



**ORDER
OF THE
WEST BENGAL ELECTRICITY REGULATORY COMMISSION**

**FOR THE YEARS 2009 – 2010, 2010 – 2011,
2011 – 2012, 2012 – 2013 AND 2013 – 2014**

IN

CASE NO: TP – 62 / 14 - 15

**IN RE THE TARIFF APPLICATION OF DAMODAR VALLEY
CORPORATION FOR THE YEARS 2009 – 2010, 2010 – 2011,
2011 – 2012, 2012 – 2013 AND 2013 – 2014**

UNDER SECTION 64(3)(a)

READ WITH SECTION 62(1) AND SECTION 62(3)

OF THE ELECTRICITY ACT, 2003

DATE: 24.08.2015



CHAPTER – 1 INTRODUCTION

- 1.1 The West Bengal Electricity Regulatory Commission (hereinafter referred to as the “Commission”), a statutory body under the first proviso to section 82(1) of the Electricity Act, 2003 (hereinafter referred to as the “Act”), has been authorized in terms of section 86 and section 62(1) of the Act to determine the tariff for a) supply of electricity by a generating company to a distribution licensee, b) transmission of electricity, c) wheeling of electricity and d) retail sale of electricity, as the case may be, within the State of West Bengal.
- 1.2 Damodar Valley Corporation (hereinafter referred to as DVC’ or the ‘Petitioner’), is a statutory body incorporated under the Damodar Valley Corporation Act, 1948 and undertakes multifarious functions. In regards to the electricity, DVC undertakes generation of electricity at their plants situated in two states viz. West Bengal and Jharkhand and is therefore a generating company within the meaning of Section 2 (28) of the Electricity Act, 2003. DVC also undertakes transmission of electricity in the Damodar Valley area which falls within the territorial limits of the two states namely, West Bengal and Jharkhand. It, therefore, undertakes inter-state transmission of electricity and operates inter-state transmission system within the meaning of Section 2 (36) of the Electricity Act, 2003. DVC also undertakes the sale of electricity to West Bengal State Electricity Distribution Company Limited (WBSEDCL) and Jharkhand State Electricity Board (JSEB) in its capacity generally as a generating company. This is bulk sale of electricity by a generating company to a distribution licensee within the meaning of section 62 (1) of the Electricity Act, 2003. In addition to the above, DVC undertakes the retail sale and supply of electricity to the consumers in the Damodar Valley area which falls in two contiguous States, namely State of West Bengal and the State of Jharkhand.
- 1.3 DVC being a statutory body constituted under the DVC Act, 1948, is a Central Public Sector Undertaking (CPSU). As envisaged under Section 79 (1) (a) of the Electricity Act, 2003, the tariff for generation of electricity is to be decided by the



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- Central Electricity Regulatory Commission (CERC). Similarly, with regards to the inter-state transmission, DVC again is regulated by CERC and tariff for composite (inter-state) generation and transmission is to be determined by the CERC in terms of Section 79(1) (c) and (d) of the Electricity Act, 2003.
- 1.4 With regards to the retail sale and supply of electricity, DVC covers the entire Damodar Valley area which falls in two contiguous States, namely the State of West Bengal and the State of Jharkhand. Thus, tariff for retail sale and supply of electricity in the Damodar Valley area is governed by the provisions of Section 62 (d) read with Section 86 (1) of the Electricity Act, 2003 and has to be determined by the respective Electricity Regulatory Commissions in the states of west Bengal and Jharkhand.
- 1.5 West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 in supersession of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2007 notified vide no. 31/WBERC dated 09.02.2007 with all its amendments (in short 'Tariff Regulations, 2007) has been published vide notification no. 48/WBERC dated 25.04.2011 and came into effect with effect from 29th April, 2011, i.e., the date of its publication. The said Tariff Regulations, 2011 was subsequently amended by notifying the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012 and West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2013 in the extra ordinary edition of The Kolkata Gazette dated 27th August, 2012 and 30th July, 2013 respectively.
- 1.6 A generating Company or a licensee, whose tariff is to be determined by the Commission as per the provisions of the Act, is required to submit their application for determination of tariff for all the ensuing years of the control period under the multi-year tariff framework complying with the provisions of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff)



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Regulations, 2011, as amended (hereinafter to be referred as 'Tariff Regulations').

