44.69</td>
</tr>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>74</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>74</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>67.28%</td>
<td>59.00%</td>
<td>59.00%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>436.14</td>
<td>382.48</td>
<td>382.48</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
<td>1.00%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>4.36</td>
<td>3.82</td>
<td>3.82</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>431.78</td>
<td>378.65</td>
<td>378.65</td>
</tr>
<tr>
<td><strong>Baramura gas based thermal power plant (BGTPP)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>42</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>-</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>85.00%</td>
<td>89.69%</td>
<td>89.69%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>312.73</td>
<td>330.00</td>
<td>330.00</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
<td>1.00%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>3.13</td>
<td>3.30</td>
<td>3.30</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>309.60</td>
<td>326.70</td>
<td>326.70</td>
</tr>
<tr>
<td>Diesel Generating Plant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>-</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Total Own Generation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>132</td>
<td>132</td>
<td>132</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>-</td>
<td>129</td>
<td>129</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>798.09</td>
<td>758.48</td>
<td>758.48</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>7.98</td>
<td>7.44</td>
<td>7.44</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>790.11</td>
<td>751.04</td>
<td>751.04</td>
</tr>
</tbody>
</table>
5.5 Power purchase

Petitioner's submission

The Petitioner in its Supplementary Tariff Petition has estimated the power purchase quantum for FY 2012-13 at 450 MU.

The Petitioner vide letter dated April 24th, 2013 has revised the power purchase quantum for FY 2012-13 and submitted the actual power purchase quantum at 423.56 MU.

The Petitioner revised estimate submitted in the Supplementary Petition and the actual power purchase for FY 2012-13 submitted to the Commission are given in the Table below.

Table 5-5: Power purchase submitted by the Petitioner for FY 2012-13 (MU)

<table>
<thead>
<tr>
<th>Source</th>
<th>Petitioner’s submission (RE)</th>
<th>Petitioner’s submission (Actual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>390.00</td>
<td>364.29</td>
</tr>
<tr>
<td>NHPC</td>
<td>60.00</td>
<td>59.28</td>
</tr>
<tr>
<td>Total</td>
<td>450.00</td>
<td>423.56</td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Commission in its Tariff Order dated March 28th, 2012 had approved the total power purchase quantum for FY 2012-13 at 663.50 MU.

Out of the total purchase of 663.50, the Commission had approved 179.44 MU from OTPC Palatana. However, generation from the said plant could not be started in FY 2012-13 due to technical difficulties. As a result, the Petitioner could only managed to procure power from NEEPCO and NHPC Ltd.

In FY 2012-13, the Petitioner has procured 364.29 MU and 59.28 MU from NEEPCO and NHPC against the Commission’s approval of 413.19 MU and 70.87 MU respectively. Since, the actual power purchase quantum for FY 2012-13 is now available with the Petitioner, the Commission approves the
power purchase quantum at 423.56 MU. The following Table shows the approved power purchase quantum for FY 2012-13.

Table 5-6: Power purchase approved for FY 2012-13

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>413.19</td>
<td>390.00</td>
<td>364.29</td>
<td>364.29</td>
</tr>
<tr>
<td>NHPC</td>
<td>70.87</td>
<td>60.00</td>
<td>59.28</td>
<td>59.28</td>
</tr>
<tr>
<td>OTPC Palatana</td>
<td>179.44</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>663.49</strong></td>
<td><strong>450.00</strong></td>
<td><strong>423.56</strong></td>
<td><strong>423.56</strong></td>
</tr>
</tbody>
</table>

5.6 Energy requirement and energy balance

Based on the projected energy sales, own generation, power purchase and the T&D losses for FY 2012-13, the Petitioner has computed the total energy requirement and energy balance as given in the Table below:

Table 5-7: Energy requirement and energy balance projected for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Energy Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Sales within State</td>
<td>MU</td>
<td>689.99</td>
</tr>
<tr>
<td>Sale in bilateral trade/ UI</td>
<td>MU</td>
<td>259.00</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>MU</td>
<td>226.66</td>
</tr>
<tr>
<td>T&amp;D Losses %</td>
<td>%</td>
<td>24.73%</td>
</tr>
<tr>
<td>Total Energy Requirement at TSECL’s periphery</td>
<td>MU</td>
<td>916.66</td>
</tr>
<tr>
<td><strong>Energy Availability</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Own Generation</td>
<td>MU</td>
<td>751.04</td>
</tr>
<tr>
<td>Total Power Purchase from long term Sources</td>
<td>MU</td>
<td>450.00</td>
</tr>
<tr>
<td><strong>Gross Power Availability (Own + outside)</strong></td>
<td>MU</td>
<td><strong>1,201.04</strong></td>
</tr>
<tr>
<td>NER loss</td>
<td>MU</td>
<td>25.39</td>
</tr>
<tr>
<td><strong>Net Power Availability (Own + outside)</strong></td>
<td></td>
<td><strong>1,175.65</strong></td>
</tr>
</tbody>
</table>
Commission’s Analysis

The Commission in its Tariff Order dated March 28th, 2013 had approved the T&D losses at 25%. The Commission, while approving the energy requirement and energy balance for FY 2012-13 has considered the actual energy sales, actual own generation, actual power purchase quantum and T&D losses approved in the previous Tariff Order. The following Table shows the approved energy requirement and energy balance of the Petitioner for FY 2012-13.

Table 5-8: Approved energy requirement and energy balance for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Requirement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Sales within State</td>
<td>MU</td>
<td>689.99</td>
<td>697.50</td>
</tr>
<tr>
<td>Sale in bilateral trade/ UI</td>
<td>MU</td>
<td>259.00</td>
<td>225.52</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>MU</td>
<td>226.66</td>
<td>232.50</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>%</td>
<td>24.73%</td>
<td>25.00%</td>
</tr>
<tr>
<td>Total Energy Requirement at TSECL’s periphery</td>
<td>MU</td>
<td>916.66</td>
<td>930.00</td>
</tr>
<tr>
<td>Energy Availability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Own Generation</td>
<td>MU</td>
<td>751.04</td>
<td>751.04</td>
</tr>
<tr>
<td>Total Power Purchase</td>
<td>MU</td>
<td>450.00</td>
<td>423.56</td>
</tr>
<tr>
<td>Gross Power Availability</td>
<td>MU</td>
<td>1,201.04</td>
<td>1,174.58</td>
</tr>
<tr>
<td>NER loss</td>
<td>MU</td>
<td>25.39</td>
<td>19.08</td>
</tr>
<tr>
<td>Net Power Availability</td>
<td>MU</td>
<td>1,175.65</td>
<td>1,155.52</td>
</tr>
</tbody>
</table>

5.7 Fuel cost

Petitioner’s submission

The Petitioner in its Supplementary Petition has submitted the estimated fuel cost for FY 2012-13 at Rs. 174.44 Crore as shown in the Table below.
### Table 5-9: Fuel cost for FY 2012-13 – Revised Estimate

<table>
<thead>
<tr>
<th>Workings</th>
<th>Unit</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Station Heat Rate</td>
<td>kcal/kWh</td>
<td>3742</td>
</tr>
<tr>
<td>Calorific Value of Gas</td>
<td>kCal/SCM</td>
<td>8,237</td>
</tr>
<tr>
<td><strong>a. From GAIL supply</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average rate of Gas</td>
<td>Rs/ 1000 SCM</td>
<td>5339</td>
</tr>
<tr>
<td>Fuel quantity</td>
<td>'1000 SCM</td>
<td>159573</td>
</tr>
<tr>
<td>Fuel Cost (a)</td>
<td>Rs Lakhs</td>
<td>85.2</td>
</tr>
<tr>
<td><strong>b. From ONGC supply</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average rate of Gas</td>
<td>Rs/ 1000 SCM</td>
<td>9142</td>
</tr>
<tr>
<td>Fuel quantity</td>
<td>'1000 SCM</td>
<td>14165</td>
</tr>
<tr>
<td>Fuel Cost (b)</td>
<td>Rs Crore</td>
<td>12.95</td>
</tr>
<tr>
<td><strong>1. Total Fuel cost for RGTPP ( = a + b)</strong></td>
<td>Rs Crore</td>
<td><strong>98.15</strong></td>
</tr>
<tr>
<td><strong>Baramura gas based thermal power plant (BGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Station Heat Rate</td>
<td>kcal/kWh</td>
<td>3319</td>
</tr>
<tr>
<td>Calorific Value of Gas</td>
<td>kCal/SCM</td>
<td>8,195</td>
</tr>
<tr>
<td><strong>c. From GAIL supply</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average rate of Gas</td>
<td>Rs/ 1000 SCM</td>
<td>5266</td>
</tr>
<tr>
<td>Fuel quantity</td>
<td>1000 SCM</td>
<td>69060</td>
</tr>
<tr>
<td>Fuel Cost (c)</td>
<td>Rs Crore</td>
<td>36.37</td>
</tr>
<tr>
<td><strong>d. From ONGC supply</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average rate of Gas</td>
<td>Rs/ 1000 SCM</td>
<td>6183</td>
</tr>
<tr>
<td>Fuel quantity</td>
<td>'1000 SCM</td>
<td>64581</td>
</tr>
<tr>
<td>Fuel Cost (d)</td>
<td>Rs Crore</td>
<td>39.93</td>
</tr>
<tr>
<td><strong>2. Total Fuel cost for BGTPP ( = c + d)</strong></td>
<td>Rs Crore</td>
<td><strong>76.30</strong></td>
</tr>
<tr>
<td><strong>3. Total Fuel cost ( = 1+2)</strong></td>
<td>Rs Crore</td>
<td><strong>174.44</strong></td>
</tr>
</tbody>
</table>

On the direction of the Commission, the Petitioner vide letter dated April 24th, 2013 has submitted the actual fuel purchase cost for FY 2012-13 at Rs. 184.61 Crore. The actual usage of natural gas and the amount paid by the Petitioner in FY 2012-13 is shown in the following Table.
Table 5-10: Fuel cost for FY 2012-13 – Actual

<table>
<thead>
<tr>
<th>Particulars</th>
<th>RGTPP</th>
<th>BGTPP</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity (MMSCM)</td>
<td>Amount (Rs. Crore)</td>
<td>Quantity (MMSCM)</td>
<td>Amount (Rs. Crore)</td>
</tr>
<tr>
<td>GAIL</td>
<td>169.99</td>
<td>90.68</td>
<td>72.94</td>
</tr>
<tr>
<td>ONGC</td>
<td>15.70</td>
<td>12.88</td>
<td>68.97</td>
</tr>
<tr>
<td>Total</td>
<td>185.70</td>
<td>103.57</td>
<td>141.91</td>
</tr>
</tbody>
</table>

Commission’s Analysis
The Commission in its previous Tariff Order had approved the fuel cost for FY 2012-13 at Rs.182.35 Crore. As per the Petitioner’s submission, the actual fuel cost for FY 2012-13 was Rs. 184.61 i.e. a marginal increase of around Rs. 2 Crore. Based on the above, the Commission has considered the actual fuel purchase quantum and amount for the purpose of Review of ARR for FY 2012-13.


5.8 Power purchase cost

Petitioner’s submission
The Petitioner in its Supplementary Petition has submitted the estimated power purchase cost for FY 2012-13 at Rs. 165.90 Crore as shown in the Table below.

Table 5-11: Power purchase cost for FY 2012-13 – Revised estimate (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MU</td>
</tr>
<tr>
<td>NEEPCO</td>
<td>390.00</td>
</tr>
<tr>
<td>NHPC</td>
<td>60.00</td>
</tr>
<tr>
<td>PGCIL</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>450.00</td>
</tr>
</tbody>
</table>
On the direction of the Commission, the Petitioner vide letter dated April 24th, 2013 has submitted the plant wise actual power purchase cost for FY 2012-13 at Rs. 168.02 Crore.

Table 5-12: Actual Power purchase cost for FY 2012-13

<table>
<thead>
<tr>
<th>Source</th>
<th>MU</th>
<th>Fixed Charges (Rs. Crore)</th>
<th>Variable Charges (Rs. Crore)</th>
<th>Arrears (Rs. Crore)</th>
<th>Rebate (Rs. Crore)</th>
<th>Total (Rs. Crore)</th>
<th>Per Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khandong HEP</td>
<td>8.86</td>
<td>1.61</td>
<td>0.85</td>
<td></td>
<td></td>
<td>2.46</td>
<td>2.77</td>
</tr>
<tr>
<td>Kopili plus Kopili extn HEP</td>
<td>38.02</td>
<td>2.22</td>
<td>1.55</td>
<td></td>
<td></td>
<td>3.77</td>
<td>0.99</td>
</tr>
<tr>
<td>Kopili-stage II</td>
<td>8.53</td>
<td>0.81</td>
<td>0.79</td>
<td></td>
<td></td>
<td>1.60</td>
<td>1.88</td>
</tr>
<tr>
<td>Agartala Gas Turbine Power Plant (AGTPP)</td>
<td>97.38</td>
<td>12.33</td>
<td>23.45</td>
<td></td>
<td></td>
<td>35.78</td>
<td>3.67</td>
</tr>
<tr>
<td>Assam Gas Based Power plant (AGBPP) Kathalguri</td>
<td>108.50</td>
<td>15.55</td>
<td>19.29</td>
<td></td>
<td></td>
<td>34.85</td>
<td>3.21</td>
</tr>
<tr>
<td>Doyang HEP</td>
<td>13.46</td>
<td>3.63</td>
<td>3.52</td>
<td></td>
<td></td>
<td>7.15</td>
<td>5.31</td>
</tr>
<tr>
<td>Ranganadi HEP</td>
<td>89.53</td>
<td>14.12</td>
<td>10.39</td>
<td></td>
<td></td>
<td>24.52</td>
<td>2.74</td>
</tr>
<tr>
<td><strong>Subtotal (A)</strong></td>
<td><strong>364.29</strong></td>
<td><strong>50.28</strong></td>
<td><strong>59.85</strong></td>
<td><strong>20.13</strong></td>
<td><strong>0.00</strong></td>
<td><strong>130.26</strong></td>
<td><strong>3.58</strong></td>
</tr>
<tr>
<td>Loktak Hydro-Electric Power station (HEP)</td>
<td>59.28</td>
<td>7.18</td>
<td>8.20</td>
<td></td>
<td></td>
<td>15.38</td>
<td>2.59</td>
</tr>
<tr>
<td><strong>Subtotal (B)</strong></td>
<td><strong>59.28</strong></td>
<td><strong>7.18</strong></td>
<td><strong>8.20</strong></td>
<td><strong>1.20</strong></td>
<td><strong>0.00</strong></td>
<td><strong>16.58</strong></td>
<td><strong>2.80</strong></td>
</tr>
<tr>
<td><strong>Total Power Purchase (C=A+B)</strong></td>
<td><strong>423.56</strong></td>
<td><strong>57.45</strong></td>
<td><strong>68.05</strong></td>
<td><strong>21.33</strong></td>
<td><strong>2.51</strong></td>
<td><strong>168.02</strong></td>
<td><strong>3.97</strong></td>
</tr>
<tr>
<td>PGCIL Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22.44</td>
<td></td>
</tr>
<tr>
<td>SLDC Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.57</td>
<td></td>
</tr>
<tr>
<td>Other Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.69</td>
<td></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>423.56</strong></td>
<td><strong>57.45</strong></td>
<td><strong>68.05</strong></td>
<td><strong>21.33</strong></td>
<td><strong>2.51</strong></td>
<td><strong>168.02</strong></td>
<td><strong>3.97</strong></td>
</tr>
</tbody>
</table>

Commission's Analysis

The Commission in its previous Tariff Order had approved the power purchase cost for FY 2012-13 at Rs. 229.25, which included Rs. 52.04 Crore towards procurement of power from Palatana. The actual power purchase cost as submitted by the Petitioner for FY 2012-13 was at Rs. 168.02 Crore. The difference between the approved and actual power purchase cost is mainly due to the non-commissioning of the Palatana power plant.
The actual average power purchase cost for FY 2012-13 was Rs. 3.97 per unit against Rs. 3.62 per unit approved by the Commission. The reason for such difference is due to Rs. 21.33 Crore arrear bills paid to NEEPCO and NHPC against Rs. 5.00 Crore approved by the Commission in the previous Tariff Order.

Table 5-13: Approved Power purchase cost for FY 2012-13

<table>
<thead>
<tr>
<th>Source</th>
<th>MU</th>
<th>Fixed Charges (Rs. Crore)</th>
<th>Variable Charges (Rs. Crore)</th>
<th>Arrears (Rs. Crore)</th>
<th>Rebate (Rs. Crore)</th>
<th>Total (Rs. Crore)</th>
<th>Per Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khandong HEP</td>
<td>8.86</td>
<td>1.61</td>
<td>0.85</td>
<td>2.46</td>
<td>2.77</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kopili plus Kopili extn HEP</td>
<td>38.02</td>
<td>2.22</td>
<td>1.55</td>
<td>3.77</td>
<td>0.99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kopili-stage II</td>
<td>8.53</td>
<td>0.81</td>
<td>0.79</td>
<td>1.60</td>
<td>1.88</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ágartala Gas Turbine Power Plant (AGTTP)</td>
<td>97.38</td>
<td>12.33</td>
<td>23.45</td>
<td>35.78</td>
<td>3.67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assam Gas Based Power plant (AGBPP) Kathalguri</td>
<td>108.50</td>
<td>15.55</td>
<td>19.29</td>
<td>34.85</td>
<td>3.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doyang HEP</td>
<td>13.46</td>
<td>3.63</td>
<td>3.52</td>
<td>7.15</td>
<td>5.31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ranganadi HEP</td>
<td>89.53</td>
<td>14.12</td>
<td>10.39</td>
<td>24.52</td>
<td>2.74</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal (A)</strong></td>
<td><strong>364.29</strong></td>
<td><strong>50.28</strong></td>
<td><strong>59.85</strong></td>
<td><strong>20.13</strong></td>
<td><strong>0.00</strong></td>
<td><strong>130.26</strong></td>
<td><strong>3.58</strong></td>
</tr>
<tr>
<td>Loktak Hydro-Electric Power station (HEP)</td>
<td>59.28</td>
<td>7.18</td>
<td>8.20</td>
<td>1.20</td>
<td>16.58</td>
<td>2.80</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal (B)</strong></td>
<td><strong>59.28</strong></td>
<td><strong>7.18</strong></td>
<td><strong>8.20</strong></td>
<td><strong>1.20</strong></td>
<td><strong>0.00</strong></td>
<td><strong>16.58</strong></td>
<td><strong>2.80</strong></td>
</tr>
<tr>
<td><strong>Total Power Purchase (C=A+B)</strong></td>
<td><strong>423.56</strong></td>
<td><strong>57.45</strong></td>
<td><strong>68.05</strong></td>
<td><strong>21.33</strong></td>
<td><strong>2.51</strong></td>
<td><strong>168.02</strong></td>
<td><strong>3.97</strong></td>
</tr>
<tr>
<td>PGCIL Charges</td>
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<td></td>
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<td></td>
<td>22.44</td>
<td></td>
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<tr>
<td>SLDC Charges</td>
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<td>0.57</td>
<td>0.69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>423.56</strong></td>
<td><strong>57.45</strong></td>
<td><strong>68.05</strong></td>
<td><strong>21.33</strong></td>
<td><strong>2.51</strong></td>
<td><strong>168.02</strong></td>
<td><strong>3.97</strong></td>
</tr>
</tbody>
</table>


5.9 Operation and maintenance (O&M) cost

The Petitioner has claimed Rs. 133.75 Crore as O&M expenses in the Review for FY 2012-13, as shown in the Table below:
Table 5-14: O&M cost for FY 2012-13 – Revised estimate

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>98.63</td>
</tr>
<tr>
<td>R&amp;M expenses</td>
<td>20.88</td>
</tr>
<tr>
<td>A&amp;G expenses</td>
<td>14.24</td>
</tr>
<tr>
<td><strong>Total O&amp;M expenses</strong></td>
<td><strong>133.75</strong></td>
</tr>
</tbody>
</table>

During the scrutiny of the O&M expenses, the Petitioner vide letter dated April 11th, 2013 has submitted the actual O&M expenses for FY 2012-13 at Rs.127.59.