- 1.7 Earlier, DVC filed two petitions on 03.11.2009 for the determination of tariff for distribution and retail supply of electricity to consumers serviced by DVC in the part of Damodar Valley falling within the territorial jurisdiction of the state of West Bengal for the period 2006-07 to 2008-09 and for 2009-10 to 2010-11 which were numbered as TP-43/09-11 and TP-44/09-10 respectively. The said Petitions were not processed by the Commission as the tariff for generation and transmission of electricity applicable to DVC, which is the input tariff to be determined by CERC, was not finalized and there were also orders passed by the Appellate Tribunal for Electricity (APTEL) in the appeals arising out of orders passed by CERC directing that no final orders be passed by the State Commissions on the retail supply tariff till further orders.
- 1.8 DVC filed an application dated 12.09.2011, received at the Commission's office on 13.09.2011 for finalization of the revenue requirements and tariff admissible to DVC for the distribution and retail supply of electricity to consumers serviced by DVC in the part of Damodar Valley falling within the territorial jurisdiction of the state of West Bengal for the period from 2011-12 to 2013-14 which was numbered as TP-52/11-12.
- 1.9 After scrutiny of the tariff application dated 12.09.2011, DVC was directed to submit additional information which was submitted by DVC on 15.12.2011.
- 1.10 The tariff application of DVC dated 12.09.2011 along with the additional information submitted by DVC on 15.12.2011 had been admitted by the Commission on 31.07.2013.
- 1.11 A gist of the application dated 12.09.2011 along with the additional information received on 15.12.2011 was published simultaneously in 'Ananda Bazar Patrika', 'Bartaman', 'Times of India' and 'Sanmarg' on 10.08.2013 inviting suggestions



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and objections on the application. The gist along with the tariff petition was also posted in the website of DVC.

- 1.12 The matter was challenged before the Hon'ble High Court at Calcutta on 04.06.2013 by M/s Bhaskar Shrachi Alloys Limited and Anrs, the consumers of DVC. Hon'ble High Court at Calcutta passed an order dated 20.12.2013 in W.P. No. 3524P (W) of 2013 directing DVC to file application for determination of retail tariff in terms of the order dated 30.09.2013 of Central Electricity Regulatory Commission as also in terms of the Tariff Regulations dated 25.04.2011 before the State Commission for the period 2009 – 2014 and also directing the State Commission to dispose the matter preferably within a period of 120 days but not later than six months from the date of filing of the said petition after giving a reasonable opportunity of hearing to the respective parties.
- 1.13 DVC submitted a petition dated 26.12.2013 with the captioned subject "petition for submission of revised input cost as per final determination of tariff by Central Electricity Regulatory Commission (in short 'CERC') pertaining to generation & T&D network of DVC in respect of distribution and retail supply for electricity for the part of the Damodar Valley area falling within the territory of State of West Bengal for the years 2006 – 2007 to 2013 – 2014" on 26.12.2013. DVC vide letter no. WBERC/TP-52/11-12/1586 dated 30.12.2013 was communicated to abide by the direction given in the order passed by the Hon'ble High Court at Calcutta on 20.12.2013 in W.P. No. 3524P(W) of 2013 and to submit their application for determination of retail tariff for the years 2009 – 2014 in accordance with the provision of the Tariff Regulations.
- 1.14 DVC on 03.02.2014 submitted an application dated 03.02.2014 for determination of tariff for distribution and retail supply of electricity for the part of the Damodar Valley area falling within the territory of the State of West Bengal for the years 2009 – 2014 along with same data formats.



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- 1.15 After scrutiny of the documents submitted by DVC on 03.02.2014, DVC, vide letter no. WBERC/TP-52/11-12/ dated 14.02.2014 was asked to submit some other information / documents which were not submitted along with their application dated 03.02.2014 in accordance with the Tariff Regulations. DVC submitted the required further information / documents on 03.04.2014 and 28.04.2014. The petition of DVC along with the documents / information submitted by DVC from time to time (collectively called as 'tariff petition') have been admitted by the Commission and numbered as TP-62/14-15.
- 1.16 After submission of the petition along with the additional information, DVC was directed to publish the gist of the tariff application along with the additional information, as approved by the Commission, in the newspapers and also in their website, as specified in the Tariff Regulations. The gist of the application was published simultaneously on 10th May, 2014 in 'Ananda Bazar Patrika', 'Bartaman', 'The Statesman' and 'Sanmarg'. The gist along with the tariff petition was also posted in the website of DVC. The publication invited the attention of all interested parties, stake holders and the members of the public to the tariff petition of DVC for the period 2009 – 2010 to 2013 – 2014 and requested for submission of suggestions, objections and comments, if any, on the tariff petition to the Commission by 10.06.2014 at the latest. Opportunities were also afforded to all to inspect the tariff application and take copies thereof.
- 1.17 Objections to / comments on the aforementioned tariff petition of DVC were received by the Commission from the following objectors within the stipulated time i.e., 10.06.2014.
1. West Bengal State Electricity Distribution Company Limited (WBSEDCL)
 2. Nikenth Ferro Limited
 3. Impex Ferro Tech Limited



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4. VSP Udyog Private Limited
 5. Maithon Alloys Limited
 6. Shree Ambay Ispat Pvt Ltd.
- 1.18 Surya Alloy Industries Limited, having office at 1/1 Camac Street, 3rd floor, Kolkata 700 016, requested for extension of the due date of submission of suggestions, objections by 10 days on 10.06.2014. The Commission, however, decided not to extend the date of submission of suggestions, objections and comments on the tariff petition of DVC for 2009 – 2010 to 2013 – 2014 and the same was communicated to Surya Alloy Industries Limited vide letter dated 10.06.2014. Surya Alloys Industries Limited, however, submitted their suggestion and objection on 12.06.2014 i.e., after the due date. Hira Concast Limited and Impex Steel Limited also submitted their suggestion and objection on 13.06.2014, i.e., after the due date.
- 1.19 Surya Alloy Industries Limited and Anr filed a petition before the High Court at Calcutta with the prayer for stay on the communication of the Commission dated 10.06.2014 and injunction restraining the Commission from considering the retail tariff of DVC without considering the objection already filed by Surya Alloy Industries Limited on 12.06.2010 in any manner, whatsoever. Hon'ble Justice Sahidullah Munshi passed an order on 16.07.2014 in the matter in W.P. No. 18463 (W) of 2014 which is inter-alia as follows:
- “However, condonation of the said delay is to be decided on merits. As an interim measure, I only direct that if any decision is taken by the authorities concerned in the meantime, the same will abide by the result of the writ petition. The respondent authorities, however, if not agreeable to condone the delay, they are given liberty to file Affidavit-in-Opposition within a period of two weeks from date. Affidavit-in-Reply thereto, if any, be filed within one week thereafter.



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Let the matter appear in the list three weeks hence.

However, liberty is also given to the petitioner to pray for further interim order, if situation so demands, at a subsequent stage, after giving notice to the respondent authorities.”

- 1.20 The Commission, however, decides to consider the suggestions and objections of Surya Alloy Industries Limited as they prayed for extension of time within the stipulated time of 10.06.2014. The Commission, however, do not consider to accept the suggestions and objections of M/s Hira Concast Limited and Impex Steel Limited as they submitted their suggestions and objections after the due date without praying for extension of time within 10.06.2014.
- 1.21 Objections and suggestions on the tariff petition in question have been dealt with separately in Chapter – 2.
- 1.22 This order relates to tariff petition filed by the Petitioner before the Commission for determination of ARR from FY 2009-10 to FY 2013-14 and determination of retail tariff for FY 2013-14 for supply in Damodar Valley area falling within the territorial jurisdiction of the State of West Bengal. The Order is in accordance with Sections 61, 62 and 64 of the Electricity Act, 2003 and provisions of the Tariff Regulations.