Table 5-15: O&M cost for FY 2012-13 – Actual

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>97.08</td>
</tr>
<tr>
<td>R&amp;M expenses</td>
<td>14.93</td>
</tr>
<tr>
<td>A&amp;G expenses</td>
<td>15.58</td>
</tr>
<tr>
<td><strong>Total O&amp;M expenses</strong></td>
<td><strong>127.59</strong></td>
</tr>
</tbody>
</table>

The following section presents head wise analysis of the O&M expenses.

5.9.1 Employee cost

**Petitioner’s submission**

The Commission in its previous Tariff Order has approved the employee expense at Rs. 90.10. Against this, the Petitioner has shown the actual employee cost incurred during FY 2012-13 at Rs. 97.08 Crore i.e. an increase of Rs. 7 Crore (approx). The Petitioner has submitted that the due to implementation of pay revision as ordered by the State Government, the employee expense in FY 2012-13 has increased.

**Commission’s Analysis**

The Commission has noted that the increase in employee cost is mainly due to pay revision. Since, the actual employee expense of the Petitioner is now available, the Commission considers the same in the Review for FY 2012-13.
The Commission, accordingly approves the employee expense of in the Review for FY 2012-13 at Rs. 97.08 Crore.

5.9.2 Repair and maintenance expenses

Petitioner’s submission

Commission’s Analysis

The Commission in its previous Tariff Order had approved the R&M expenses at Rs. 20.88 Crore. The Petitioner in its Review Petition has submitted the revised estimate at Rs. 14.93 Crore for FY 2012-13.


5.9.3 Administrative and general (A&G) expenses

Petitioner’s submission
The Petitioner in its revised submission has submitted Rs.15.58 Crore as the A&G expenses for FY 2012-13.

Commission’s Analysis

The Commission in its previous Tariff Order had approved the A&G expenses at Rs.10.83 Crore for FY 2012-13. The Petitioner in its review has claimed Rs. 15.58 Crore as the A&G expenses for FY 2012-13, which is about Rs. 5 Crore higher than approved by the Commission. The Petitioner has submitted that the A&G expenses claimed in the review of the ARR had already been incurred in FY 2012-13. In this regard, the Commission has approved the A&G expenses at Rs. 15.58 Crore in the review for FY 2012-13.

The following Table depicts the total O&M expenses approved by the Commission for FY 2012-13:
Table 5-16: O&M expenses approved for FY 2012-13 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2012-13</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Petitioner’s submission (RE)</td>
<td>Approved in the Review for FY 2012-13</td>
</tr>
<tr>
<td>Employee expense</td>
<td>97.08</td>
<td>97.08</td>
</tr>
<tr>
<td>R&amp;M expenses</td>
<td>14.93</td>
<td>14.93</td>
</tr>
<tr>
<td>A&amp;G expenses</td>
<td>15.58</td>
<td>15.58</td>
</tr>
<tr>
<td>Total</td>
<td>127.59</td>
<td>127.59</td>
</tr>
</tbody>
</table>

5.10 Depreciation

**Petitioner’s submission**
The Petitioner has claimed depreciation in the tune of Rs. 49.04 Crore for FY 2012-13.

**Commission’s Analysis**
The depreciation computed by the Petitioner for FY 2012-13 was not based on the Fixed Assets Register audited by a Statutory Auditor. Therefore, the Commission approves the depreciation for FY 2012-13 as approved in the previous Tariff Order i.e. Rs. 24.31 Crore.

5.11 Reasonable Return

**Petitioner's submission**
The Petitioner has claimed reasonable return at Rs. 19.40 Crore in review of ARR for FY 2012-13. The Petitioner has submitted that return on equity has been computed @ 17.75% on the average equity. The comparison of the normative return on equity for FY 2012-13, as against the amount approved in the previous Tariff Order is shown in the Table below:

Table 5-17: Reasonable return for FY 2012-13 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the T.O. for FY 2012-13</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reasonable Return</td>
<td>16.52</td>
<td>19.40</td>
</tr>
</tbody>
</table>
Commission’s Analysis

As per the TERC Tariff Regulations 2004, the Commission in its previous Tariff Order had considered the interest rates at 15.23%, 14.23% and 15.23% respectively for the generation, transmission and distribution businesses. Since, the Petitioner has not provided the break-up of the equity in generation, transmission and distribution it is difficult for the Commission to arrive at the normative reasonable return of the Petitioner as per the TERC Tariff Regulations 2004.

In this view, the Commission approves reasonable return at Rs. 16.52 Crore for FY 2012-13.

Table 5-18: Reasonable return approved for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reasonable Return</td>
<td>19.40</td>
<td>16.52</td>
</tr>
</tbody>
</table>

5.12 Interest & Finance Charges

Petitioner’s submission
The Petitioner has claimed interest and finance charges at Rs. 2.47 Crore for FY 2012-13. The Petitioner in its Review Petition has shown Rs. 2.05 as interest paid on capital loans, Rs. 0.018 Crore as other finance charges, Rs. 0.008 Crore as Guarantee fee, Rs. 0.01 Crore as Bank Commission for letter of credit and Rs. 0.40 Crore as interest on consumer security deposit.

Commission’s Analysis
The interest on capital loan taken from Rural Electricity Corporation (REC) amounting to Rs. 2.05 Crore has been arrived on normative basis. The Petitioner in Table 43 of Supplementary Petition has not specify the amount of
loan taken from the REC, actual interest rate as well as the terms and conditions for payment of interest to the REC.

Further, the Petitioner has not paid any interest to the consumers on their security deposits during FY 2012-13. Therefore, the interest and finance charges claimed by the Petitioner are not supported by the actual facts.

In view of the above, the Commission approves the interest and finance charges at Rs. 0.34 Crore as approved by the Commission in the previous Tariff Order.

5.13 Interest on Working Capital

Petitioner's submission

The Petitioner has claimed interest on working capital at Rs. 11.30 Crore in the review of ARR for FY 2012-13. The Petitioner’s computation of the normative working capital is based on the un-audited Gross Fixed Assets segregated into generation, transmission and distribution. The following Table shows the Petitioner’s computation of working capital for FY 2012-13.

Table 5-19: Working capital for FY 2012-13

<table>
<thead>
<tr>
<th>Working Capital</th>
<th>% age break up of assets</th>
<th>Norms for Working Capital requirement (in days)</th>
<th>FY 2012-13 (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>31.76%</td>
<td>45</td>
<td>20.23</td>
</tr>
<tr>
<td>Transmission</td>
<td>7.31%</td>
<td>45</td>
<td>4.66</td>
</tr>
<tr>
<td>Distribution</td>
<td>60.93%</td>
<td>60</td>
<td>51.74</td>
</tr>
<tr>
<td>Total Working Capital requirement</td>
<td></td>
<td></td>
<td>76.63</td>
</tr>
<tr>
<td>Interest Rate (@ SBI PLR on 1st April)</td>
<td></td>
<td></td>
<td>14.75%</td>
</tr>
<tr>
<td>Interest on Working Capital</td>
<td></td>
<td></td>
<td>11.30</td>
</tr>
</tbody>
</table>
Commission’s Analysis

As mentioned in the previous chapter, the Commission will deal with this issue in the previous Chapter. Further, the working capital computation provided by the Petitioner on the basis of un-audited accounts. The Commission in its previous Tariff Order has directed the Petitioner to submit Fixed Assets and Depreciation Register audited by a Statutory Auditor. The Petitioner's computation of interest on working capital based on the un-audited GFA is not acceptable to the Commission.

The Commission, accordingly approves the interest on working capital at Rs. Nil in the Review for FY 2012-13.

5.14 Non-tariff income

Petitioner’s submission

The Petitioner in its Supplementary Petitioner has projected non-tariff income at Rs. 39.67 Crore for FY 2012-13. The Petitioner has considered the interest on fixed deposit and other income.

Commission’s Analysis

The Commission has found that the Petitioner has not projected the income from service connection charges in the non-tariff income for FY 2012-13. In FY 2011-12, the Petitioner has earned Rs. 2.34 as service connection charges. The Commission, while computing the non-tariff income for FY 2012-13 has considered this income at the same level of FY 2011-12.

The Commission, accordingly approves non-tariff income at Rs. 42.01 Crore in the review of ARR for FY 2012-13 as shown in the Table below.

Table 5-20: Non-tariff income approved for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Income</td>
<td>38.11</td>
<td>38.11</td>
</tr>
<tr>
<td>Other Income</td>
<td>1.56</td>
<td>1.56</td>
</tr>
</tbody>
</table>
5.15 Aggregate revenue requirement for FY 2012-13

The Aggregate Revenue Requirement (ARR), approved in the Tariff order dated 28th March, 2012, claimed in the revised estimate for FY 2012-13 and considered by the Commission in the Review of ARR for FY 2012-13 is given in the Table below:

Table 5-21: Aggregate revenue requirement for FY 2012-13 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the T.O. for FY 2012-13</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel cost</td>
<td>182.34</td>
<td>174.44</td>
<td>184.61</td>
</tr>
<tr>
<td>Power Purchase</td>
<td>229.25</td>
<td>165.90</td>
<td>168.02</td>
</tr>
<tr>
<td>O&amp;M Expense</td>
<td>121.80</td>
<td>133.75</td>
<td>127.59</td>
</tr>
<tr>
<td>Depreciation</td>
<td>24.31</td>
<td>49.04</td>
<td>24.31</td>
</tr>
<tr>
<td>Interest &amp; Finance Charges</td>
<td>0.35</td>
<td>2.47</td>
<td>0.34</td>
</tr>
<tr>
<td>Interest on Working Capital</td>
<td></td>
<td>11.30</td>
<td></td>
</tr>
<tr>
<td>Return on Equity</td>
<td>16.52</td>
<td>19.40</td>
<td>16.52</td>
</tr>
<tr>
<td>Aggregate Revenue Requirement (ARR)</td>
<td>16.52</td>
<td>556.30</td>
<td>521.40</td>
</tr>
<tr>
<td>Less:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Tariff Income</td>
<td>30.91</td>
<td>39.67</td>
<td>42.01</td>
</tr>
<tr>
<td>Net ARR</td>
<td>543.66</td>
<td>516.63</td>
<td>479.39</td>
</tr>
</tbody>
</table>

5.16 Revenue for FY 2012-13

Petitioner’s submission

TSECL has projected the revenue from intra-state energy sales at 288.23 Crore and inter-state energy sales at Rs. 98.07 Crore for FY 2012-13 as detailed in the Table below.
In addition to the above, the Petitioner has also showed Rs. 40 Crore as revenue subsidy received from the State Government in FY 2012-13. Therefore, the total revenue for FY 2012-13 projected by the Petitioner is Rs. 426.31 Crore.

Commission’s Analysis

The Commission in its previous Tariff Order has approved the revenue from energy sales at Rs. 425.95 Crore, excluding subsidy. The Commission has observed that the Petitioner has projected less revenue from the sale of power to Manipur and Mizoram and from inter-state sales/ trading in the tune of Rs. 5.89 Crore and Rs. 33.43 Crore respectively. Non-Commissioning of the Palatana power plant is the main reason for less realization of energy sales of the Petitioner in FY 2012-13.

The Commission has also noted that the Petitioner has already received Rs. 40 Crore as revenue subsidy from the State Government.

The Commission, accordingly approves Rs. 426.31 Crore in the Review of ARR for FY 2012-13, as shown in the following Table.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale/ retail supply tariff</td>
<td>288.23</td>
</tr>
<tr>
<td>Revenue from sale to Manipur and Mizoram</td>
<td>44.95</td>
</tr>
<tr>
<td>Revenue from inter-state sales/ trading</td>
<td>53.12</td>
</tr>
<tr>
<td>Total Revenue from Sale of Power</td>
<td>386.31</td>
</tr>
</tbody>
</table>
Table 5-23: Approved Revenue for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the T.O. for FY 2012-13</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale</td>
<td>288.56</td>
<td>288.23</td>
<td>288.23</td>
</tr>
<tr>
<td>Revenue from sale to Manipur and Mizoram</td>
<td>50.84</td>
<td>44.95</td>
<td>44.95</td>
</tr>
<tr>
<td>Revenue from inter-state sales/ trading</td>
<td>86.55</td>
<td>53.12</td>
<td>53.12</td>
</tr>
<tr>
<td>Subsidy</td>
<td>0.00</td>
<td>40.00</td>
<td>40.00</td>
</tr>
<tr>
<td>Total Revenue</td>
<td>425.95</td>
<td>426.31</td>
<td>426.31</td>
</tr>
</tbody>
</table>

5.17 Revenue gap and surplus

Revenue gap/surplus approved for FY 2012-13 is shown in the Table below:

Table 5-24: Revenue gap/surplus approved for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved in the T.O. for FY 2012-13</th>
<th>Petitioner’s submission (RE)</th>
<th>Approved in the Review for FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net ARR</td>
<td>543.66</td>
<td>516.63</td>
<td>479.39</td>
</tr>
<tr>
<td>Less: Revenue</td>
<td>425.95</td>
<td>426.31</td>
<td>426.31</td>
</tr>
<tr>
<td>Revenue (gap)/ surplus</td>
<td>(117.71)</td>
<td>(90.32)</td>
<td>(53.08)</td>
</tr>
</tbody>
</table>

Based on the above the Commission has approved the revenue gap for FY 2012-13 at Rs. 53.08 Crore.
6. Aggregate Revenue Requirement (ARR) for the FY 2013-14

This Chapter deals with determination of Aggregate Revenue Requirement (ARR) for FY 2013-14.

6.1 Energy Sales

6.1.1 Petitioner's Approach

The Petitioner has forecasted the category wise energy sales by considering 10.5% growth across all the consumer categories. The energy sales projection for FY 2013-14 is based on the Resource Plan for FY 2013-14 of the Petitioner. The Petitioner has assumed that energy sales to all the consumer categories will grow at the same rate across all the consumer categories.

6.1.2 Commission’s Approach

The Commission has adopted a more consistent approach to determine the projected energy sales for FY 2013-14. The Commission's approach is based on the trend analysis of energy sales in the past years, which is reasonably accurate and well-accepted method for estimating the energy sales. The Commission has projected the energy sales on compound annual growth rate (CAGR) during the past years. Wherever the average has seemed unreasonable or unsustainable, the growth factors have been adjusted to arrive at more realistic projections.

6.1.3 Category-wise projected energy sales for FY 2013-14

Category-wise break up of past energy sales and projection for FY 2013-14 as submitted by the Petitioner in the Supplementary Petition is given in the Table below:
Table 6-1: Category-wise energy sales and projection for FY 2013-14

<table>
<thead>
<tr>
<th>Category</th>
<th>FY 2009-10 (A)</th>
<th>FY 2010-11 (A)</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (RE)</th>
<th>Growth rate</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>12.03</td>
<td>18.02</td>
<td>16.66</td>
<td>16.78</td>
<td>10.50%</td>
<td>18.55</td>
</tr>
<tr>
<td>Domestic</td>
<td>250.21</td>
<td>290.8</td>
<td>324.41</td>
<td>371.59</td>
<td>10.50%</td>
<td>410.78</td>
</tr>
<tr>
<td>Public lighting*</td>
<td>24.43</td>
<td>28.10</td>
<td>25.60</td>
<td>34.08</td>
<td>10.50%</td>
<td>37.68</td>
</tr>
<tr>
<td>Commercial</td>
<td>46.65</td>
<td>54.23</td>
<td>60.35</td>
<td>63.65</td>
<td>10.50%</td>
<td>70.37</td>
</tr>
<tr>
<td>Irrigation</td>
<td>39.73</td>
<td>37.55</td>
<td>28.81</td>
<td>15.58</td>
<td>10.50%</td>
<td>17.23</td>
</tr>
<tr>
<td>Public water works</td>
<td>44.39</td>
<td>48.09</td>
<td>47.7</td>
<td>23.78</td>
<td>10.50%</td>
<td>26.29</td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LT</td>
<td>30.21</td>
<td>30.76</td>
<td>31.39</td>
<td>39.58</td>
<td>10.50%</td>
<td>43.75</td>
</tr>
<tr>
<td>HT</td>
<td></td>
<td></td>
<td></td>
<td>18.87</td>
<td>10.50%</td>
<td>20.86</td>
</tr>
<tr>
<td>Bulk supply</td>
<td>46.44</td>
<td>60.74</td>
<td>88.65</td>
<td>105.41</td>
<td>10.50%</td>
<td>116.52</td>
</tr>
<tr>
<td>Tea Garden</td>
<td>0.48</td>
<td>0.55</td>
<td>0.61</td>
<td>0.67</td>
<td>10.50%</td>
<td>0.74</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>494.56</strong></td>
<td><strong>568.83</strong></td>
<td><strong>624.17</strong></td>
<td><strong>689.99</strong></td>
<td></td>
<td><strong>762.77</strong></td>
</tr>
</tbody>
</table>

* including special public utility

The Petitioner vide letter date April 24th, 2013 has submitted the actual category wise break-up of energy sales for FY 2012-13 and revised projection for FY 2013-14 as shown in the Table below.

Table 6-2: Actual energy sales for FY 2012-13 and projection for FY 2013-14

<table>
<thead>
<tr>
<th>Category</th>
<th>FY 2012-13</th>
<th>FY 2013-14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supplementary Petition (RE)</td>
<td>Submisison dated April 26th 2013 (Actual)</td>
</tr>
<tr>
<td>Kutir Jyoti</td>
<td>16.78</td>
<td>16.47</td>
</tr>
<tr>
<td>Domestic</td>
<td>371.59</td>
<td>356.73</td>
</tr>
<tr>
<td>Public lighting*</td>
<td>34.08</td>
<td>28.21</td>
</tr>
<tr>
<td>Commercial</td>
<td>63.65</td>
<td>68.60</td>
</tr>
<tr>
<td>Irrigation</td>
<td>15.58</td>
<td>37.17</td>
</tr>
<tr>
<td>Public water works</td>
<td>23.78</td>
<td>63.73</td>
</tr>
<tr>
<td>Industrial</td>
<td>58.45</td>
<td>38.79</td>
</tr>
<tr>
<td>Bulk supply</td>
<td>105.41</td>
<td>87.23</td>
</tr>
<tr>
<td>Tea Garden</td>
<td>0.67</td>
<td>0.56</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>689.99</strong></td>
<td><strong>697.50</strong></td>
</tr>
</tbody>
</table>
It can be seen from the Table 6-2 that the actual energy sales in the commercial, public water works and irrigation categories are higher with respect to the estimates made in the Supplementary Petition. However, the actual energy sales in domestic, public lighting, commercial and industrial categories were lower than that of estimated by the Petitioner in the Supplementary Petition.

The Commission has also observed that the Petitioner has not made any revision with respect to the projection of energy sales for FY 2013-14 by considering the actual energy sales data for FY 2012-13.

6.1.4 Consumer profile and connected load

The Petitioner has also furnished the category-wise number of consumers and the connected load for past three years, as given below:

No. of consumers

Table 6-3: No. of consumers from FY 2011-12 to FY 2013-14

<table>
<thead>
<tr>
<th>Category</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>61,028</td>
<td>65,354</td>
<td>90,590</td>
</tr>
<tr>
<td>Domestic</td>
<td>410,647</td>
<td>441,680</td>
<td>483,969</td>
</tr>
<tr>
<td>Commercial*</td>
<td>44,042</td>
<td>46,586</td>
<td>49,751</td>
</tr>
<tr>
<td>Irrigation</td>
<td>4,321</td>
<td>4,674</td>
<td>6,036</td>
</tr>
<tr>
<td>Public water works</td>
<td>3,232</td>
<td>3,748</td>
<td>4,515</td>
</tr>
<tr>
<td>Industrial</td>
<td>4,578</td>
<td>4,744</td>
<td>4,775</td>
</tr>
<tr>
<td>Public lighting</td>
<td>1,207</td>
<td>1,302</td>
<td>1,504</td>
</tr>
<tr>
<td>Bulk supply</td>
<td>818</td>
<td>947</td>
<td>942</td>
</tr>
<tr>
<td>Tea Garden</td>
<td>29</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>529,902</strong></td>
<td><strong>569,064</strong></td>
<td><strong>642,111</strong></td>
</tr>
</tbody>
</table>

* Included 750 and 800 nos. of Mobile Tower consumers for FY 2012-13 (A) and 2013-14 (P) respectively.
Connected load

Table 6-4: Connected load from FY 2011-12 to FY 2013-14

<table>
<thead>
<tr>
<th>Category</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Domestic</td>
<td>122</td>
<td>132</td>
<td>149</td>
</tr>
<tr>
<td>Commercial</td>
<td>26</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>Irrigation</td>
<td>17</td>
<td>20</td>
<td>23</td>
</tr>
<tr>
<td>Public water works</td>
<td>29</td>
<td>34</td>
<td>41</td>
</tr>
<tr>
<td>Industrial</td>
<td>61</td>
<td>62</td>
<td>68</td>
</tr>
<tr>
<td>Public lighting</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Bulk supply</td>
<td>27</td>
<td>29</td>
<td>31</td>
</tr>
<tr>
<td>Tea Garden</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>297</strong></td>
<td><strong>322</strong></td>
<td><strong>361</strong></td>
</tr>
</tbody>
</table>

6.2 Detailed Analysis of energy sales projected

(A) Kutir Jyoti (BPL)

Petitioner’s submission

The Petitioner has submitted that at the end of FY 2012-13, it had 65,354 Kutir Jyoti consumers. Further, the Petitioner has planned an addition of 25,236 Kutir Jyoti connections in FY 2013-14. Hence, the Petitioner would be providing 90,590 Kutir Jyoti connections in FY 2013-14.

The Petitioner’s projection on addition of the number of Kutir Jyoti consumers for FY 2013-14 is based on the ongoing rural electrification work undertaken in various districts in Tripura.

The Petitioner has shown the estimated energy sales in FY 2012-13 to the Kutir Jyoti consumers at 16.78 MU. The Petitioner has considered 10.5% growth in energy sales for the Kutir Jyoti category in FY 2013-14. Based on this assumption the Petitioner has projected the total energy sales to this category at 18.55 MU.
Commission’s Analysis

The Commission has observed that the energy sales in the Kutir Jyoti category had increased over the past three years by the CAGR of 5%. The Commission found that the growth rate of 10.5% considered by the Petitioner for this category is on a higher side. The actual sales to Kutir Jyoti category in 2012-13 are shown as 16.47 MU. Accordingly, the Commission has used the CAGR of 5% and approves the energy sales to the Kutir Jyoti category at 17.22 MU for FY 2013-14.

(B) Domestic

Petitioner’s submission

The Petitioner has projected the energy sales to the domestic category for FY 2012-13 at 410.78 MU.

The Petitioner has submitted that it is expected to release more than 42000 domestic connections in FY 2013-14. In relation to that the connected load of the domestic consumer will increase from 132 MW in FY 2012-13 to 149 MW in FY 2013-14.

It is submitted that that the Petitioner expects a growth of 10.5% for FY 2013-14.

Commission’s Analysis

The sales to this category constitute about 52% of total energy sales of Tripura (FY2012-13). The Petitioner expects a growth rate of 10.5% during the FY 2013-14. Since the consumption pattern of domestic consumers in the State has shown an upward trend and more than 42,000 pending connections to be released in FY 2013-14, the growth rate of 10.5% is marginally on a lower side. The Commission has observed that the energy sales growth in the last 5 years was around 12% and considered the same for projection of energy sales for this category.
The Commission accordingly, approves the energy sales to the domestic category at 399.60 MU for FY 2013-14.

(C) Commercial

The Petitioner has projected the energy sales for the commercial category for FY 2012-13 at 70.37 MU.

The CAGR over the 5-year period 2008-09 to 2012-13 was 14% and the growth over the 3-year period for FY 2010-11 to FY 2012-12 was 6%. At present, the energy sold to the commercial category includes the mobile tower consumers. Due to insufficient data, the Commission could not ascertain the actual sales to the mobile tower consumers for FY 2012-13. Since, the Commission has considered the mobile tower category as a separate consumer category in this Order, the energy sales to the mobile tower category has been deducted to project the energy sales in the commercial category in FY 2013-14. Accordingly, the Commission has considered 5% growth rate for the commercial category.

The Commission accordingly, approves the energy sales to the commercial category at 71.97 MU for FY 2013-14.

(D) Mobile Tower

As mentioned earlier, the Mobile Tower consumers included in the commercial category. The Commission has created a separate category for this type of consumers.

The Petitioner in its Petition has projected the energy sales to this category in FY 2013-14. The consumption of Mobile Tower category is arrived at on the basis of 2,292 kWh/month (as per actual for FY 2012-13) for 800 consumers.

The Commission accordingly, approves the energy sales for the Mobile Tower category at 22.00 MU for FY 2013-14.
(E) Irrigation

The consumption by the irrigation pumpsets accounts for about 5% of total energy sales of the Petitioner. The irrigation pumpsets are segregated into two slabs i.e. upto 5 H.P and above 5 H.P. The Petitioner in its Petition has estimated the total energy sales in this category for FY 2013-14 at 17.23 MU. The actual energy sales to this category in FY 2012-13 were 37.17 MU. The Petitioner has not submitted any justification for projecting lower consumption in this category as compare to the actual consumption recorded in the previous year.

To compute the energy consumption in this category the Commission has considered the previous two years consumption pattern in this category as shown below.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Upto 5 H.P.</th>
<th>Above 5 H.P.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>Total consumption (MU) in FY 2011-12 (A)</td>
<td>9.63</td>
<td>19.18</td>
<td>28.81</td>
</tr>
<tr>
<td>(B)</td>
<td>Total number of consumer in FY 2011-12 (A)</td>
<td>2638</td>
<td>1683</td>
<td>4321</td>
</tr>
<tr>
<td>(C)</td>
<td>Yearly average consumption in FY 2011-12 (A) (kWh/ consumer)</td>
<td>3650</td>
<td>11396</td>
<td></td>
</tr>
<tr>
<td>(D)</td>
<td>Total consumption (MU) in FY 2012-13 (A)</td>
<td>9.02</td>
<td>28.15</td>
<td>37.17</td>
</tr>
<tr>
<td>(E)</td>
<td>Total number of consumer in FY 2012-13 (A)</td>
<td>2921</td>
<td>1753</td>
<td>4674</td>
</tr>
<tr>
<td>(F)</td>
<td>Yearly average consumption in FY 2012-13 (A) (kWh/ consumer)</td>
<td>3088</td>
<td>16058</td>
<td></td>
</tr>
<tr>
<td>(G)</td>
<td>Average of (C) and (F)</td>
<td>3369</td>
<td>13272</td>
<td></td>
</tr>
<tr>
<td>(H)</td>
<td>Average consumption considered by the Commission for FY 2013-14 (The average consumption showing a downward trend. The Commission, therefore fixed the average)</td>
<td>2700</td>
<td>13000        (The Commission, fixed the average consumption in this slab at 13000 after rounding off)</td>
<td></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Particulars</td>
<td>Upto 5 H.P.</td>
<td>Above 5 H.P.</td>
<td>Total</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------</td>
<td>-------------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td>consumption in this slab at 2700 after rounding off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(I)</td>
<td>Total number of consumers projected for FY 2013-14</td>
<td>3685</td>
<td>2351</td>
<td>6036</td>
</tr>
<tr>
<td>(J)</td>
<td>Total consumption (MU) (H*I)/10^6</td>
<td>9.95</td>
<td>30.57</td>
<td>40.52</td>
</tr>
</tbody>
</table>

The Commission accordingly, approves the energy sales for the irrigation category at 40.52 MU for FY 2013-14.

(F) Industrial (HT&LT)

The Petitioner has projected the energy sales of this category at 64.61 MU for FY 2013-14. The Petitioner has shown the actual energy sold in FY 2012-13 at 38.79 MU.

Commission has analysed the past trends growth rate in this category and has found it is reasonable to assume the five (5) year (FY 2007-08 to FY 2012-13) CAGR of 14% for approving the energy sales for FY 2013-14 for this category.

The Commission accordingly, approves the energy sales to Industrial (HT&LT) at 50.56 MU for FY 2013-14.

(G) Bulk Supply

The Petitioner has projected the energy sales of bulk supply category at 116.52 MU for FY 2013-14. The actual energy sold in this category in FY 2012-13 was 87.23 MU.

The Commission has observed that in the last three years energy sales in this category have been growing at a CAGR of 15%.
The Commission, accordingly approves the energy sales to bulk supply category at 100.31 MU for FY 2013-14.

(H) Tea, coffee & rubber garden

The Petitioner has projected the energy sales for this category at 0.74 MU in FY 2013-14. The actual energy sold in this category in FY 2012-13 was 0.74 MU.

The energy sold to this category had been increased by 5% in the last 5 years. The Commission considers this growth rate for projecting the energy sales in this category for FY 2013-14.

The Commission, accordingly approves the energy sales to this category at 0.74 MU for FY 2013-14.

(I) Water Works

The Petitioner has projected the energy sales for this category at 26.29 MU in FY 2013-14. The actual energy sales to this category in FY 2012-13 were 63.73 MU. The Petitioner has not submitted any justification for projecting lower consumption in this category as compare to the actual consumption recorded in the previous year.

The energy sold to this category had been increased by 10% in the last 5 years. The Commission considers this growth rate for projecting the energy sales in this category for FY 2013-14.

The Commission, accordingly approves the energy sales to this category at 73.29 MU for FY 2013-14.
(J) Public Lighting

The Petitioner has projected the energy sales for this category at 37.68 MU in FY 2013-14. The actual energy sales to this category in FY 2012-13 were 26.37 MU.

The Commission has observed huge variations in sales growth over the last 5 years in this category. The Commission has considered 15% growth rate for this in FY 2013-14 and accordingly approves the energy sales to Public Lighting category at 30.33 MU for FY 2013-14.

(K) Special Public Utility

TSECL has not projected any energy sales for this category in FY 2013-14. Energy consumption in this category is very marginal. The Commission approves energy sales to Special Public Utility at 2.04 MU for FY 2013-14.

6.2.1 Category-wise energy sales approved for FY 2013-14

The category wise energy sales for FY 2013-14 as discussed above and approved by the Commission in various consumer categories are given in the following Table.

Table 6-6: Category-wise energy sales approved for FY 2013-14

<table>
<thead>
<tr>
<th>Category</th>
<th>Petitioner’s submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti</td>
<td>18.55</td>
<td>17.22</td>
</tr>
<tr>
<td>Domestic</td>
<td>410.78</td>
<td>399.60</td>
</tr>
<tr>
<td>Commercial</td>
<td>70.37</td>
<td>71.97</td>
</tr>
<tr>
<td>Mobile Tower</td>
<td>--</td>
<td>22.00</td>
</tr>
<tr>
<td>Irrigation</td>
<td>17.23</td>
<td>40.52</td>
</tr>
<tr>
<td>Public water works</td>
<td>26.29</td>
<td>73.29</td>
</tr>
<tr>
<td>Industrial</td>
<td>64.61</td>
<td>50.56</td>
</tr>
<tr>
<td>Bulk supply</td>
<td>116.52</td>
<td>100.31</td>
</tr>
<tr>
<td>Tea Garden</td>
<td>0.74</td>
<td>0.74</td>
</tr>
<tr>
<td>Public lighting*</td>
<td>37.68</td>
<td>30.33</td>
</tr>
<tr>
<td>Special category</td>
<td></td>
<td>2.04</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>762.77</strong></td>
<td><strong>808.58</strong></td>
</tr>
</tbody>
</table>
6.3 Own generation

TSECL owns and operates the following generating stations:

- One hydro-electric station at Gomuti
- Two gas based thermal stations at Rokhia and Baramura
- One diesel based unit

The details of the existing stations along with their capacities and dates of commissioning are given in Table 4.1 below:

Table 6-7: Installed capacity, COD and existing status of TSECL’s generating stations

<table>
<thead>
<tr>
<th>Name of plant</th>
<th>Unit</th>
<th>Unit wise Capacity (MW)</th>
<th>Available Installed Capacity (MW)</th>
<th>Year of Commission</th>
<th>Status during FY 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gomti Hydro-electric Project (GHEP)</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>1976</td>
<td>In operation.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>5</td>
<td>5</td>
<td>1976</td>
<td>Only 2 units run at a time keeping other unit standby alternately.</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>1984</td>
<td></td>
</tr>
<tr>
<td><strong>Sub-Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rokhia Gas Thermal Power Plant (RGTPP)</td>
<td>1</td>
<td>8</td>
<td>0</td>
<td>1990</td>
<td>Retired</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>8</td>
<td>0</td>
<td>1990</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>8</td>
<td>8</td>
<td>1995</td>
<td>Under Maintenance</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>1995</td>
<td>In Operation</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>1997</td>
<td>Under Maintenance</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>8</td>
<td>8</td>
<td>1997</td>
<td>Under Maintenance for part of the year</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>21</td>
<td>21</td>
<td>2002</td>
<td>In Operation</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>21</td>
<td>21</td>
<td>2006</td>
<td></td>
</tr>
<tr>
<td><strong>Sub-Total</strong></td>
<td><strong>90</strong></td>
<td><strong>74</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baramura Gas</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>1986</td>
<td>Retired</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>5</td>
<td>0</td>
<td>1986</td>
<td></td>
</tr>
<tr>
<td>Name of plant</td>
<td>Unit</td>
<td>Unit wise Capacity (MW)</td>
<td>Available Installed Capacity (MW)</td>
<td>Year of Commission</td>
<td>Status during FY 2011-12</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------</td>
<td>-------------------------</td>
<td>----------------------------------</td>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Thermal Power Plant (BGTPP)</td>
<td>3</td>
<td>6.5</td>
<td>0</td>
<td>1990</td>
<td>In Operation</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>21</td>
<td>21</td>
<td>2002</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>21</td>
<td>21</td>
<td>2010</td>
<td></td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td></td>
<td><strong>58.5</strong></td>
<td><strong>42</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Generation units</td>
<td></td>
<td><strong>5.85</strong></td>
<td><strong>1</strong></td>
<td>Before 1947</td>
<td>Only 1 MW is in operation</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>169.35</strong></td>
<td><strong>132</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Petitioner's submission**

The gross and net generation of different stations as furnished by TSECL for FY 2013-14, are given in Table 6-8 below:

**Table 6-8: Gross and net generation projected for FY 2013-14 (MU)**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>FY 2013-14 (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gomti Hydro Electric Plant (GHEP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>15</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>12</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>47.66%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>50.10</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>0.70%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>0.35</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>49.75</td>
</tr>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>95</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>95</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>53.53%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>445.50</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>4.46</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>441.05</td>
</tr>
<tr>
<td><strong>Baramura gas based thermal power plant (BGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>42</td>
</tr>
<tr>
<td>Particulars</td>
<td>Unit</td>
<td>FY 2013-14 (Projected)</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>------</td>
<td>------------------------</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>42</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>95.13%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>350.00</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>3.50</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>346.50</td>
</tr>
</tbody>
</table>

**Diesel Generating Plant**
- Installed Capacity: MW 1
- Net units generated: MUs 1.00

**Total Own Generation**
- Installed Capacity: MW 153
- De-rated Capacity: MW 150
- Gross Generation: MUs 846.60
- Auxiliary Consumption: MUs 8.31
- Net units generated: MUs 838.29

The Petitioner has considered generation from the additional 21 MW unit in RGTPP from July 2013 onwards.

The Petitioner has projected total gross and net generation from its own generating stations at 846.60 MU and 838.29 MU respectively for FY 2013-14.

**Commission’s Analysis**
To approve the gross and net generation of TSECL in FY 2013-14, the Commission has adopted the following approach.
- The Commission has reviewed the existing status of GHEP and BGTPP and considered the PLF and auxiliary consumption as projected by the Petitioner for FY 2013-14.
- The PLF of RGTPP’s existing units has been considered at 59% i.e. as shown in the Review for FY 2012-13. The Commission found no reason to downgrade the PLF of RGTPP from the existing level.
- The Commission has enquired the actual progress of work of the new 21 MW unit in RGTPP. The Commission found that the unit is likely to start its
commercial operation from October 2013. Hence, the Commission has considered generation from this unit for six months in FY 2013-14. The PLF for the said unit has been considered at 53.53% i.e. as projected by the Petitioner.

The gross and net generation of the Petitioner approved by the Commission for FY 2013-14 is shown in the Table below.