CHAPTER – 2 THE CASES OF DVC

2.1 Brief history on the tariff petitions filed by DVC:

2.1.1 As per Order dated 29.03.2005 of CERC in petition No. 168/2004 (*Suo Motu*), DVC submitted the application for determination of Tariff for sale of electricity by DVC and inter-state Transmission of electricity and CERC passed an Order dated 3rd October 2006 against the Petition No. 66/2005 filed by DVC for generation tariff and inter-state transmission of electricity. DVC filed an appeal on 16th November 2006 before Appellate Tribunal for Electricity against the Order dated 3rd October 2006 passed by CERC [Appeal No. 273 of 2006].

2.1.2 WBERC preferred an appeal being No. 8 of 2007 (WBERC- Vs – CERC & Ors) on 08.01.2007 and the same was admitted on 15.01.2007 by the Hon'ble Appellate Tribunal for Electricity (in short 'Appellate Tribunal'). The following Appeals had also been filed:

- (a) Appeal No 273 of 2006 - DVC -Vs- CERC & Ors
- (b) Appeal No 275 of 2006 - State of Jharkand -Vs- CERC & Ors
- (c) Appeal No 271 of 2006 - Maithan Alloys Ltd. & Ors –Vs- CERC & Ors
- (d) Appeal No 272 of 2006 - Bhaskar Shrachhi Alloyes -Vs- CERC & Ors Ltd. & Ors.

The aforesaid appeals were tagged with our Appeal No 8 of 2007 and were partly heard.



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- 2.1.3 In terms of the interim order dated 14.03.2007 of the Appellate Tribunal in Appeal No. 273 of 2006 (Appeal No. 8 of 2007 of the Commission), DVC submitted an application on 02.04.2007 in regard to fixation of retail tariff for power supply of DVC in the State of West Bengal for the year 2006-07 which was admitted by the Commission in case No. TP-33/07-08. A gist of tariff revision application approved by Commission was published by DVC in an abridged form on 12.04.2007 in the leading dailies, inviting objections and comments etc from the public and stakeholders. On the basis of the orders dated 14.03.2007 and 16.09.2009 of the Appellate Tribunal, the Commission was restrained to pass an order on the application of DVC for the year 2006 – 2007. DVC subsequently submitted two separate petitions for the years 2006 – 2007 to 2008 – 2009 and 2009 – 2010 to 2010 – 2011 on 03.11.2011 which were admitted by the Commission in TP-43/09-10 and TP-44/09-10 respectively. The Commission thus passed an order dated 12.02.2010 to close the case no. TP-33/07-08 pertaining only to the tariff application for 2006 – 2007.
- 2.1.4 The above appeals were moved before the Hon'ble Justice Anil Dev Singh and the Hon'ble Member A. A. Khan in the Appellate Tribunal on 14.05.2007 and 15.05.2007 and they did not pass any order for granting liberty to WBERC to pass the provisional tariff order. Instead they opined that since they are hearing all the matters, it would be better to wait for the outcome of these appeals. The Appellate Tribunal passed a common final judgement and order dated 23 November, 2007 in above mentioned Appeal including WBERC's Appeal No. 8 of 2007.
- 2.1.5 Being dissatisfied with the said order of the Appellate Tribunal this Commission filed an Appeal Bearing No. 804/08 in the Hon'ble Supreme Court. No interim



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order has been passed by the Hon'ble Supreme Court for stay of the order dated 23 November 2007 of the Appellate Tribunal. The Appeal is still pending.

- 2.1.6 Since there is no interim order for staying the order of the Appellate Tribunal, CERC in terms of the order dated 23 November, 2007 of the Appellate Tribunal has determined afresh the generation and transmission tariff of DVC for the period from 01.04.2006 to 31.03.2009 vide their order dated 06.08.2009.
- 2.1.7 Though DVC had filed an Appeal being No. 146 of 2009 before the Appellate Tribunal against the order dated 06.08.2009 of CERC, they submitted following tariff petitions to this Commission:
- (i) Tariff Petition (affidavit dated 29.10.2009 and forwarding letter dated 30.10.2010) received on 03.11.2009 for 2006-07 to 2008-09 in file no. TP-43/09-10 of the Commission.
 - (ii) Tariff Petition (affidavit dated 29.10.2009 and forwarding letter dated 30.10.2010) received on 03.11.2009 for 2009-10 and 2010-11 in file no. TP-44/09-10 of the Commission.
- 2.1.8 A letter bearing no. WBERC/TP-43 & TP-44/09-10/1107 dated 12.02.2010 was issued to DVC pointing out some deficiencies in the tariff petition and some other requirements. DVC was advised to fulfill those requirements.
- 2.1.9 DVC submitted information with their letter no. COML/WBERC/TARIFF-4845 dated 22.06.2011.
- 2.1.10 Interim order had been passed by the Appellate Tribunal on 16.09.2009 in the IA related to the Appeal No. 146 of 2009 to the effect that the Commissions
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(WBERC & JSERC) may proceed to fix the Retail Supply Tariff but not to pass any final order in that regard.

2.1.11 DVC filed an Appeal bearing no. 7722 of 2009 before the Hon'ble Supreme Court challenging the interim order dated 28.10.2009 passed by the Appellate Tribunal in IA NO 300/09 in Appeal no. 146 of 2009. Hon'ble Supreme Court vide its order dated 06.01.2010 disposed of the appeal of DVC by modifying the order of Appellate Tribunal with the directions that instead of indicating those applications for impleadment could be filed, the publication to be made should indicate that objections could be filed in the proceedings before the CERC by any of the HT consumers. Having regard to the dispute, Hon'ble Supreme Court requested the Appellate Tribunal to dispose of the pending appeal, if possible, within a period of 3 (three) months from the date of communication of the order. Finally the Appellate Tribunal passed an order dated 10.05.2010 in Appeal No. 146 of 2009 and related IAs with the following observations.

“With this observation, this appeal is dismissed as devoid of merits, consequently all the IAs are disposed of. No order on to costs.”

2.1.12 Among the other directions in the order, the Appellate Tribunal has given the following direction:

“Thereafter, the DVC is directed to approach the concerned State Electricity Commission for getting the final order relating to the Retail Tariff who in turn will fix the retail tariff according to law.”

2.1.13 DVC submitted an application for generation and transmission tariff for 2009-10 to 2013-14 before CERC. CERC passed an order dated 23.06.2011 determining



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provisional tariff of DVC for generation, transmission for the years 2009-10 to 2013-14.

- 2.1.14 DVC submitted an application for tariff for the years 2011-12 to 2013-14 to this Commission vide their no. COM/TARIFF/WBERC/5998 dated 12.09.2011 and additional information submitted vide no. COM/TARIFF/WBERC/7160 dated 14.12.2011 in reply to letter no. WBERC/TP-52/11-12/0722 dated 18.11.2011 of the Commission.
- 2.1.15 The tariff application of DVC dated 12.09.2011 along with the additional information submitted by DVC on 15.12.2011 had been admitted by the Commission on 31.07.2013 after availing all legal clearances in respect of such admittance and DVC was advised to publish the gist of the application in the newspapers inviting suggestions and objection from the stakeholders and the public as per provision of the Tariff Regulations.
- 2.1.16 A gist of the application dated 12.09.2011 along with the additional information received on 15.12.2011 was published simultaneously in 'Ananda Bazar Patrika', 'Bartaman', 'Times of India' and 'Sanmarg' on 10.08.2013 inviting suggestions and objections on the application. The gist along with the tariff petition was also posted in the website of DVC.
- 2.1.17 The matter was challenged before the Hon'ble High Court at Calcutta in WP No. 27044(W) of 2013 by M/s Bhaskar Shrachi Alloys Limited and Anrs., the consumers of DVC, on the ground that the order dated 23.06.2011 of CERC determining the provisional tariff of DVC for generation and transmission for the years 2009 – 2010 to 2013 – 2014 based on which the tariff application dated 12.09.2011 was filed by DVC, had been set aside by Hon'ble High Court at Calcutta vide order dated 07.12.2012. A writ petition was also filed by Impex



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Ferro Tech Limited and other before the Hon'ble High Court at Calcutta in W.P. No. 35245 (W) of 2013 challenging the energy bill preferred by DVC on the basis of the provisional tariff order dated 23.06.2011 of CERC. Hon'ble High Court at Calcutta passed an order dated 20.12.2013 in W.P. No. 35245 (W) of 2013 directing DVC to file application for determination of retail tariff in terms of the order dated 30.09.2013 of Central Electricity Regulatory Commission as also in terms of the Tariff Regulations dated 25.04.2011 before this State Commission for the period 2009 – 2014 and also directing the State Commission to dispose the matter preferably within a period of 120 days but not later than six months from the date of filing of the said petition after giving a reasonable opportunity of hearing to the respective parties.