Table 6-9: Gross and net generation approved for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Unit</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gomti Hydro Electric Plant (GHEP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>15</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>12</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>47.66%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>50.10</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>0.70%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>0.35</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>49.75</td>
</tr>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP) – Existing units</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>74</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>74</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>59.00%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>382.46</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>3.82</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>378.64</td>
</tr>
<tr>
<td><strong>Rokhia gas based thermal power plant (RGTPP) – New unit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>21</td>
</tr>
<tr>
<td>De-rated Capacity</td>
<td>MW</td>
<td>21</td>
</tr>
<tr>
<td>Plant Load Factor</td>
<td>%</td>
<td>53.53%</td>
</tr>
<tr>
<td>Gross Generation</td>
<td>MUs</td>
<td>49.10</td>
</tr>
<tr>
<td>Aux. Consumption</td>
<td>%</td>
<td>1.00%</td>
</tr>
<tr>
<td>Auxiliary Consumption</td>
<td>MUs</td>
<td>0.49</td>
</tr>
<tr>
<td>Net units generated</td>
<td>MUs</td>
<td>48.61</td>
</tr>
<tr>
<td><strong>Baramura gas based thermal power plant (BGTPP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed Capacity</td>
<td>MW</td>
<td>42</td>
</tr>
</tbody>
</table>
The Commission approves the gross and net generation of 831.67 MU and 823.50 MU respectively for FY 2013-14.

6.4 Power purchase

As mentioned earlier in para 4.1.3, TSECL has firm allocation from the NEEPCO and NHPC.

Petitioner’s submission

Based on the firm allocation from NEEPCO and NHPC, the Petitioner has projected the power purchase for FY 2013-14 at 450 MU.

The projected power purchase of the Petitioner for FY 2013-14 is shown in the following Table.

<table>
<thead>
<tr>
<th>Source</th>
<th>Quantum (MU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>390.00</td>
</tr>
<tr>
<td>NHPC</td>
<td>60.00</td>
</tr>
<tr>
<td>Total</td>
<td>450.00</td>
</tr>
</tbody>
</table>
The Petitioner has not projected any power purchase from OTPC Palatana, as it considered the plant would not start its commercial operation in FY 2013-14.

**Commission’s Analysis**

While projecting the power purchase for FY 2013-14, the Commission has considered the actual power purchased of the Petitioner in FY 2013-14. The power purchase from NEEPCO and NHPC plants for FY 2013-14 has been kept at the same level of FY 2012-13 by the Commission.

The Petitioner has the firm allocation of 98 MW from the first unit of OTPC Palatana, which have the capacity of 363 MW. The first unit of OTPC Palatana has started its trial run in the second week of May 2013 and would likely to start its commercial operation soon. At present, the first unit is not operating at its full capacity. Considering the above facts, the Commission considers that the Petitioner would get 2/3\(^{rd}\) of its firm allocation of 98 MW for the six months of FY 2013-14.

Based on the above considerations, the Commission has approved the power purchase for FY 2013-14, as shown in the Table below:

<table>
<thead>
<tr>
<th>Source</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>390.00</td>
<td>364.29</td>
</tr>
<tr>
<td>NHPC</td>
<td>60.00</td>
<td>59.28</td>
</tr>
<tr>
<td>OTPC Palatana</td>
<td>-</td>
<td>269.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>450.00</strong></td>
<td><strong>693.07</strong></td>
</tr>
</tbody>
</table>

The Commission, accordingly approves power purchase of 693.07 MU for FY 2013-14.
6.5 Energy requirement and energy balance

The summary of energy requirement and energy balance projected by the Petitioner for FY 2013-14 as given below:

Table 6-12: Energy requirement and energy balance projected for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Requirement</td>
<td></td>
</tr>
<tr>
<td>Energy Sales within State</td>
<td>762.77</td>
</tr>
<tr>
<td>Sale in bilateral trade/ UI</td>
<td>280.40</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>218.79</td>
</tr>
<tr>
<td>T&amp;D Losses (%)</td>
<td>22.29%</td>
</tr>
<tr>
<td>Total Energy Requirement at TSECL’s periphery</td>
<td>981.56</td>
</tr>
<tr>
<td>Energy Availability</td>
<td></td>
</tr>
<tr>
<td>Own Generation</td>
<td>838.29</td>
</tr>
<tr>
<td>Power Purchase</td>
<td>450.00</td>
</tr>
<tr>
<td>Gross Power Availability</td>
<td>1,288.29</td>
</tr>
<tr>
<td>NER loss</td>
<td>26.34</td>
</tr>
<tr>
<td>Net Power Availability</td>
<td>1261.96</td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Commission has analysed the energy requirement as per sale and availability of power and accordingly calculated the energy balance for FY 2013-14, which is shown in the Table below.

Table 6-13: Energy balance approved for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Sales within State</td>
<td>762.77</td>
<td>808.58</td>
</tr>
<tr>
<td>Sale in bilateral trade/ UI</td>
<td>280.40</td>
<td>449.74</td>
</tr>
<tr>
<td>T&amp;D Losses</td>
<td>218.79</td>
<td>228.06</td>
</tr>
<tr>
<td>T&amp;D Losses (%)</td>
<td>22.29%</td>
<td>22.00%</td>
</tr>
<tr>
<td>Total Energy Requirement at TSECL’s periphery</td>
<td>981.56</td>
<td>1036.64</td>
</tr>
<tr>
<td>Energy Availability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Own Generation</td>
<td>838.29</td>
<td>823.50</td>
</tr>
</tbody>
</table>
The Commission has set the T&D losses based on the loss trajectory proposed by the Petitioner in the Supplementary Petition (Page 14). The Commission has reviewed the same and fixed the target for T&D losses at 22.00% for the year 2013-14 i.e. nominally lower than that of proposed by the Petitioner. In Commission’s view the target set for FY 2013-14 is achievable if proper steps are taken.

### 6.6 Fuel purchase cost

**Petitioner’s submission**

The Petitioner has projected the fuel cost for FY 2013-14 at Rs. 195.24 Crore. The summary of the fuel cost projected by the Petitioner is presented below:

<table>
<thead>
<tr>
<th>Particulars</th>
<th>FY 2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fuel Quantity (MMSCM)</td>
</tr>
<tr>
<td>GAIL (RGTPPP)</td>
<td>185.87</td>
</tr>
<tr>
<td>ONGCL (RGTPP)</td>
<td>16.50</td>
</tr>
<tr>
<td>GAIL (BGTPP)</td>
<td>73.25</td>
</tr>
<tr>
<td>ONGC (BGTPP)</td>
<td>68.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>344.12</strong></td>
</tr>
</tbody>
</table>

The fuel cost included the additional fuel purchase cost for the 21 MW new unit in RGTPPP.
Commission’s Analysis

The Commission has computed the weighted average fuel cost for RGTPP and BGTPP based on the actual fuel purchase cost for FY 2013-14. Further, the Commission has considered the fuel purchase cost for the 21 MW new unit in RGTPP for 6 months against 9 months projected by the Petitioner.

The approved fuel cost for FY 2013-14 is tabulated below:

Table 6-15: Fuel purchase cost approved for FY 2013-14

<table>
<thead>
<tr>
<th>Plants</th>
<th>Approved by the Commission (Crore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGTPP (existing units)</td>
<td>79.53</td>
</tr>
<tr>
<td>RGTPP (new unit)</td>
<td>12.34</td>
</tr>
<tr>
<td>BGTPP</td>
<td>96.11</td>
</tr>
<tr>
<td>Total</td>
<td>187.98</td>
</tr>
</tbody>
</table>


6.7 Power purchase cost

Petitioner’s submission

The Petitioner has projected power purchase cost at Rs. 165.90 Crore for FY 2013-14. The summary of power purchase cost for FY 2013-14 as submitted by the Petitioner are tabulated below:

Table 6-16: Power purchase cost projected for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Amount (Rs./Crore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEEPCO</td>
<td>124.80</td>
</tr>
<tr>
<td>NHPC</td>
<td>19.50</td>
</tr>
<tr>
<td>PGCIL</td>
<td>21.60</td>
</tr>
<tr>
<td>Total</td>
<td>165.90</td>
</tr>
</tbody>
</table>
The Petitioner has considered average power purchase rates from NEEPCO and NHPC at Rs. 3.20 per unit Rs. 3.25 per unit for FY 2013-14. The Petitioner has projected the total transmission charges at Rs. 21.60 Crore.

**Commission’s Analysis**

The Commission has considered the plant-wise actual per unit cost paid by the Petitioner in FY 2012-13 to project the power purchase cost for FY 2013-14.

The Petitioner, initially has not considered the power purchase cost from Palatana in FY 2013-14. However, the Petitioner vide letter dated may 24th, 2013 has requested the Commission to use its judgement to consider the power purchase from Palatana in FY 2013-14. The Commission has reviewed of actual progress of work of the Palatana Plant and found that the trial run has already started from the second week of May. The commercial operation would likely to start from October 2013. As the Petitioner will born the fixed cost from the date of CoD, the Commission consider that it is prudent to include the power purchase cost from Palatana in FY 2013-14.

As the tariff for Palatana has not been approved by the CERC, the Commission has provisionally considered the rate of Rs. 2.74 per unit.

Further, the Commission has also considered the additional transmission charges on account of power purchase from the Palatana plant and accordingly approved additional transmission charges amounted to Rs. 6.58 Crore for FY 2013-14.

The Commission has also considered the 2% rebate on power purchase on timely payment of power purchase bills.

The Approved power purchase cost for FY 2013-14 is shown in the Table below:
### Table 6-17: Approved power purchase cost for FY 2013-14 (Crore)

<table>
<thead>
<tr>
<th>Source</th>
<th>MU</th>
<th>Fixed Charge</th>
<th>Variable Charge</th>
<th>Rebate</th>
<th>Total</th>
<th>Per Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khandong HEP</td>
<td>8.86</td>
<td>1.61</td>
<td>0.85</td>
<td></td>
<td>2.46</td>
<td>2.77</td>
</tr>
<tr>
<td>Kopili plus Kopili extn HEP</td>
<td>38.02</td>
<td>2.22</td>
<td>1.55</td>
<td></td>
<td>3.77</td>
<td>0.99</td>
</tr>
<tr>
<td>Kopili-stage II</td>
<td>8.53</td>
<td>0.81</td>
<td>0.79</td>
<td></td>
<td>1.60</td>
<td>1.88</td>
</tr>
<tr>
<td>Agartala Gas Turbine Power Plant (AGTPP)</td>
<td>97.38</td>
<td>12.33</td>
<td>23.45</td>
<td></td>
<td>35.78</td>
<td>3.67</td>
</tr>
<tr>
<td>Assam Gas Based Power plant (AGBPP) Kathalguri</td>
<td>108.50</td>
<td>15.55</td>
<td>19.29</td>
<td></td>
<td>34.85</td>
<td>3.21</td>
</tr>
<tr>
<td>Doyang HEP</td>
<td>13.46</td>
<td>3.63</td>
<td>3.52</td>
<td></td>
<td>7.15</td>
<td>5.31</td>
</tr>
<tr>
<td>Ranganadi HEP</td>
<td>89.53</td>
<td>14.12</td>
<td>10.39</td>
<td></td>
<td>24.52</td>
<td>2.74</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>364.29</td>
<td>50.28</td>
<td>59.85</td>
<td>0.00</td>
<td>110.13</td>
<td>3.02</td>
</tr>
<tr>
<td>Loktak Hydro-Electric Power station (HEP)</td>
<td>59.28</td>
<td>7.18</td>
<td>8.20</td>
<td></td>
<td>15.38</td>
<td>2.59</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>59.28</td>
<td>7.18</td>
<td>8.20</td>
<td></td>
<td>15.38</td>
<td>2.59</td>
</tr>
<tr>
<td>OTPC Palatana</td>
<td>269.50</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
<td>73.84</td>
<td>2.74</td>
</tr>
<tr>
<td><strong>Total Power Purchase</strong></td>
<td>693.07</td>
<td>57.45</td>
<td>68.05</td>
<td>0.00</td>
<td>199.35</td>
<td>2.88</td>
</tr>
<tr>
<td>PGCIL Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28.91</td>
<td></td>
</tr>
<tr>
<td>SLDC Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.80</td>
<td></td>
</tr>
<tr>
<td>Other Charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.57</td>
<td></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>693.07</td>
<td></td>
<td></td>
<td></td>
<td>4.98</td>
<td>224.65</td>
</tr>
</tbody>
</table>

The Commission approves power purchase cost of Rs. 224.65 Crore for FY 2013-14.

### 6.8 Operation and maintenance (O&M) cost

O&M expenses comprises of employee cost, repair and maintenance expenses and administrative and general expenses. The O&M expenses projected by the Petitioner for FY 2013-14 are shown in the Table below:

### Table 6-18: O&M cost projected for FY 2013-14 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>113.14</td>
</tr>
<tr>
<td>R&amp;M expenses</td>
<td>22.81</td>
</tr>
<tr>
<td>A&amp;G expenses</td>
<td>15.56</td>
</tr>
</tbody>
</table>
The following section presents head wise analysis of the O&M expenses.

(a) Employee expense

Petitioner's submission
The Petitioner has projected the employee expense for FY 2013-14 at Rs. 113.14 Crore.

The petitioner has stated that the present employee strength of TSECL is 4194 (FY 2012-13). A good number of these employees are working on deputation and the terminal benefits like salary, pension, medical, gratuity etc. of all such employees is borne by TSECL.

The Petitioner has considered a 9.25% increase in the employee expenses for FY 2013-14.

Commission’s Analysis

The Commission has reviewed the actual increase in employee expense from FY 2011-12 to FY 2012-13. The increase in the employee expense during this period was mainly on the pay revision of the State Government employees. This pay revision is not likely to repeat in FY 2013-14. The number of employees in comparison to TSECL’s generation, transmission and distribution business may need suitable re-organization. TSECL must ensure proper utilization of its employees and the productivity of employees should improve.

Based on this review the Commission has considered an escalation of 6% (on the basis of CPI Index) over the actual employee expense for FY 2012-13 to

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total O&amp;M expenses</td>
<td>151.51</td>
</tr>
</tbody>
</table>
compute the employee expense for FY 2013-14. The approved employee expense for FY 2013-14 is presented in the following Table.

Table 6-19: Employee expenses approved for FY 2013-14 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>113.14</td>
<td>102.91</td>
</tr>
</tbody>
</table>

The Commission, accordingly approves the employee expenses of Rs. 102.91 Crore for FY 2013-14.

(b) Repair and maintenance expenses

Petitioner's submission
The Petitioner has projected Rs. 22.81 Crore as R&M expenses in the ARR for FY 2013-14.

Commission’s Analysis
The Commission has observed that the Petitioner has projected the R&M expenses at Rs. 22.81 Crore, which is 1.98% of the projected GFA for FY 2013-14. In FY 2012-13, the actual R&M expenses incurred by the Petitioner were Rs. 14.93 Crore i.e. 1.47% of the projected GFA for FY 2012-13. The Commission considered it is reasonable to allow the R&M expenses for FY 2013-14 at 1.56% of the opening GFA of FY 2013-14 i.e. Rs. 15.83 Crore. The Commission has not considered the closing GFA for this purpose as the Petitioner has not submitted the Capital Expenditure Plan for FY 2013-14 as directed by the Commission in the previous Tariff Order.

The following Table shows the approved R&M expenses for FY2013-14.

Table 6-20: R&M cost approved for FY 2013-14 (Crore)

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>R&amp;M expenses</td>
<td>22.81</td>
<td>15.83</td>
</tr>
</tbody>
</table>
The Commission, accordingly approves the R&M expenses at Rs. 15.83 Crore for FY 2013-14.

(c) Administrative and general (A&G) expenses

Petitioner's submission
The Petitioner has projected the A&G expenses at Rs. 15.56 Crore for FY 2013-14.

The A&G expenses of the petitioner mainly cover expenses for administrative requirements like telephone, electricity, vehicles lease, statutory taxes to be paid etc and payment of outsourced agencies like statutory auditors, legal charges, consultancy fees etc.

Commission’s Analysis
As per the Petitioner’s submission, the actual A&G expenses for FY 2012-13 was Rs. 15.58 Crore. The Commission escalated the actual A&G expenses of FY 2012-13 by 6% based on the CPI Index for the approval of FY 2013-14. The approved A&G expenses for FY 2013-14 is summarised in Table below:

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>A&amp;G expenses</td>
<td>15.56</td>
<td>16.51</td>
</tr>
</tbody>
</table>

The Commission, accordingly approves the A&G expenses at Rs. 16.51 Crore for FY 2013-14.

Total O&M expenses approved by the Commission for FY 2013-14 are depicted below:
Table 6-22: O&M expenses approved for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee expense</td>
<td>113.14</td>
<td>102.91</td>
</tr>
<tr>
<td>R&amp;M expenses</td>
<td>22.81</td>
<td>15.83</td>
</tr>
<tr>
<td>A&amp;G expenses</td>
<td>15.56</td>
<td>16.51</td>
</tr>
<tr>
<td>Total O&amp;M expenses</td>
<td>151.51</td>
<td>135.25</td>
</tr>
</tbody>
</table>

The Commission, accordingly approves the O&M expenses at Rs. 135.25 Crore for FY 2013-14.

6.9 Depreciation

The Petitioner has claimed Rs. 53.40 Crore as depreciation for FY 2013-14.

**Petitioner's submission**

The Petitioner in its petition has shown an addition of Rs. 128.11 Crore in the fixed assets in FY 2013-14. The Petitioner has considered 4.92% as the weighted average depreciation rate and applied the same on the closing GFA of Rs. 1,150.15 Crore.

Based on the above considerations, the depreciation amount claimed by the petitioner is tabulated below:

Table 6-23: Depreciation claimed for FY 2013-14

<table>
<thead>
<tr>
<th>Asset</th>
<th>Depreciation Rate</th>
<th>Closing GFA</th>
<th>Depreciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land</td>
<td>0.00%</td>
<td>70.49</td>
<td>-</td>
</tr>
<tr>
<td>Buildings</td>
<td>2.49%</td>
<td>36.59</td>
<td>0.86</td>
</tr>
<tr>
<td>Plant and Machinery</td>
<td>5.28%</td>
<td>1,036.15</td>
<td>51.66</td>
</tr>
<tr>
<td>Computers &amp; Accessories</td>
<td>16.21%</td>
<td>0.53</td>
<td>0.08</td>
</tr>
<tr>
<td>Office Equipment</td>
<td>16.21%</td>
<td>4.19</td>
<td>0.64</td>
</tr>
<tr>
<td>Furniture</td>
<td>6.33%</td>
<td>1.53</td>
<td>0.09</td>
</tr>
<tr>
<td>Vehicles</td>
<td>9.50%</td>
<td>0.68</td>
<td>0.06</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td></td>
<td><strong>1,150.15</strong></td>
<td><strong>52.75</strong></td>
</tr>
<tr>
<td><strong>Weighted average depreciation rate</strong></td>
<td></td>
<td></td>
<td><strong>4.92%</strong></td>
</tr>
</tbody>
</table>
Commission’s Analysis

The Petitioner has not adhered by the Commission Directives of submission of Fixed Assets Register and annual capital expenditure plan. In this regard, the Commission will not allow the depreciation claimed by the Petitioner for FY 2013-14.

The Petitioner is again directed to submit the Fixed Assets and Depreciation Register before the Commission for its review and consideration of the depreciation amount claimed by the Petitioner. The Commission will revisit the depreciation matter after preparation and submission of the Fixed Assets Register audited by a Statutory Chartered Accountant in the next year’s Tariff Order.

The Commission, therefore, maintains its earlier stand and accordingly approves the depreciation at Rs. 24.31 for FY 2013-14.