2.1.18 DVC submitted a petition dated 26.12.2013 with the captioned subject “petition for submission of revised input cost as per final determination of tariff by CERC pertaining to generation & T&D network of DVC in respect of distribution and retail supply for electricity for the part of the Damodar Valley area falling within the territory of State of West Bengal for the years 2006 – 2007 to 2013 – 2014” on 26.12.2013. DVC vide letter no. WBERC/TP-52/11-12/1586 dated 30.12.2013 was communicated to abide by the direction given in the order passed by the Hon'ble High Court at Calcutta on 20.12.2013 in W.P. No. 35245(W) of 2013 and to submit their application for determination of retail tariff for the years 2009 – 2014 in accordance with the provision of the Tariff Regulations.

2.1.19 DVC on 03.02.2014 submitted an application dated 03.02.2014 for determination of tariff for distribution and retail supply of electricity for the part of the Damodar Valley area falling within the territory of the State of West Bengal for the years 2009 – 2014 along with the data formats.



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- 2.1.20 After scrutiny of the documents submitted by DVC on 03.02.2014, DVC, vide letter no. WBERC/TP-52/11-12/1812 dated 14.02.2014 was asked to submit some other information / documents which were not submitted along with their application dated 03.02.2014 in accordance with the Tariff Regulations. DVC submitted the required further information / documents on 11.03.2014. On scrutiny of the documents submitted by DVC on 11.03.2014, DVC was asked to submit further information/documents vide letter WBERC/TP-52/11-12/1942 dated 14.03.2014. DVC submitted requirements information / documents on 03.04.2014 and 28.04.2014. The petition of DVC along with the documents / information submitted by DVC from time to time (collectively called as 'tariff petition for 2009-14') has been admitted by the Commission.
- 2.1.21 After admission of the petition along with the additional information, DVC was directed to publish the gist of the tariff petition along with the additional information, as approved by the Commission, in the newspapers and also in their website, as specified in the Tariff Regulations. The gist of the petition was published simultaneously on 10th May, 2014 in 'Ananda Bazar Patrika', 'Bartaman', 'The Statesman' and 'Sanmarg'. The gist along with the tariff petition was also posted in the website of DVC. The publication invited the attention of all interested parties, stake holders and the members of the public to the tariff petition of DVC for the third control period and requested for submission of suggestions, objections and comments, if any, on the tariff petition to the Commission by 10.06.2014 at the latest. Opportunities were also afforded to all to inspect the tariff petition and take copies thereof.
- 2.1.22 An application was filed before the Hon'ble High Court at Calcutta in R.V. W. 33 of 2014 by the Commission for review of the order dated 20.12.2013 regarding



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hearing issue and to remove the defects. An order was passed by the Hon'ble High Court at Calcutta on 31.07.2014 with the following observations:

“..... The purpose of giving an opportunity of hearing to the concerned and respective parties to ensure that a fair procedure is followed and the Commission could arrive at a just and fair conclusion on consideration of all the materials that are placed before the Tribunal. Even if in a situation where the statute may be silent with regard to giving an opportunity of hearing, the statutory authority in order to arrive at a just conclusion can give an opportunity of hearing to the persons whose opinion or views, the authority might feel it necessary to arrive at a proper conclusion.

The application being R.V.W. 33 of 2014 accordingly stands disposed of with the aforesaid observations.”

2.1.23 An application was filed by the Commission before the Hon'ble High Court at Calcutta on 03.09.2014 challenging the order dated 31.07.2014 in R.V.W. 33 of 2014. Hearing on appeal concluded on 19.03.2015 but the Hon'ble Court reserved the judgement.

2.1.24 Hon'ble High Court at Calcutta passed an order on 29.04.2015, the excerpts of which are given below:

”In view of the aforesaid discussion, we hold that the respondent / writ petitioners are not entitled to oral hearing as of right or on equitable principles in the instant case in the course of fixation of retail / distribution tariff under the Act of 2003. Hence, the orders



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dated 20.12.2013 and 31.07.2014 are modified to the extent that the appellant State Commission is not duty bound to give oral hearing to the respondent / writ petitioners in the course of such tariff fixation.

It is however directed that the Appellate Commission shall fix the retail tariff on the tariff application of DVC after duly considering all the suggestions / objections raised by the respondent / writ petitioner and others in accordance with law within two months from the date of communication of the order.

With the aforesaid directions the appeals are disposed of.”

2.1.25 Accordingly, the Commission now proceeds with the tariff petition submitted by DVC for 2009 – 2010 to 2013 – 2014 and the suggestions / objections received from stakeholders on the said applications gist of which was published on 10.05.2014 in the leading newspapers and in the website of DVC inviting suggestions and objection.

2.2 Tariff petition of DVC for the period 2009 – 2010 to 2013 – 2014:

2.2.1 The tariff petition of DVC for the years 2009 – 2010 to 2013 – 2014 includes the following:

- (a) Estimation of projected expenditure for the years 2009 – 2010 to 2013 – 2014 based on the tariff order passed by CERC for the years 2009 – 2014 in respect of generating stations and T&D net work of DVC.



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- (b) Projection of Aggregate Revenue Requirement ('ARR') for the years 2009 – 2010 to 2013 – 2014 based on the financial modalities with necessary assumptions in line with the approach generally adopted by CERC; and
- (c) Projection of retail supply tariffs for the years 2009 – 2010 to 2013 – 2014.

The net Aggregate Revenue Requirement (ARR) projected by DVC for sale to consumers in West Bengal for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 are Rs. 193019.90 lakh, Rs. 198511.22 lakh, Rs. 266090.07 lakh, Rs. 306240.10 lakh and Rs. 425460.76 lakh with projected average cost of supply at 334.04 paise / kWh, 340.65 paise / kWh, 427.87 paise / kWh, 444.96 paise / kWh and 534.10 paise / kWh respectively.

2.3 The Submission of DVC in the tariff petition for 2009 – 2010 to 2013 – 2014 and the salient features of their proposal are given in the following paragraphs:

2.3.1 DVC is supplying pooled power to its consumers under operational area in both West Bengal and Jharkhand from its own generation and power purchase from central sectors, power exchange and other utilities. DVC also avails the services of the Power Grid Corporation of India Limited (in short 'PGCIL') for conveyance of electricity from place of generation of NTPC, NHPC, etc. through interstate transmission and the transmission charge payable by DVC to PGCIL for purchasing power from CSGS/other sources. The power purchase cost and transmission cost so incurred by DVC are the input cost in deciding the retail tariff for sale and supply at DVC area.

2.3.2 Energy charge rate for the period 2009 – 2010 to 2012 – 2013 are prepared based on actual fuel data for the period from 2009 – 2010 to 2012 - 2013. Fuel data for the period are projected as per financial model for projection of energy charge rate.



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- 2.3.3 DVC submitted that the sale of energy for the years 2009 – 2010 to 2013 - 2014 to its consumers under its entire command area fallen within the States of West Bengal and Jharkhand. DVC has also submitted sale of power to consumers in West Bengal upto the year 2013 – 2014.
- 2.3.4 Demand charge has been proposed considering the fixed charge allowed provisionally by CERC for generation and T&D system. Demand charge is proposed to be levied on the basis of the following:
- a) Maximum demand recorded during the month or 85% of the contract demands whichever is higher as per provision of Tariff Regulations.
 - b) Extra charge in case the consumption of power is in excess of contract demand.
- 2.3.5 In order to reduce the loss level of system, DVC has proposed to allow rebate to the industrial consumers at 132 kV and 220 kV to encourage high voltage consumers.
- 2.3.6 Average energy charge under TOD tariff scheme has been proposed to be less than non TOD tariff scheme. Energy charge of 132 kV traction supply has been proposed to be kept lower in order to keep net rate of the same nearer to maximum net rate of 132 kV TOD tariff system due to their inherent consumption patterns with very low load factor.
- 2.3.7 DVC has proposed a provision for minimum charges in the tariff design in order to ensure recovery of entire fixed charges of own generating stations including composite T&D network. The minimum charge shall be applicable on the contract demands when the sum of the energy charge and demand charge including rebate and surcharge, if any, is less than the minimum charge.