6.10 Reasonable Return

Petitioner’s submission

The Petitioner has claimed reasonable return at Rs. 19.40 Crore in the ARR of FY 2013-14.

The Petitioner has considered the average equity of Rs. 109.29 Crore. The Petitioner has considered the interest rate of 17.75% and apply the same on the average equity.

Commission’s Analysis

The Petitioner has not provided the break-up of the equity in generation, transmission and distribution it is difficult for the Commission to arrive at the normative reasonable return of the Petitioner as per the TERC Tariff Regulations 2004.
In this view, the Commission approves reasonable return at Rs. 16.52 Crore for FY 2012-13.

Table 6-24: Approved reasonable return for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reasonable return</td>
<td>19.40</td>
<td>16.52</td>
</tr>
</tbody>
</table>

6.11 Interest & Finance Charges

Petitioner's submission

The Petitioner has claimed interest and finance charges at Rs. 2.88 Crore in ARR of FY 2013-14.

Commission’s Analysis

The Commission maintains its stand on this issue as taken in the Review for FY 2012-13 and accordingly **approves the interest and finance charges at Rs. 0.34 Crore for FY 2013-14.**

6.12 Interest on working capital

The Petitioner has claimed interest on working capital at Rs. 11.30 Crore in the review of ARR for FY 2012-13. The Petitioner's computation of the normative working capital is based on the un-audited Gross Fixed Assets segregated into generation, transmission and distribution. The following Table shows the Petitioner's computation of working capital for FY 2012-13.

Table 6-25: Working capital for FY 2012-13

<table>
<thead>
<tr>
<th>Working Capital</th>
<th>% age break up of assets</th>
<th>Norms for Working Capital requirement (in days)</th>
<th>FY 2012-13 (RE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>31.76%</td>
<td>45</td>
<td>21.95</td>
</tr>
<tr>
<td>Transmission</td>
<td>7.31%</td>
<td>45</td>
<td>5.05</td>
</tr>
<tr>
<td>Distribution</td>
<td>60.93%</td>
<td>60</td>
<td>56.14</td>
</tr>
<tr>
<td>Working Capital</td>
<td>% age break up of assets</td>
<td>Norms for Working Capital requirement (in days)</td>
<td>FY 2012-13 (RE)</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Total Working Capital requirement</td>
<td></td>
<td></td>
<td>83.14</td>
</tr>
<tr>
<td>Interest Rate (@ SBI PLR on 1st April)</td>
<td></td>
<td></td>
<td>14.75%</td>
</tr>
<tr>
<td>Interest on Working Capital</td>
<td></td>
<td></td>
<td>11.85</td>
</tr>
</tbody>
</table>

**Commission’s Analysis**

The Commission in its previous Tariff Order has directed the Petitioner to submit Fixed Assets and Depreciation Register audited by a statutory Auditor, which is still pending for FY 2011-12 and FY 2012-13. Moreover, TSECL has not taken in loan to meet its working capital requirement in the previous two financial years. The Petitioner’s computation of interest on working capital based on the un-audited GFA. The Commission, hereby, directs the Petitioner to submit the segregation of paid up equity capital into generation, transmission and distribution business audited by a Statutory Auditor and the Commission will look into this matter in the next Tariff Order.

Based on the above, the Commission, accordingly approves the interest on working capital at Rs. Nil in the Review for FY 2013-14.

**6.13 Non-tariff income**

**Petitioner’s submission**

The non-tariff income is in the form of Interest earned on fixed deposits made in various banks and other miscellaneous income like sale of scrap, sale of tender, meter rent, service connection charges etc.

The Petitioner has projected the non-tariff income in the Original and Supplementary Petition at Rs. 5.38 Crore and Rs. 39.67 Crore respective for FY 2013-14. In the Original Petition, the Petitioner has not considered the interest on Fixed Deposit in FY 2013-14.
Commission's Analysis

The Commission has analysed the Petitioner's projection on the non-tariff income for FY 2013-14. The Commission is of the view that the revenue from the non-tariff income will not change much. Therefore, the Commission kept the non-tariff income for FY 2013-14 at Rs. 42.01 Crore i.e. at the same level of FY 2012-13.

The Commission, accordingly approves non-tariff income at Rs. 42.01 Crore for FY 2013-14.

Table 6-26: Non-tariff income approved for FY 2012-13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Tariff Income</td>
<td>39.67</td>
<td>42.01</td>
</tr>
</tbody>
</table>

6.14 Aggregate revenue requirement for FY 2013-14

Based on the above analysis and approvals, the Aggregate Revenue Requirement projected by the Petitioner and approved by the Commission are furnished in the Table 6-27 below.

Table 6-27: Aggregate revenue requirement for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Cost</td>
<td>195.24</td>
<td>187.98</td>
</tr>
<tr>
<td>Power purchase cost</td>
<td>165.90</td>
<td>224.65</td>
</tr>
<tr>
<td>O&amp;M Expenses</td>
<td>151.51</td>
<td>135.25</td>
</tr>
<tr>
<td>Depreciation</td>
<td>53.40</td>
<td>24.31</td>
</tr>
<tr>
<td>Interest on working capital</td>
<td>11.85</td>
<td>0.00</td>
</tr>
<tr>
<td>Interest and finance charges</td>
<td>2.88</td>
<td>0.34</td>
</tr>
<tr>
<td>Reasonable Return</td>
<td>19.40</td>
<td>16.52</td>
</tr>
<tr>
<td><strong>Total ARR</strong></td>
<td><strong>600.18</strong></td>
<td><strong>589.05</strong></td>
</tr>
<tr>
<td>Less: Non Tariff Income</td>
<td>39.67</td>
<td>42.01</td>
</tr>
<tr>
<td><strong>Net ARR</strong></td>
<td><strong>560.51</strong></td>
<td><strong>547.04</strong></td>
</tr>
</tbody>
</table>
6.15 Revenue for FY 2013-14

Petitioner’s submission

The Petitioner has projected the revenue from energy sales at Rs. 425.56 Crore for FY 2013-14 as shown in the Table below.

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Petitioner’s submission (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale/ retail supply tariff</td>
<td>329.16</td>
</tr>
<tr>
<td>Revenue from sale to Manipur and Mizoram</td>
<td>44.95</td>
</tr>
<tr>
<td>Revenue from inter-state trading/UI</td>
<td>51.45</td>
</tr>
<tr>
<td><strong>Total Revenue from Sale of Power</strong></td>
<td><strong>425.56</strong></td>
</tr>
</tbody>
</table>

Commission’s Analysis

The Commission has considered the quantum of energy sales to Manipur and Mizoram at 145 MU i.e. as per the existing level. Energy sales from UI/trading has been worked out by deducting the intra-state sale and sales to Manipur and Mizoram from the total energy availability in FY 2013-14. The Commission has projected 304.74 MU will be sold through UI/trading in FY 2013-14. There will be surplus energy in the State after receiving power from Palatana and this can be sold by the Petitioner from UI/trading.

The Commission has considered the average rate of Rs. 3.10 per unit for estimation of revenue from the sale of energy from Manipur and Mizoram in FY 2013-14. The Petitioner has considered the average rate of Rs. 4.66 per unit from energy sales through UI/trading. The Commission finds that this rate is on a higher side accordingly considers Rs. 4.50 per unit from energy sales through UI/trading in FY 2013-14.

The Commission also observed that the Petitioner has not followed the tariff rate issued by the Commission in the previous Tariff Order and computed the revenue from intra-state sales on the post subsidized tariff rates, which is lower than the approved tariff rates. The Commission has considered the
category-wise and slab-wise tariff rates approved in the last Tariff Order and computed the revenue for intra-state energy sale for FY 2013-14.

Based on the above total revenue approved by the Commission at the existing tariff is presented in the Table below:

### Table 6-29: Approved revenue for FY 2013-14

<table>
<thead>
<tr>
<th>Particular</th>
<th>Petitioner's submission (Projected)</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue from intra-state sale/ retail supply tariff</td>
<td>329.16</td>
<td>378.95</td>
</tr>
<tr>
<td>Revenue from sale to Manipur and Mizoram</td>
<td>44.95</td>
<td>44.95</td>
</tr>
<tr>
<td>Revenue from inter-state trading/UI</td>
<td>51.45</td>
<td>137.13</td>
</tr>
<tr>
<td><strong>Total Revenue from Sale of Power</strong></td>
<td>425.56</td>
<td>561.03</td>
</tr>
</tbody>
</table>

#### 6.16 Revenue gap and surplus

Revenue gap/surplus approved for FY 2013-14 is shown in the Table below:

### Table 6-30: Approved Revenue gap/surplus for FY 2013-14

<table>
<thead>
<tr>
<th>Particular</th>
<th>As per petition</th>
<th>Revised estimate</th>
<th>As per petition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net ARR</td>
<td>465.40</td>
<td>479.39</td>
<td>547.04</td>
</tr>
<tr>
<td>Less: Revenue</td>
<td>385.87</td>
<td>426.31</td>
<td>561.03</td>
</tr>
<tr>
<td>Revenue (gap)/ surplus</td>
<td>(79.53)</td>
<td>(53.08)</td>
<td>13.99</td>
</tr>
<tr>
<td>Previous Years' (gap)/ surplus carried over from FY 2011-12</td>
<td>(132.61)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net (Gap)/Surplus to be addressed</td>
<td></td>
<td></td>
<td>(118.61)</td>
</tr>
</tbody>
</table>

Based on the total ARR approved and the total revenue estimated by the Commission for FY 2013-14, there is a revenue gap of Rs. 118.61 Crore in FY 2013-14.
6.17 Carrying cost

Petitioner's submission
The Petitioner has projected Rs. 5.83 Crore and Rs. 22.69 Crore as carrying cost for FY 2011-12 and FY 2012-13. The Petitioner has computed the carrying cost on the basis of SBI PLR rate of 14.40% and 14.50% respectively for FY 2011-12 and FY 2012-13.

Commission’s Analysis
TERC Tariff Regulations 2004 does not have any provision to allow carrying cost on the annual revenue gap. By considering the huge cumulative revenue gap in FY 2013-14, the Commission has decided not allow the carrying cost in this Tariff Order. However, for the ensuing year the Commission will notify the interest rate for carry cost and deal with the matter, if required.
7. Compliance of Directives

7.1 Adherence to the past directives

The Commission had issued twelve nos. of Directives to the Petitioner in the previous Tariff Order. In response to the Commission’s Directives, the Petitioner vide letter no. F/EE/ED-IX/TC/101/1078-80 dated April 24th, 2013 has submitted its replies. The point wise replies of the Directives submitted by the Petitioner and the Commission’s views on the same are presented below:

**Directive – 1: Timely submission of ARR & Tariff Petition:** The Commission directs TSECL to file its ARR & Tariff petition for FY 2013-14 on or before 30th November 2012. Timely submission of ARR & Tariff petition shall ensure that the new tariff would applicable from April 1st, 2013.

**Compliance**
The Petitioner has filed no reply against this Directive given by the Commission in the previous Tariff Order.

**Commission’s comments**
The Commission is again directed the Petitioner to file its ARR and Tariff Petition for the ensuing year on or before November 30th, 2013.

**Directive – 2: Annual Statement of Accounts:** TSECL is directed to prepare the “Statement of Accounts” which include balance sheet, profit & loss account, report of the auditors, lost records and Registers etc. along with supporting statements/ schedules for Electricity Business separately and submit the same along with the next ARR and Tariff Petition. It has been observed by the Commission that separate statement for asset-wise depreciation created through government grants is not enclosed in the annual accounts of the petitioner. Further, break-up of employees cost in terms of basic pay, dearness allowances, other allowances, gratuity, pension liability are also not available in annual accounts as well as not maintained by TSECL. The prudence of the expenses could be checked only with reference
to the audited accounts of the previous years and this is required for realistic approval of ARR for ensuing years.

**Compliance**

The Petitioner has filed no reply against this Directive given by the Commission in the previous Tariff Order.

**Commission's comments**

The Commission is again direct the Petitioner to prepare the “Statement of Accounts” as per Directives of the Commission given in the previous Tariff Order.

**Directive – 3: Asset and Depreciation Registers:** Determination of Tariff requires both GFA value and corresponding depreciation. TSECL is directed to prepare the function wise assets and depreciation registers including asset-wise classification. Till such time, the required asset-wise details are not prepared and got audited, it is not feasible for the Commission to consider the gross fixed assets and accumulated depreciation over the years to arrive at the capital base and allow the return there on as per the TERC Tariff Regulations 2004. The preparation of asset and depreciation register shall be completed by September 30th, 2012.

**Compliance**

The asset and depreciation schedule is available in the Annual Accounts under Note to Accounts 9.1. In addition, the assets are segregated function wise. The function wise segregation of the assets are provided in Note to Accounts 9.

**Commission’s comments**

The accounting schedules/notes on Accounts and the Fixed Assets and Depreciation register are not the same. The Fixed Assets register clearly highlights the following features of the assets:

1. Date of commissioning of the assets
2. Assets are in use and assets not in service
3. Assets exits but lying as dead stock
4. Assets considered as scrap

Further, the source of funding for all the assets should be reflected in Fixed Assets and Depreciation Register. Besides loan taken from various financial institutions, the Petitioner has also received grants and interest free loans from various government agencies for its capital works. The usage of these funds should reflect against each of the assets in the Fixed Asset and Depreciation register.

Further, the Annual Accounts submitted by the Petitioner is not audited by a Statutory Auditor. The Fixed Assets and Depreciation Register should audited by a Statutory Auditor.

Therefore, the Commission again directed the Petitioner to submit the Fixed Assets and Depreciation Register by 30\textsuperscript{th} November 2013.

**Directive – 4; Management Information System (MIS):** TSECL has not maintained proper data in respect of sales, revenue and revenue expenses. Further, category wise/ slab wise number of consumers and connected load/demand which is required for projection of sales and revenue for ensuing years is also not maintained by TSECL.

Therefore, TSECL is directed to take appropriate steps to build up credible & accurate data base and management information system (MIS) and regularly update the same for future record and reference. Arrangement may also be made for “On-line Payment” and “Payment to the Bank” of the electricity bills.

**Compliance**

An Ms-Excel based Management Information System for keeping record of energy sales is in place. In addition, TSECL also maintains record of power purchase and energy balance month wise for the entire state.
Commission’s comments
The Petitioner’s compliance is noted. Although, the Commission has observed some improvement in the MIS report of Petitioner recently but feels that there are huge scope of improvement on this issue. There are some areas such as revenue statement, where the Petitioner can improve. For example, the revenue statement prepared by the Petitioner does not reflect the amount realized against Fixed Charge, Energy Charges, Rebate allowed, Surcharge, Arrear, Miscellaneous income etc.

The Commission directs the Petitioner to prepare the MIS report as per the regulatory requirements.

Directive – 5: Collection of past arrears: TSECL is directed to assess year wise arrears due from the consumers and also initiate measures to realize the arrears and shall submit an action plan in this regard by September 30th, 2012 to the Commission.

Compliance
The Petitioner has submitted the status on collection of past arrears before the Commission on April 24th, 2013.

Commission’s comments
The Petitioner’s compliance is noted. However, a large amount of arrears is still pending from both the government and private consumers. This has cause a concern to the Commission as well. The Commission has already communicated its concern on the mounting arrears of TSECL to the Chief Secretary of the State on March 12th, 2013 and requested for intervention and directions to the respective departments to release the arrear amount. The Commission has also suggested to recover the amount from the sectioned budget of the respective departments.

The Petitioner during the State Advisory Committee meeting has appraised the Commission that 100% collection of bills from the Capital Complex division has been realized, which is an encouraging sign. However, the
Commission has noticed that Rs. 75 Crore is still needs to be realized from various government departments. The Petitioner needs to ensure that these outstanding dues are collected quickly and do not accumulate. It is necessary to take all possible steps to minimise the arrear.

TSECL should pursue with various government departments to collect the remaining amount of arrears at the earliest and appraise the Commission by September 30\textsuperscript{th}, 2013.

**Directive – 6: Transmission and distribution losses:** A number of objectors have raised the issue of high level of T&D losses of TSECL. In the ARR petition for FY 2006-07, the petitioner has projected the T&D loss level at 23.60% for FY 2011-12. In the present petition, the petitioner has projected the T&D losses figures at 29.50% for FY2011-12, an increase of around 6%.

Therefore, the Commission directs TSECL to take every possible step to reduce the T&D losses. TSECL also directed to prepare an action plan for reduction of the T&D losses and submit the same to the Commission by June 30\textsuperscript{th}, 2012.

**Compliance**

The Petitioner has filed no reply against this Directive given by the Commission in the previous Tariff Order.

**Commission’s comments**

The petitioner should intensify efforts in this regard and is directed to reduce distribution losses as per the target set by the Commission.

**Directive – 7: MYT Compliance:** The Commission directs TSECL submit an Action Taken Report (ATR) on its preparedness to move to MYT framework for tariff determination not later than 30\textsuperscript{th} June, 2012.
Compliance

TSECL has all the necessary inputs (power purchase projections, capex plan and sales projection) for MYT framework and is fully prepare to move to MYT framework from FY 2014-15.

Commission’s comments
The Petitioner's compliance is noted.

Directive – 8
Telescopic structure of tariff: The Commission directs TSECL submit an Action Taken Report (ATR) on its preparedness to move to telescopic structure for tariff determination by September 30th, 2012.

Compliance
The Petitioner has filed no reply against this Directive given by the Commission in the previous Tariff Order.

Commission’s comments
The Petitioner in its Tariff Petition for FY 2013-14 has prayed before the Commission to implement Telescopic structure of Tariff. During the Public Hearing, a number of consumers/consumer groups have also advocated for Telescopic structure of Tariff. Based on the same, the Commission has adopted Telescopic structure of Tariff from FY 2013-14.

Directive – 9: Capital Expenditure Plan: Annual Capital Expenditure Plan shall be submitted to the Commission for the prior approval from the Commission for all major capital works costing Rs. 5.00 Crore and above before execution of the works in every quarter of the year.

Compliance
TSECL has provided the capital expenditure plan, capitalization and its funding in Tables 35 and 36.
**Commission's comments**

The Commission in its previous Tariff Order has directed the Petitioner to submit the capital expenditure plan within 90 days of issuance of the Order. However, the Petitioner has not complied with the same despite a number of reminders given by the Commission from time to time. The Table no. 35 and 36 given in the Tariff Petition are merely a reflection of proposal for capital expenditure and cannot be considered as Capital Expenditure Plan. The information provided in Table 35 and 35 of the Tariff Petition lacks a number of vital information such as justification of the capital expenditure, cost benefit analysis etc. Therefore, the reply furnished by the Petitioner on this regard does not comply with the Directive issued by the Commission in the previous Tariff Order.

The Petitioner should review the Capital Expenditure Plan and Business Plan submitted by the other utilities in the country and accordingly prepare and submit the Capital Expenditure Plan for FY 2013-14 before the Commission within 90 days of issuance of this Order.

**Directive – 10: Interest on Consumer Security Deposits:** TSECL is directed to furnish the appropriate details of interest on security deposits refundable to the consumers as per Regulation by 30th June, 2012.

**Compliance**

The Petitioner has submitted the following details on consumer security deposit:

1. Total security deposit from the consumers as on March 31st, 2012 – Rs. 61,264,070.90
2. Interest liability – Rs. 131,314.

**Commission's comments**

The Commission has noted the compliance.
Directive – 11: Metering of consumers and replacement of defective meters: It is observed that a large number of Kutir Jyoti category of consumers are not metered. Besides, a large number of consumers have defective meters. It is learnt that TSECL has already initiated the process for replacement of defective meters in phases. TSECL is directed to submit an action plan for installation of appropriate meters to the consumers of all categories by 30th June, 2012 for the approval of the Commission.

Under Section 55(1) of Electricity Act, 2003, no licensee shall supply electricity after expiry of two years from the appointed date except through installation of correct meter in accordance with the Regulations framed in this behalf by the Authority. Accordingly, metering is required to be done in line with Central Electricity Authority (Installations and Operation of Meters) Regulations, 2006, to all consumers. Both the billing efficiency and the collection efficiency cannot be improved in the absence of proper functioning of the meters. TSECL is directed to provide meters to all un-metered consumers by the end of FY 2012-13 on 100% metering plan and submit “Quarterly Progress Reports” regularly.

Compliance
The Petitioner has submitted the status on consumer metering in the Annual Performance Report for FY 2012-13.

Commission’s comments
The Commission has noted the compliance. As per the Petitioner’s submission, 95% of the total consumers are metered and 30432 consumers are not metered. The Commission directs the Petitioner to complete 100% metering by the end of FY 2013-14.

The total no. of defective meters accounts for 75456, which is 13.26% of the total consumers. Out of the total defective meters, the Petitioner has received 16190 meters from the consumers and 1292 meters have repaired so far. The percentage of defective meters in the state is very high. The Petitioner should take every possible step to keep the defective meter rate below 5%. 
Directive – 12: AT&C losses: While analysis the present True-up and ARR petition, it was observed that TSECL has not furnished the AT&C loss level for the true-up period or proposed any AT&C losses trajectory for FY 2011-12 and FY 2012-13. The Commission has considered the T&D losses in this Tariff Order. TSECL is directed to submit the AT&C losses reduction trajectory for the ensuing three years to the Commission by 30th June 2012.

Compliance
TSECL has submitted the loss (actual) for FY 2011-12 in the Truing-up Petition (Table 8: Energy Balance), loss for FY 2012-13 and FY 2013-14 are provided Table 34 of the Tariff Petition for FY 2013-14.

Commission’s comments
The Commission in its previous Tariff Order has directed the Petitioner to submit the AT&C Losses trajectory for FY 2011-12 and FY 2012-13. The Tables referred in the Petitioners reply are showing the T&D losses. The Petitioner, however, submitted the AT&C losses for FY 2011-12 and FY 2012-13 in the Annual Performance Report (APR).

The Commission has also observed that the AT&C losses figures for FY 2011-12 and FY 2012-13 submitted in the APR are widely varied with the figures submitted in the Tariff Petition. It is very difficult for the Commission to judge the actual performance of the Petitioner, if two different AT&C losses figures submitted in the Tariff Petition and in the APR. Hence, the Commission directs the Petitioner to audit the AT&C losses figures from a Statutory Auditor and should be submitted before the Commission by November 30th, 2013. The audited AT&C losses figures should also reflect in their Audited Annual Accounts.
7.2 Fresh Directives

Directive – 1

Voltage wise distribution loss: The Commission directs the Petitioner to compute the voltage wise distribution loss at 33 kV, 11 kV and 400 Volts. The Petitioner is directed to submit the voltage wise distribution loss by September 30\textsuperscript{th} 2013.

Directive – 2

Capitalization of employee, A&G and interest expenses: The Commission directs TSECL to capitalize the employee, A&G and interest expenses incurred for construction of capital-intensive projects. The Petitioner should submit the department wise employee and A&G expenses before the Commission by September 30\textsuperscript{th}, 2013 to fix the capitalization rate for the ensuing year.

Directive – 3

Filing Petition for approval of inter-state tariff for Manipur and Mizoram to the Commission: The Commission has observed that billing to Manipur and Mizoram has been done on provisional basis. At present, the average billing rate (excluding FPPCA) to Manipur and Mizoram is Rs. 1.94 per unit, much below the average generation cost. There is a clause (clause no. 6.1) in the Power Purchase Agreement that TSECL can approach the Commission for finalization of tariff for Manipur and Mizoram. In this regard, the Commission directs TSECL to file Petition before the Commission at the earliest.

Directive – 4

Annual Performance Report (APR): The APR is an important document for the Commission to judge the actual performance of the Petitioner. The APR need to submit before the Commission for approval. TSECL is lagged behind in this respect and it is directed that APR should be prepared and get it
approved by the Commission every year. The Commission from time to time has raised this issue but the Petitioner response on submission of the APR was not very encouraging in the past. Therefore, the Petitioner is strictly directed to comply with this directive in the ensuing years.
8. Tariff principles and design

8.1 Tariff principles

The Commission has been guided by the provisions of the Electricity Act, 2003, the National Electricity Policy (NEP), the National Tariff Policy (NTP), the Regulations on Terms and Conditions of Tariff issued by the Central Electricity Regulatory Commission (CERC) and the Tripura Electricity Regulatory Commission (Tariff Regulation 2004) notified by the Commission.

Section 61 of the Act lays down the broad principles and guidelines for determination of retail supply tariff. The guiding principles as laid down in Section 61 of the Act are as follows:

1. the principles and methodologies specified by the Central Commission for determination of the tariff applicable to generating companies and transmission licensees;
2. the generation, transmission, distribution and supply of electricity are conducted on commercial principles;
3. the factors which would encourage competition, efficiency economical use of the resources, good performance and optimum investments;
4. safeguarding of consumers' interest and at the same time, recovery of the cost of electricity in a reasonable manner;
5. the principles rewarding efficiency in performance;
6. multi-year tariff principles;
7. that the tariff progressively, reflects the cost of supply of electricity, and also reduces and eliminates cross-subsidies within the period to be specified by the Appropriate Commission;
8. the promotion of co-generation and generation of electricity from renewable sources of energy;
9. the National Electricity Policy and Tariff Policy.

The NTP mandates that the Multi-Year-Tariff (MYT) framework be adopted for determination of tariff from 1st April 2006. However, the Commission is not in a
position to introduce MYT Regime in the State mainly because of lack of requisite and reliable data. The present MIS and regulatory reporting system of TSECL are totally inadequate for such an exercise. There has been no study to assess voltage wise losses in the absence of metering of all feeders, distribution transformers and consumers. Technical and commercial losses are yet to be segregated and quantified voltage wise. The Commission has issued a directive to TSECL in the Tariff Order 2006-07 to chalk out a long-term action plan for reduction of T&D losses. Under these conditions, it would not be practicable to implement the MYT framework this year. The Commission, after taking into account all factors, has decided to introduce MYT in due course, when the data is available.

Section 8.3 of National Tariff Policy lays down the following principles for tariff design:

1. The State Governments can give subsidy to the extent they consider appropriate as per the provisions of the Section 65 of the Act. Direct subsidy is a better way to support the poorer categories of the consumers than the mechanism of cross subsidizing the tariff across the board. Subsidies should be targeted effectively and in transparent manner.

2. “In accordance with the National Electricity Policy, consumers below poverty line who consume below a specified level, say 30 units per month, may receive a special support through cross subsidy. Tariffs for such designated group of consumers will be at least 50% of the average cost of supply. This provision will be re-examined after five years.

3. For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the SERC would notify the roadmap, within six months with a target that latest by the end of the year 2011-12 tariffs are within ±20% of the average cost of supply. The road map would have intermediate milestones, based on the approach of a gradual reduction in cross subsidy.
For example, if the average cost of service is Rs.4.00 per unit, at the end of FY 2012 - 13, the tariff for the cross subsidized categories excluding those referred to in para 1 above should not be lower than Rs.3.20 per unit and that for any of the cross subsidizing categories should not go beyond Rs.4.80 per unit.

4. While fixing tariff for agricultural use, the imperatives of the need of using ground water resources in a sustainable manner would also need to be kept in mind in addition to the average cost of supply. The tariff for agricultural use may be set at different levels for different parts of the state depending on the condition of the ground water table to prevent excessive depletion of ground water.”

The mandate of the NEP that the tariff should be within ±20% of the average cost of supply by FY 2010-11 has been the guiding principle. It is not possible for the Commission to lay down the road map for reduction of cross subsidy, mainly because of lack of data regarding cost of supply at various voltage levels. A directive has been issued in this order to build up data to arrive at cost of supply at various voltage levels etc. Hence, in working out the cost of supply, the Commission has gone on the basis of average cost of supply in the absence of relevant data for working out consumer category wise cost of supply. However, in this tariff order an element of performance target has been indicated by setting target for T&D loss reduction during the period for FY 2012-13. The improved performance, by reduction of loss level, will result in substantial reduction in average cost of supply.

8.2 Proposal of TSECL for tariff increase

8.2.1 Tariff proposal

The Petitioner has proposed for introduction of “telescopic” tariff structure from the existing “non-telescopic” structure for domestic and commercial categories.
TSECL has proposed a tariff increase for all categories of consumers. The proposal submitted by TSECL is hereunder:

**Table 8-1: Tariff proposal submitted by TSECL for FY 2013-14**

<table>
<thead>
<tr>
<th>Category</th>
<th>Fixed Charge</th>
<th>Unit</th>
<th>Energy charge</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutiriyoti</td>
<td>110</td>
<td>Per Cons Per Month</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>A. DOMESTIC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 unit</td>
<td>75</td>
<td>Per Cons Per Month</td>
<td>3.75</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 1 : 0 - 50 unit</td>
<td>100</td>
<td>Per Cons Per Month</td>
<td>4.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 2 : 51 - 150 unit</td>
<td>150</td>
<td>Per Cons Per Month</td>
<td>5.75</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 3 : 151 - 300 unit</td>
<td>200</td>
<td>Per Cons Per Month</td>
<td>6.75</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 4 : above 300 units</td>
<td>200</td>
<td>Per Cons Per Month</td>
<td>7.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Three phase (compulsory above 3 kW) : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>7.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td><strong>B. COMMERCIAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 -30 unit</td>
<td>75</td>
<td>Per Cons Per Month</td>
<td>5.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 1 : 0 - 150 unit</td>
<td>100</td>
<td>Per Cons Per Month</td>
<td>6.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Slab 2 : above 150 unit</td>
<td>150</td>
<td>Per Cons Per Month</td>
<td>7.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>200</td>
<td>Per Cons Per Month</td>
<td>8.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Three phase (Compulsory above 3 KW) : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>9.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Mobile Towers</td>
<td>400</td>
<td>Per kW Per Month</td>
<td>10.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Three phase Group Consumer: All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>9.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td><strong>C. IRRIGATION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>100</td>
<td>Per kW Per Month</td>
<td>8.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>250</td>
<td>Per kW Per Month</td>
<td>11.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td><strong>D. WATER WORKS : All units</strong></td>
<td>250</td>
<td>Per kW Per Month</td>
<td>10.25</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td><strong>E. INDUSTRIAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Upto 5 H.P.(E-R/5) : All units</td>
<td>150</td>
<td>Per kW Per Month</td>
<td>8.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>2. Upto 5 H.P.(E-U/5) : All units</td>
<td>150</td>
<td>Per kW Per Month</td>
<td>8.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>3. Above 5 - 20 H.P. : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>9.00</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>4. Above 20 - 100 H.P. : All units</td>
<td>250</td>
<td>Per kW Per Month</td>
<td>9.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>5. Above 100 H.P. : All units</td>
<td>300</td>
<td>Per kW Per Month</td>
<td>10.50</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Category</td>
<td>Fixed Charge</td>
<td>Unit</td>
<td>Energy charge</td>
<td>Unit</td>
</tr>
<tr>
<td>----------</td>
<td>--------------</td>
<td>------</td>
<td>---------------</td>
<td>------</td>
</tr>
<tr>
<td>Tea. Coffee &amp; Rubber garden</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>8.65</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>G. BULK SUPPLY : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>10.25</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>H. PUBLIC LIGHTING</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Nagar Panchayat : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>8.25</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>2. Nagar Panchayat / Municipal Area : All units</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>8.75</td>
<td>Rs/kWh</td>
</tr>
<tr>
<td>Special Public Utility</td>
<td>200</td>
<td>Per kW Per Month</td>
<td>9.25</td>
<td>Rs/kWh</td>
</tr>
</tbody>
</table>

8.3 Tariff approved by the Commission

8.3.1 Existing Tariff Rates

The existing tariff rates are presented in the following Table.

### Table 8-2: Existing tariff rates

<table>
<thead>
<tr>
<th>Consumer Category</th>
<th>Fixed Charge (Rs./Month, Rs. kW/month)</th>
<th>Gross Tariff rate (Rs./kWh)</th>
<th>Rebate (Rs. /kWh)</th>
<th>Net Tariff rate (Rs./kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kutir Jyoti (Rs/ month)</td>
<td></td>
<td>Rs. 40.00/connection/month</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Domestic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural)</td>
<td>0-30 units</td>
<td>10.00</td>
<td>2.74</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 1</td>
<td>0-50 units</td>
<td>15.00</td>
<td>2.99</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 2</td>
<td>51-150 units</td>
<td>25.00</td>
<td>3.89</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 3</td>
<td>151-300 units</td>
<td>30.00</td>
<td>4.69</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 4</td>
<td>Above 300 units</td>
<td>30.00</td>
<td>5.49</td>
<td>0.10</td>
</tr>
<tr>
<td>Three phase - compulsory above 3 kW (Group Consumer)</td>
<td>All units</td>
<td>40.00/kW</td>
<td>5.44</td>
<td>0.10</td>
</tr>
<tr>
<td>B. Commercial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial /Pan shop</td>
<td>0-30 units</td>
<td>15.00</td>
<td>3.64</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 1</td>
<td>0-150 units</td>
<td>20.00</td>
<td>4.29</td>
<td>0.10</td>
</tr>
<tr>
<td>Slab 2</td>
<td>Above 150 units</td>
<td>40.00</td>
<td>5.59</td>
<td>0.10</td>
</tr>
<tr>
<td>Semi Commercial</td>
<td>All units</td>
<td>40.00</td>
<td>5.89</td>
<td>0.10</td>
</tr>
<tr>
<td>Three phase - compulsory above 3 kW</td>
<td>All units</td>
<td>40.00/kW</td>
<td>6.49</td>
<td>0.10</td>
</tr>
<tr>
<td>Three Phase - Group</td>
<td>All units</td>
<td>40.00/kW</td>
<td>6.39</td>
<td>0.10</td>
</tr>
<tr>
<td>Consumer Category</td>
<td>Fixed Charge (Rs./Month, Rs. kW/month)</td>
<td>Gross Tariff rate (Rs./kWh)</td>
<td>Rebate (Rs. /kWh)</td>
<td>Net Tariff rate (Rs./kWh)</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------</td>
<td>----------------------------</td>
<td>------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>C. Irrigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P.</td>
<td>All units</td>
<td>20.00/kW</td>
<td>2.79</td>
<td>0.10</td>
</tr>
<tr>
<td>Above 5 H.P.</td>
<td>All units</td>
<td>40.00/kW</td>
<td>3.39</td>
<td>0.10</td>
</tr>
<tr>
<td>D. Water works</td>
<td>All units</td>
<td>25.00/kW</td>
<td>3.99</td>
<td>0.10</td>
</tr>
<tr>
<td>E. Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5)</td>
<td>All units</td>
<td>15.00/kW</td>
<td>4.29</td>
<td>0.10</td>
</tr>
<tr>
<td>Upto 5-20 HP: All units</td>
<td>All units</td>
<td>20.00/kW</td>
<td>4.49</td>
<td>0.10</td>
</tr>
<tr>
<td>Above 20-100 HP: All units</td>
<td>All units</td>
<td>40.00/kW</td>
<td>5.29</td>
<td>0.10</td>
</tr>
<tr>
<td>Above100 HP: All units</td>
<td>All units</td>
<td>50.00/kW</td>
<td>5.89</td>
<td>0.10</td>
</tr>
<tr>
<td>F. Tea, coffee &amp; rubber garden</td>
<td>All units</td>
<td>50.00/kW</td>
<td>5.69</td>
<td>0.10</td>
</tr>
<tr>
<td>G. Bulk Supply</td>
<td>All units</td>
<td>50.00/kW</td>
<td>5.79</td>
<td>0.10</td>
</tr>
<tr>
<td>H. Public Utility</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/ Municipality)</td>
<td>All units</td>
<td>40.00/kW</td>
<td>4.39</td>
<td>0.10</td>
</tr>
<tr>
<td>Special Public Utility</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Utility (Nagar panchayat/ Municipal area)</td>
<td>All units</td>
<td>30.00/kW</td>
<td>4.19</td>
<td>0.10</td>
</tr>
<tr>
<td>Public Utility (Panchayat)</td>
<td>All units</td>
<td>20.00/kW</td>
<td>3.99</td>
<td>0.10</td>
</tr>
</tbody>
</table>

### 8.3.2 Approved Tariff Rates

TSECL has proposed the billing for domestic and non-domestic categories through telescopic route. Further, various consumers have also requested for removal of non telescopic slab tariff as the same is leading to higher cost on marginal increase in consumption over the lower slab. In order to give relief to the consumers, the Commission has decided to introduce telescopic slab tariff for Domestic and Commercial consumers, which is prevailing in many States.
The Commission has introduced a new consumer category – “Mobile Tower”. Tripura State Electricity Corporation Limited has requested to create a new Slab in the Commercial category for Mobile Tower. However, the nature of supply to this type of consumers is different from the other commercial consumers. The Commission, accordingly created a new consumer category for the Mobile Tower consumers.

In its Petition for FY 2013-14, the Petitioner has submitted the revised ARR for FY 2011-12, FY 2012-13 and FY 2013-14 at Rs. 518.25 Crore, Rs. 516.63 Crore and Rs. 560.51 Crore. The Petitioner has also estimated a cumulative revenue gap of Rs 435.31 Crore in FY 2013-14 (excluding subsidy of Rs. 80 Crore received from the State Government in FY 2011-12 and FY 2013-14) at existing tariffs and has accordingly proposed category-wise retail tariffs designed to earn additional revenue of Rs. 356.73 Crore.

The Commission has approved the ARR and revenue gap for FY 2013-14 after detailed scrutiny of the revenue requirement proposed by TSECL. The Commission has arrived at the revised ARR of Rs 465.40 Crore, Rs 479.39 Crore and Rs 547.04 Crore for FY 2011-12, FY 2012-13 and FY 2013-14 respectively after prudence check (including power purchase from Palatana) and in accordance with the TERC Tariff Regulations 2004. The ARR and cumulative revenue gap approved by the Commission for FY 2013-14 will be met through the revenues at revised tariffs. It has been estimated that with the prevailing tariff, TSECL would get Rs. 561.03 Crore during the FY 2013-14 leaving a cumulative deficit of Rs. 118.61 Crore, which can be met by increasing the tariff of the retail consumers in Tripura. The average increase in tariff in the State will be Rs. 1.46 per unit by considering 808.58 MU and the average tariff will stand at Rs. 6.15 per unit (i.e. Fixed and Energy charges) for the year.

The category-wise tariffs approved for FY 2012-13 are as follows:
A: Kutir Jyoti

Applicability

Kutir-Jyoti connection covered under scheme of the State Govt. or Central Govt. Load maximum 120 watt (60 watt x 2 points), monthly consumption limited to 16 units, and shall have to be metered.

(a) Tariff:

<table>
<thead>
<tr>
<th>For consumption upto 16 kW/month</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rs. 62 per connection per month</td>
</tr>
</tbody>
</table>

I. If, during any billing period the consumption exceeded the stipulated 16 kWh per month the consumers will be considered as if they are shifted to the next appropriate Domestic category on Telescopic Tariff Structure.

II. **Rebate**: A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

III. **Surcharge for delayed payment**: Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

IV. Fuel and Power Purchase Cost Adjustment (FPPCA) charges as applicable will be charged extra.

V. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

B. Domestic

Applicability

Electric service connection related to consumption of electricity for lights, all types of fans, Heating devices, Television, Radio, Refrigerator, Air Conditioner and all other appliances for consumers own domestic use but not for commercial purpose, educational institutions owned or aided by State/Central government and all government hospital and all hospital owned by charitable
institutions (not maintained for commercial purposes), as approved and notified by the State Government.

(a) Tariff

<table>
<thead>
<tr>
<th>Slab Description</th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic (Rural): 0-30 unit</td>
<td>Rs. 3.75/kWh</td>
<td>Rs. 15 per connection per month</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>Rs. 4.50/kWh</td>
<td>Rs. 23 per connection per month</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>Rs. 5.60/kWh</td>
<td>Rs. 38 per connection per month</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>Rs. 5.80/kWh</td>
<td>Rs. 45 per connection per month</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>Rs. 6.90/kWh</td>
<td>Rs. 45 per connection per month</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW) : All units</td>
<td>Rs. 6.90/kWh</td>
<td>Rs. 60 per kW per month</td>
</tr>
</tbody>
</table>

I. Consumers in Domestic (Rural) and Slab 1 to Slab 4 will be billed as per Telescopic Tariff Structure, which is explained below.

If, an urban domestic consumer consumes 330 unit in a month, his/her applicable tariff rate will be:

<table>
<thead>
<tr>
<th>Unit consume (kWh)</th>
<th>Energy Charge</th>
<th>Amount in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 50 units</td>
<td>50</td>
<td>4.50</td>
</tr>
<tr>
<td>Next 100 units</td>
<td>100</td>
<td>5.60</td>
</tr>
<tr>
<td>Next 150 units</td>
<td>150</td>
<td>5.80</td>
</tr>
<tr>
<td>301 units onwards</td>
<td>30</td>
<td>6.90</td>
</tr>
<tr>
<td>Total</td>
<td>330</td>
<td></td>
</tr>
</tbody>
</table>

Applicable Fixed Charge will be Rs. 45 per connection per month for the consumer.

Fixed and energy charges will be applicable for Three Phase (compulsory above 3 kW) slab as per actual.
II. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

III. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

IV. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

V. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

**Note:**
If the portion of the household is used for the conduct of any business other than those specified above, the entire consumption shall be billed under the Commercial/Industrial category as applicable.

**C. Commercial**

**Applicability**
Electric service connection related to consumption of electricity for lights, all types of fans, Heating devices, Television, Radio, Refrigerator, Air Conditioner, Lift motors, Pumps and all other appliances used for commercial purposes maintained for private gain including other small power, supply of power to Cinema Hall, Auditorium, Stadium, Nursing Home, Pathological & Clinical Laboratories, Chamber of Medical Practitioners Advocates/Consultant Engineers/Chartered Accountants and similar other, Private Educational Institutions, Hospitals etc.

(a) **Tariff**

<table>
<thead>
<tr>
<th></th>
<th><strong>Energy Charge</strong></th>
<th><strong>Fixed charge</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Commercial / Pan shop: 0 -30 unit</td>
<td>Rs. 5.50/kWh</td>
<td>Rs. 23 per connection per month</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>Rs. 6.20/kWh</td>
<td>Rs. 30 per connection per month</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>Rs. 6.90/kWh</td>
<td>Rs. 60 per connection per month</td>
</tr>
</tbody>
</table>
I. Consumers in Slab 1 and Slab 2 will be charged as per Telescopic Tariff Structure as explained below.

If, a commercial consumer consumes 330 units in a month, his/her applicable tariff rate will be:

<table>
<thead>
<tr>
<th>Unit consume (kWh)</th>
<th>Energy Charge</th>
<th>Amount in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 150 units</td>
<td>150</td>
<td>6.20</td>
</tr>
<tr>
<td>150 units onwards</td>
<td>180</td>
<td>6.90</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>330</strong></td>
<td><strong>6.90</strong></td>
</tr>
</tbody>
</table>

Applicable Fixed Charge will be Rs. 60 per connection per month for the consumer.

Fixed and energy charges will be applicable for Semi-commercial, Three phase (Compulsory above 3 kW) and Three Phase - Group Consumer slab as per actual.

I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.
**D. Mobile Tower**

**Applicability**
Electric service connection related to consumption of electricity in Mobile Tower and metered on HT supply end or on L.T. supply plus 3% Transformer loss.

**(a) Tariff**

<table>
<thead>
<tr>
<th></th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Tower: All units</td>
<td>Rs. 6.98/kWh</td>
<td>Rs. 120 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate**: A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment**: Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

**E. Irrigation**

**Applicability**
Applicable for Motive power for Irrigation including the power consumed for Light and Fans in Pump House for Irrigation.

**(a) Tariff**

<table>
<thead>
<tr>
<th></th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>Rs. 4.60 kWh</td>
<td>Rs. 30 per kW per month</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>Rs. 5.50/kWh</td>
<td>Rs. 60 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate**: A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.
II. **Surcharge for delayed payment**: Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

**F. Water works**

**Applicability**

Applicable for Motive Power for Water Works including the power consumed for Light & Fans in Pump House for Water Works for all unit consumed.

(a) **Tariff**

<table>
<thead>
<tr>
<th></th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water works: All units</td>
<td>Rs. 6.15/ kWh</td>
<td>Rs. 38 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate**: A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment**: Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

**G. Industrial**

**Applicability**

Electric service connection related to Supply/consumption of electricity for industrial purpose, each installation having Motor and other industrial
appliances, Battery Charger, Welding Transformer etc. including the power consumed for Light & Fan in an industry.

(a) Tariff

<table>
<thead>
<tr>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>Rs. 5.50/kWh</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>Rs. 5.90/kWh</td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td>Rs. 6.72/kWh</td>
</tr>
<tr>
<td>Above 20 to 100 HP: All units</td>
<td>Rs. 6.90/kWh</td>
</tr>
<tr>
<td>Above 100 HP: All units</td>
<td>Rs. 6.99/kWh</td>
</tr>
</tbody>
</table>

I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

H. Tea, Coffee and Rubber Gardens

**Applicability**

Electric service connection related to consumption of electricity for Tea, Coffee and Rubber Plantation/Garden for utilization electric power for factory & Irrigation in the Estate including the power consumed for lights and fans, in an around the factory premises for all units.

(a) Tariff

<table>
<thead>
<tr>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tea, Coffee and Rubber Gardens: All units</td>
<td>Rs. 6.95/kWh</td>
</tr>
</tbody>
</table>
I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

I. **Bulk Supply**

**Applicability**

Electric service connection related to consumption of electricity to the organizations and establishments having total connected load of 25 KVA or above, such Institutions, School, Collage, University, Defense installations, Railways, All India Radio, Office complex Departmental, Colony, Dairy with Chilling Plant, Doordarshan, Cold storage, who are maintaining LT distribution system and having mixed load but desirous to be bulk power supply consumer based on bulk power supply contract agreement and metered on HT supply end or on L.T. supply plus 3% Transformer loss.

(a) **Tariff**

<table>
<thead>
<tr>
<th></th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Supply: All units</td>
<td>Rs. 6.98/kWh</td>
<td>Rs. 75 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.
IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

J. Public lighting

Applicability
Electric service connection related to consumption of electricity for Water Works, Irrigation, Public Lighting for Panchayat and Nagar Panchayat /Municipal area.

(a) Tariff

<table>
<thead>
<tr>
<th></th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Lighting (Panchayat)</td>
<td>Rs. 5.15/kWh</td>
<td>Rs. 30 per kW per month</td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/ Municipality)</td>
<td>Rs. 6.15/kWh</td>
<td>Rs. 60 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

K. Special Public Utility

Applicability
Special public utility for Crematorium, Emergency Water pumping, Drainage, Dewatering for all units consumed.
(a) Tariff

<table>
<thead>
<tr>
<th>Special Public Utility (Crematorium)</th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rs. 5.15/kWh</td>
<td>Rs. 45 per kW per month</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Public Utility (Emergency Water pumping, Drainage, Dewatering etc.)</th>
<th>Energy Charge</th>
<th>Fixed charge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rs. 5.15/kWh</td>
<td>Rs. 45 per kW per month</td>
</tr>
</tbody>
</table>

I. **Rebate:** A rebate of 2% on the total billing amount will be allowed to the consumer for prompt payment made on or before the due date.

II. **Surcharge for delayed payment:** Surcharge @ 2% per month or part thereof at simple interest shall be levied, if payment is made in after the due date.

III. Fuel and Power Purchase cost Adjustment (FPPCA) charges as applicable will be charged extra.

IV. The Tariff does not include any tax or duty levied by the Government, which will be charged as actual whenever may be.

**TOD Tariff**

**Applicability**

All consumers under category – Industrial, Tea/Coffee/Rubber Gardens, Bulk Supply, Water Works and Irrigation would have the option of taking TOD tariff, wherein the following rates would be applicable.

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>Period</th>
<th>Energy charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00 A.M</td>
<td>5.00 P.M</td>
<td>Normal</td>
<td>Normal rate</td>
</tr>
<tr>
<td>5.00 P.M</td>
<td>11.00 P.M</td>
<td>Peak</td>
<td>140% of the normal rate</td>
</tr>
<tr>
<td>11.00 P.M</td>
<td>5.00 A.M</td>
<td>Off-peak</td>
<td>60% of the normal rate</td>
</tr>
</tbody>
</table>

N.B: If any error noticed and required corrections may be pointed out to the Commission within 15 days of issuance of the Tariff Order
8.4 Approved miscellaneous and other charges

The miscellaneous and other charges approved by the Commission for FY 2012-13 is summarised in the Table below:

Table 8-3: Approved miscellaneous and other charges for FY 2012-13

<table>
<thead>
<tr>
<th>Sl. no.</th>
<th>Category: Miscellaneous Charges</th>
<th>Existing</th>
<th>Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category-I: MISCELLANEOUS CHARGES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>The tariff for temporary supply for lights and fans for festival, ceremonies, public meeting shall be charged at the following rate, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. Net</td>
<td>Rs.4.40 per kWh</td>
<td>Rs.6.00 per kWh</td>
</tr>
<tr>
<td></td>
<td>ii. Rebate</td>
<td>Rs.0.10 per kWh</td>
<td>Rs.0.10 per kWh</td>
</tr>
<tr>
<td></td>
<td>iii. Gross</td>
<td>Rs.4.50 per kWh</td>
<td>Rs.5.90 per kWh</td>
</tr>
<tr>
<td></td>
<td>N.B: The minimum charge for each installation which shall be paid in advance shall be</td>
<td>Rs. 45/- per day per kW of contracted load or a fraction thereof</td>
<td>Rs. 60/- per day per kW of contracted load or a fraction thereof</td>
</tr>
<tr>
<td>B</td>
<td>The tariff for temporary supply for lights &amp; fans to commercial establishment which shall include temporary Cinema, Theater, Circus, Exhibition, Fare shall be charged at the following rate, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. Net</td>
<td>Rs.5.40 per kWh</td>
<td>Rs.7.00 per kWh</td>
</tr>
<tr>
<td></td>
<td>ii. Rebate</td>
<td>Rs.0.10 per kWh</td>
<td>Rs.0.10 per kWh</td>
</tr>
<tr>
<td></td>
<td>iii. Gross</td>
<td>Rs.5.50 per kWh</td>
<td>Rs.6.90 per kWh</td>
</tr>
<tr>
<td></td>
<td>N.B: The minimum charge for each installation which shall be paid in advance shall be</td>
<td>Rs.45/- per day per kW of contracted load or a fraction thereof</td>
<td>Rs.60/- per day per kW of contracted load or a fraction thereof</td>
</tr>
<tr>
<td>Category: Other Charges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>The monthly meter rent for different phases shall be at the following rate, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For single phase meter not exceeding 10 Amp</td>
<td>Rs.10.00</td>
<td>Rs.10.00</td>
</tr>
<tr>
<td></td>
<td>ii. For three phase meter</td>
<td>Rs.15.00</td>
<td>Rs.15.00</td>
</tr>
<tr>
<td></td>
<td>iii. For three phase meter with C.T.</td>
<td>Rs.25.00</td>
<td>Rs.40.00</td>
</tr>
<tr>
<td></td>
<td>iv. For HT metering equipment i.e. kWh meter with MDI &amp; KVR supplied by the Deptt.</td>
<td>Rs.200.00</td>
<td>Rs.250.00</td>
</tr>
<tr>
<td></td>
<td>v. For Trivector meter</td>
<td>Rs.400.00</td>
<td>Rs.400.00</td>
</tr>
<tr>
<td></td>
<td>vi. For TOD meter</td>
<td>Rs.400.00</td>
<td>Rs.400.00</td>
</tr>
<tr>
<td>Sl. no.</td>
<td>Category: Miscellaneous Charges</td>
<td>Existing</td>
<td>Approved</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>2</td>
<td>The charges for testing of meter at the request of consumer for different phase shall be at the following rate, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For each single phase meter-</td>
<td>Rs 50.00</td>
<td>Rs 50.00</td>
</tr>
<tr>
<td></td>
<td>ii. For each three phase meter -</td>
<td>Rs 100.00</td>
<td>Rs 100.00</td>
</tr>
<tr>
<td></td>
<td>iii. For each HT meter -</td>
<td>Rs 250.00</td>
<td>Rs 250.00</td>
</tr>
<tr>
<td></td>
<td>Provided that after testing it is found that the meter has no defect, and it is in order.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The charges for replacement of meter owing to temporary increase of load which shall be paid in advance shall be at the following rates, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For single phase</td>
<td>Rs 75.00</td>
<td>Rs 75.00</td>
</tr>
<tr>
<td></td>
<td>ii. For three phase</td>
<td>Rs 250.00</td>
<td>Rs 250.00</td>
</tr>
<tr>
<td>4</td>
<td>The charge for replacement of fuse at consumer premises.</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>5</td>
<td>The charges for installation of subtraction meter &amp; additional meter at consumer's meter board shall be</td>
<td>Rs 200.00</td>
<td>Rs 250.00</td>
</tr>
<tr>
<td></td>
<td>NOTE- Where two or more meters are installed against one connection instead of one meter to suit the convenience of the consumer, reading of the main meter will be taken and billed for.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>The monthly meter rent for an additional meter shall be at the following rates, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For single phase</td>
<td>Rs.15.00</td>
<td>Rs.15.00</td>
</tr>
<tr>
<td></td>
<td>ii. For three phase</td>
<td>Rs.25.00</td>
<td>Rs.25.00</td>
</tr>
<tr>
<td>7</td>
<td>There shall be no charge for test, inspection and connection of a new installation. But for any further test or inspection which may be found necessary owing to any fault in the installation or due to non-compliance with the condition of supply the charge for each additional test shall be</td>
<td>Rs 200.00</td>
<td>Rs 200.00</td>
</tr>
<tr>
<td>8</td>
<td>The charges for disconnection on consumers request shall be at the following rate, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For single phase</td>
<td>Rs 75.00</td>
<td>Rs 100.00</td>
</tr>
<tr>
<td></td>
<td>ii. For three phase</td>
<td>Rs 80.00</td>
<td>Rs 130.00</td>
</tr>
<tr>
<td></td>
<td>iii. For Bulk/HV/EHV</td>
<td>Rs 125.00</td>
<td>Rs 200.00</td>
</tr>
<tr>
<td>9</td>
<td>The charges for reconnection on consumers request shall be at the following rates, namely:-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. For single phase</td>
<td>Rs 125.00</td>
<td>Rs 125.00</td>
</tr>
<tr>
<td></td>
<td>ii. For three phase</td>
<td>Rs 175.00</td>
<td>Rs 175.00</td>
</tr>
<tr>
<td></td>
<td>iii. For Bulk/HV/EHV</td>
<td>Rs 250.00</td>
<td>Rs 250.00</td>
</tr>
<tr>
<td>10</td>
<td>The charges for temporary connection which shall be non refundable for all categories of load through a meter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Tariff Order for TSECL for FY 2013-14

<table>
<thead>
<tr>
<th>Sl. no.</th>
<th>Category: Miscellaneous Charges</th>
<th>Existing</th>
<th>Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>within permissible distance from the electric supply main shall be at the following rates, namely :-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td>For 220-230V(i.e. Single Phase connection)</td>
<td>Rs.300.00 per installation</td>
<td>Rs.300.00 per installation</td>
</tr>
<tr>
<td>ii.</td>
<td>For 380-400V(i.e. 3-phase, 4-wire connection).</td>
<td>Rs.450.00 per installation</td>
<td>Rs.450.00 per installation</td>
</tr>
<tr>
<td></td>
<td>N.B: (i) The consumer shall supply all materials required for service lines as may be approved by licensee, from the nearest pole of the supply point. There shall be no disconnection charge and meter rent for temporary connection.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N.B: (ii) For temporary. Connection the consumer shall pay as security deposit of Rs.750.00 for single phase or Rs.1500.00 for three phase supply which is refundable after disconnection of the temporary connection and final payment of the energy bill by consumer.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N.B: (iii) For the purpose of this clause, temporary connection means a connection for a continuous period not exceeding 15 days.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>The charge for changing of meter by a larger capacity at the request of consumer in respect of permanent connection shall be at the following rates, namely :-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td>For 220-230V(Single phase)</td>
<td>Rs 150.00</td>
<td>Rs 150.00</td>
</tr>
<tr>
<td>ii.</td>
<td>For 380-400V(3-phase, 4-wire).</td>
<td>Rs 400.00</td>
<td>Rs 400.00</td>
</tr>
<tr>
<td>12</td>
<td>The charge for changing the position the meter &amp; the board within the same building at the request of the consumer when no addition in the service line is required shall be at the following rates, namely :-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td>For 220-230V(Single phase)</td>
<td>Rs 150.00</td>
<td>Rs 200.00</td>
</tr>
<tr>
<td>ii.</td>
<td>For 380-400V(3-phase, 4-wire).</td>
<td>Rs 400.00</td>
<td>Rs 400.00</td>
</tr>
<tr>
<td></td>
<td>Provided that while changing the position of the meter and the board as aforesaid if any additional provision in the service line is required, then actual cost shall be charged on such service line as it is a new service connection. But the charge for changing the position of the meter and the load shall be as above.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Charges for calibration of check meter upon request of consumer.</td>
<td>Rs. 150.00</td>
<td>Rs. 200.00</td>
</tr>
<tr>
<td>14</td>
<td>Charges for special meter reading on consumer request</td>
<td>Rs.100.00</td>
<td>Rs.150.00</td>
</tr>
</tbody>
</table>

In case the Government of Tripura decides to pay the subsidy for some categories of consumers for FY 2013-14, the subsidy shall be paid in advance on monthly basis to TSECL.
The Commission directs TSECL to recover full tariff in case the Government of Tripura does not pay subsidy in advance for two consecutive months.
COMMISSION’S ORDER

The Commission approves the Aggregate Revenue Requirement (ARR) for Tripura State Electricity Corporation Limited (TSECL) for FY 2013-14 as shown in the following Table.

Aggregate Revenue Requirement for FY 2013-14

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Approved by the Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel cost</td>
<td>187.98</td>
</tr>
<tr>
<td>Power Purchase</td>
<td>224.65</td>
</tr>
<tr>
<td>O&amp;M Expense</td>
<td>135.25</td>
</tr>
<tr>
<td>Depreciation</td>
<td>24.31</td>
</tr>
<tr>
<td>Interest &amp; Finance Charges</td>
<td>0.34</td>
</tr>
<tr>
<td>Return on Equity</td>
<td>16.52</td>
</tr>
<tr>
<td>Total</td>
<td>589.05</td>
</tr>
<tr>
<td>Less:</td>
<td></td>
</tr>
<tr>
<td>Non-Tariff Income</td>
<td>42.01</td>
</tr>
<tr>
<td>Annual Revenue Requirement</td>
<td>547.04</td>
</tr>
</tbody>
</table>

The approved retail supply tariff will be in accordance with the Tariff Schedule given in this order. The Order shall come into force from April 1st, 2013 and shall remain valid till March 31st, 2014 or till further order/ amend by the Commission.

Sd/-

SHRI. M.R. KARMAKAR
Chairman

Place : Agartala
Date :
9. Annexure I: Approved Tariff Schedule for FY 2013-14

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>Tariff approved for FY 2013-14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fixed Charge (Rs./kW /Con /month)</td>
</tr>
<tr>
<td><strong>A</strong> Kutir Jyoti</td>
<td>Rs.62/Con/month</td>
</tr>
<tr>
<td><strong>B</strong> Domestic</td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 units</td>
<td>Rs.15/Con/month</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>Rs.23/Con/month</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>Rs.38/Con/month</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>Rs.45/Con/month</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>Rs.45/Con/month</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW) : All units</td>
<td>Rs.60/month/kW</td>
</tr>
<tr>
<td><strong>C</strong> Commercial</td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 – 30 units</td>
<td>Rs.23/Con/month</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>Rs.30/Con/month</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>Rs.60/Con/month</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>Rs.60/kW/month</td>
</tr>
<tr>
<td>Three Phase (Compulsory above 3 kW): All units</td>
<td>Rs.60/kW/month</td>
</tr>
<tr>
<td>Three Phase - Group Consumer: All units</td>
<td>Rs.60/kW/month</td>
</tr>
<tr>
<td><strong>D</strong> Mobile Tower : All Units</td>
<td>Rs.120/month/ kW</td>
</tr>
<tr>
<td><strong>E</strong> Irrigation</td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>Rs.30/kW/month</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>Rs.60/kW/month</td>
</tr>
<tr>
<td><strong>F</strong> Water works: All units</td>
<td>Rs.38/kW/month</td>
</tr>
<tr>
<td><strong>G</strong> Industrial</td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>Rs.23/kW/month</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>Rs.30/kW/month</td>
</tr>
<tr>
<td>Consumer Category/Slabs</td>
<td>Tariff approved for FY 2013-14</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td></td>
</tr>
<tr>
<td>Above 20 to 100 HP: All units</td>
<td></td>
</tr>
<tr>
<td>Above 100 HP: All units</td>
<td></td>
</tr>
<tr>
<td><strong>H</strong> Tea, Coffee and Rubber Gardens: All units</td>
<td></td>
</tr>
<tr>
<td><strong>I</strong> Bulk Supply: All units</td>
<td></td>
</tr>
<tr>
<td><strong>J</strong> Public Lighting</td>
<td></td>
</tr>
<tr>
<td>Public Lighting (Panchayat)</td>
<td></td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/ Municipality)</td>
<td></td>
</tr>
<tr>
<td><strong>K</strong> Special Public Utility</td>
<td></td>
</tr>
<tr>
<td>Special Public Utility (Crematorium)</td>
<td></td>
</tr>
<tr>
<td>Special Public Utility (Emergency Water pumping, Drainage, Dewatering etc.)</td>
<td></td>
</tr>
</tbody>
</table>
10. Annexure II: Tariff Schedule for FY 2013-14 after considering Government subsidy

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>Tariff approved for FY 2013-14</th>
<th>Energy charge after considering Govt. Subsidy for FY 2013 - 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fixed Charge (Rs./kW /Con/month)</td>
<td>Energy rate (Rs./kWh)</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>A Kutir Jyoti</td>
<td>Rs.62/Con/month</td>
<td>3.75</td>
</tr>
<tr>
<td>B Domestic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 units</td>
<td>Rs.15/Con/month</td>
<td>3.75</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>Rs.23/Con/month</td>
<td>4.50</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>Rs.38/Con/month</td>
<td>5.60</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>Rs.45/Con/month</td>
<td>5.80</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>Rs.45/Con/month</td>
<td>6.90</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW) : All units</td>
<td>Rs.60/month/kW</td>
<td>6.90</td>
</tr>
<tr>
<td>C Commercial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 - 30 units</td>
<td>Rs.23/Con/month</td>
<td>5.50</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>Rs.30/Con/month</td>
<td>6.20</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>Rs.60/Con/month</td>
<td>6.90</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>Rs.60/kW/month</td>
<td>6.90</td>
</tr>
<tr>
<td>Three Phase (Compulsory above 3 kW): All units</td>
<td>Rs.60/kW/month</td>
<td>6.95</td>
</tr>
<tr>
<td>Three Phase - Group Consumer: All units</td>
<td>Rs.60/kW/month</td>
<td>6.98</td>
</tr>
<tr>
<td>D Mobile Tower : All Units</td>
<td>Rs.120/month/kW</td>
<td>6.98</td>
</tr>
<tr>
<td>E Irrigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>Rs.30/kW/month</td>
<td>4.60</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>Rs.60/kW/month</td>
<td>5.50</td>
</tr>
<tr>
<td>F Water works: All units</td>
<td>Rs.38/kW/month</td>
<td>6.15</td>
</tr>
<tr>
<td>G Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer Category/Slabs</td>
<td>Tariff approved for FY 2013-14</td>
<td>Energy charge after considering Govt. Subsidy for FY 2013 - 14</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>---------------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Fixed Charge (Rs./kW /Con /month)</td>
<td>Energy rate (Rs./kWh)</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>Rs.23/kW/month</td>
<td>5.50</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>Rs.30/kW/month</td>
<td>5.90</td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td>Rs.45/kW/month</td>
<td>6.72</td>
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<tr>
<td>Above 20 to 100 HP: All units</td>
<td>Rs.60/kW/month</td>
<td>6.90</td>
</tr>
<tr>
<td>Above100 HP: All units</td>
<td>Rs.75/kW/month</td>
<td>6.99</td>
</tr>
<tr>
<td>H Tea, Coffee and Rubber Gardens: All units</td>
<td>Rs.75/kW/month</td>
<td>6.95</td>
</tr>
<tr>
<td>I Bulk Supply: All units</td>
<td>Rs.75/kW/month</td>
<td>6.98</td>
</tr>
<tr>
<td>J Public Lighting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Lighting (Panchayat)</td>
<td>Rs.30/kW/month</td>
<td>5.15</td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/ Municipality)</td>
<td>Rs.60/kW/month</td>
<td>6.15</td>
</tr>
<tr>
<td>K Special Public Utility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Public Utility (Crematorium)</td>
<td>Rs.45/kW/month</td>
<td>5.15</td>
</tr>
<tr>
<td>Special Public Utility (Emergency Water pumping, Drainage, Dewatering etc.)</td>
<td>Rs.45/kW/month</td>
<td>5.15</td>
</tr>
</tbody>
</table>
11. Appendix 1: No. of consumers from FY 2011-12 to FY 2013-14 (P)

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Kutir Jyoti</td>
<td>61,028</td>
<td>65,354</td>
<td>90,590</td>
</tr>
<tr>
<td>B Domestic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 units</td>
<td>1,28,159</td>
<td>1,53,870</td>
<td>1,51,042</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>1,67,404</td>
<td>1,66,405</td>
<td>1,97,294</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>89,268</td>
<td>91,792</td>
<td>1,05,207</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>18,745</td>
<td>21,749</td>
<td>22,092</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>4,489</td>
<td>5,227</td>
<td>5,291</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW) : All units</td>
<td>2,582</td>
<td>2,637</td>
<td>3,043</td>
</tr>
<tr>
<td>Total</td>
<td>4,10,647</td>
<td>4,41,680</td>
<td>4,83,969</td>
</tr>
<tr>
<td>C Commercial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 - 30 units</td>
<td>9,857</td>
<td>10,239</td>
<td>11,135</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>26,925</td>
<td>29,858</td>
<td>30,415</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>4,203</td>
<td>4,255</td>
<td>4,748</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>1,608</td>
<td>776</td>
<td>1,816</td>
</tr>
<tr>
<td>Three Phase (Compulsory above 3 kW): All units</td>
<td>1,185</td>
<td>463</td>
<td>539</td>
</tr>
<tr>
<td>Three Phase - Group Consumer: All units</td>
<td>264</td>
<td>245</td>
<td>298</td>
</tr>
<tr>
<td>Total</td>
<td>44,042</td>
<td>46,586</td>
<td>49,751</td>
</tr>
<tr>
<td>D Mobile Tower : All Units</td>
<td>--</td>
<td>750</td>
<td>800</td>
</tr>
<tr>
<td>E Irrigation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>2,638</td>
<td>2,921</td>
<td>3,685</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>1,683</td>
<td>1,753</td>
<td>2,351</td>
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<tr>
<td>Total</td>
<td>4,321</td>
<td>4,674</td>
<td>6,036</td>
</tr>
<tr>
<td>F Water works: All units</td>
<td>3,232</td>
<td>3,748</td>
<td>4,515</td>
</tr>
<tr>
<td>G Industrial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>362</td>
<td>364</td>
<td>378</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>485</td>
<td>532</td>
<td>506</td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td>3,368</td>
<td>3,472</td>
<td>3,515</td>
</tr>
<tr>
<td>Above 20 to 100 HP: All units</td>
<td>334</td>
<td>348</td>
<td>348</td>
</tr>
<tr>
<td>Consumer Category/Slabs</td>
<td>FY 2011-12 (A)</td>
<td>FY 2012-13 (A)</td>
<td>FY 2013-14 (P)</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
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</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Above 100 HP: All units</td>
<td>29</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>4,578</td>
<td>4,744</td>
<td>4,775</td>
</tr>
<tr>
<td>H Tea, Coffee and Rubber Gardens: All units</td>
<td>29</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>I Bulk Supply: All units</td>
<td>818</td>
<td>947</td>
<td>942</td>
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<tr>
<td>J Public Lighting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Lighting (Panchayat)</td>
<td>275</td>
<td>376</td>
<td>347</td>
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<tr>
<td>Public Utility (Nagar Panchayat/Municipality)</td>
<td>847</td>
<td>847</td>
<td>1,068</td>
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<tr>
<td>Total</td>
<td>1,122</td>
<td>1,223</td>
<td>1,415</td>
</tr>
<tr>
<td>K Special Public Utility</td>
<td>85</td>
<td>79</td>
<td>89</td>
</tr>
<tr>
<td>Total consumers</td>
<td>5,29,902</td>
<td>5,69,064</td>
<td>6,42,111</td>
</tr>
</tbody>
</table>
12. Appendix 2: Connected load from FY 2011-12 to FY 2013-14 (P)

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>A Kutir Jyoti</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>B Domestic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 units</td>
<td>20</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>25</td>
<td>27</td>
<td>29</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>28</td>
<td>31</td>
<td>33</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>15</td>
<td>16</td>
<td>19</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>7</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW): All units</td>
<td>27</td>
<td>29</td>
<td>35</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>122</strong></td>
<td><strong>132</strong></td>
<td><strong>149</strong></td>
</tr>
<tr>
<td>C Commercial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 - 30 units</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Three Phase (Compulsory above 3 kW): All units</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Three Phase - Group Consumer: All units</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>26</strong></td>
<td><strong>28</strong></td>
<td><strong>30</strong></td>
</tr>
<tr>
<td>D Mobile Tower : All Units</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>E Irrigation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>11</td>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td><strong>20</strong></td>
<td><strong>23</strong></td>
</tr>
<tr>
<td>F Water works: All units</td>
<td>29</td>
<td>34</td>
<td>41</td>
</tr>
<tr>
<td>G Industrial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td>31</td>
<td>31</td>
<td>35</td>
</tr>
<tr>
<td>Above 20 to 100 HP: All units</td>
<td>23</td>
<td>24</td>
<td>25</td>
</tr>
</tbody>
</table>
## Tariff Order for TSECL for FY 2013-14

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Above100 HP: All units</td>
<td>4</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>61</td>
<td>62</td>
<td>68</td>
</tr>
<tr>
<td>H Tea, Coffee and Rubber Gardens: All units</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>I Bulk Supply: All units</td>
<td>27</td>
<td>29</td>
<td>31</td>
</tr>
<tr>
<td>J Public Lighting</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Public Lighting (Panchayat)</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/Municipality)</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>K Special Public Utility</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Total connected load</td>
<td>296</td>
<td>322</td>
<td>360</td>
</tr>
</tbody>
</table>
## 13. Appendix 3: Energy sales from FY 2011-12 to FY 2013-14

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (Approved)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Kutir Jyoti</td>
<td>16.66</td>
<td>16.47</td>
<td>17.22</td>
</tr>
<tr>
<td><strong>B</strong> Domestic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic (Rural): 0-30 units</td>
<td>53.26</td>
<td>58.57</td>
<td>64.43</td>
</tr>
<tr>
<td>Slab 1 - upto 50 units</td>
<td>65.48</td>
<td>72.01</td>
<td>79.21</td>
</tr>
<tr>
<td>Slab 2 - next 100 units</td>
<td>74.85</td>
<td>82.31</td>
<td>90.54</td>
</tr>
<tr>
<td>Slab 3 - next 150 units</td>
<td>40.11</td>
<td>44.11</td>
<td>50.72</td>
</tr>
<tr>
<td>Slab 4 – 301 units onwards</td>
<td>19.60</td>
<td>21.56</td>
<td>24.79</td>
</tr>
<tr>
<td>Three Phase (compulsory above 3 kW): All units</td>
<td>71.09</td>
<td>78.18</td>
<td>89.91</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>324.41</strong></td>
<td><strong>356.73</strong></td>
<td><strong>399.60</strong></td>
</tr>
<tr>
<td><strong>C</strong> Commercial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Commercial / Pan shop: 0 - 30 units</td>
<td>4.85</td>
<td>5.52</td>
<td>5.62</td>
</tr>
<tr>
<td>Slab 1 - upto 150 units</td>
<td>26.52</td>
<td>30.15</td>
<td>31.96</td>
</tr>
<tr>
<td>Slab 2 – 151 units onwards</td>
<td>8.56</td>
<td>9.73</td>
<td>10.12</td>
</tr>
<tr>
<td>Semi-commercial: All units</td>
<td>7.42</td>
<td>8.43</td>
<td>8.85</td>
</tr>
<tr>
<td>Three Phase (Compulsory above 3 kW): All units</td>
<td>10.76</td>
<td>12.23</td>
<td>12.84</td>
</tr>
<tr>
<td>Three Phase - Group Consumer: All units</td>
<td>2.24</td>
<td>2.55</td>
<td>2.58</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>60.35</strong></td>
<td><strong>68.60</strong></td>
<td><strong>71.97</strong></td>
</tr>
<tr>
<td><strong>D</strong> Mobile Tower : All Units</td>
<td>--</td>
<td>--</td>
<td><strong>22.00</strong></td>
</tr>
<tr>
<td><strong>E</strong> Irrigation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 H.P. : All units</td>
<td>9.63</td>
<td>9.02</td>
<td>9.84</td>
</tr>
<tr>
<td>Above 5 H.P. : All units</td>
<td>19.18</td>
<td>28.15</td>
<td>30.68</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>28.81</strong></td>
<td><strong>37.17</strong></td>
<td><strong>40.52</strong></td>
</tr>
<tr>
<td><strong>F</strong> Water works: All units</td>
<td><strong>47.70</strong></td>
<td><strong>63.73</strong></td>
<td><strong>73.29</strong></td>
</tr>
<tr>
<td><strong>G</strong> Industrial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upto 5 HP (E-R/5) : All units</td>
<td>0.44</td>
<td>0.54</td>
<td>0.76</td>
</tr>
<tr>
<td>Upto 5 HP (E-U/5) : All units</td>
<td>0.71</td>
<td>0.88</td>
<td>1.23</td>
</tr>
<tr>
<td>Above 5 to 20 HP: All units</td>
<td>15.92</td>
<td>19.68</td>
<td>25.58</td>
</tr>
</tbody>
</table>
## Tariff Order for TSECL for FY 2013-14

<table>
<thead>
<tr>
<th>Consumer Category/Slabs</th>
<th>FY 2011-12 (A)</th>
<th>FY 2012-13 (A)</th>
<th>FY 2013-14 (Approved)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Above 20 to 100 HP: All units</td>
<td>12.00</td>
<td>14.83</td>
<td>19.28</td>
</tr>
<tr>
<td>Above 100 HP: All units</td>
<td>2.32</td>
<td>2.86</td>
<td>3.72</td>
</tr>
<tr>
<td>Total</td>
<td>31.39</td>
<td>38.79</td>
<td>50.56</td>
</tr>
<tr>
<td>H Tea, Coffee and Rubber Gardens: All units</td>
<td>0.61</td>
<td>0.56</td>
<td>0.74</td>
</tr>
<tr>
<td>I Bulk Supply: All units</td>
<td>88.65</td>
<td>87.23</td>
<td>100.31</td>
</tr>
<tr>
<td>J Public Lighting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Lighting (Panchayat)</td>
<td>2.76</td>
<td>3.07</td>
<td>3.53</td>
</tr>
<tr>
<td>Public Utility (Nagar Panchayat/Municipality)</td>
<td>20.98</td>
<td>23.30</td>
<td>26.80</td>
</tr>
<tr>
<td>Total</td>
<td>23.74</td>
<td>26.37</td>
<td>30.33</td>
</tr>
<tr>
<td>K Special Public Utility</td>
<td>1.86</td>
<td>1.84</td>
<td>2.04</td>
</tr>
<tr>
<td>Total energy sold</td>
<td>624.17</td>
<td>697.50</td>
<td>808.58</td>
</tr>
</tbody>
</table>