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- 2.3.8 The power factor (PF) rebate structured on the basis of consumption profile during 2013 – 2014 is proposed to be applicable for $PF \geq 94\%$ in different steps. The same percentage of rebate at different steps has been proposed for consumers of all voltage level.
- 2.3.9 The load factor (LF) rebate is proposed to be applicable beyond LF of 65% in different steps based on load profile in the preceding year as a whole in DVC command area but the rate of such rebate is different at different voltage levels. The new formulae for computation of load factor for the purpose of billing are proposed to be effective from the date of effect of revised rate.
- 2.3.10 DVC has proposed surcharge @ 5 paise / kWh for the industrial consumers if the load factor falls below 30% but equal to or above 25% for the amount of energy by which consumptions fall short corresponding to load factor of 30%. Similarly, they have proposed rate @ 30 paise / kWh for the load factor below 25% for the amount of energy by which the consumption falls short corresponding to a load factor of 25% but not less than the amount of surcharge that would have been payable for load factor at 25% computed @ 5 paise / kWh.
- 2.3.11 DVC also proposed rebate for timely payment to be varying with the date of payment starting from 2% downwards. The details are given below:

No. of days from the date of presentation of the bill	Percentage of rebate
Within 2 days	2.00
Within 3 days to 6 days	1.20
Within 7 days to 10 days	0.67
Within 11 days to 14 days	0.13
After 14 days	0.00

- 2.3.12 DVC has submitted that its transmission and distribution activity is composite and integrated in nature. DVC has also submitted that the Commission may consider



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the applicability of composite T&D loss of DVFC instead of only distribution loss in part of DVC command area falling in the State of West Bengal owing to its deemed unified and integrated nature of T&D network and peculiar geographical position. In this regard, DVC has cited excerpts of an order passed by the Hon'ble Appellate Tribunal on 23.11.2007 which is reproduced below:

“111. DVC has been supplying power from its generating stations to West Bengal Electricity Board and Jharkhand Electricity Board along with nearly 120 HT-Consumers either through inter-state transmission lines or through the point-to-point ‘dedicated transmission lines’. We, therefore, conclude that all transmission systems of DVC be considered as unified deemed inter-state transmission system, insofar as the determination of tariff is concerned and as such regulatory power for the same be exercised by the Central Commission.”

2.3.13 DVC could not fulfil Renewable Power Obligation (RPO) during 2011 – 2012 inspite of their best effort. DVC also could not fulfil the RPO due to non-availability of Renewable power from the stations from where DVC expected to purchase during 2012 – 2013. However, Renewable Energy Certificates to the tune of 3044 nos. could be purchased from exchanges and related expenditures are included in the ARR for 2012 – 2013. DVC has also tied up with different units of NTPC, NVVNL to purchase renewable power to fulfil their RPO during 2013 – 2014 to the extent possible.

2.3.14 It is submitted by DVC that levies, taxes, duties, ULDC charges, RLDC charges, SLDC charges, service tax, etc. that may be charged or levied by various authorities on DVC have been included to the extent they are not part of the tariff determined by CERC and part of the input costs.



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- 2.3.15 DVC has been undertaking LT supply for very insignificant quantum of electricity to meet its own colony consumption at different field formations and also to meet the lighting load at Bokaro Railway station and Waria Railway station as a special case since inception at a nominal rate with the approval of DVC board. DVC has prayed before the Commission to allow the petitioner to continue supply of electricity at 415 volt level including lighting load at Railway stations with the overall average tariff of for the period 2009 – 2014.
- 2.3.16 DVC has submitted that a substantial amount of expenditure is scheduled to be incurred towards social integration programme and subsidiary activities in the discharge of its functions bestowed upon it in terms of the provisions under section 12 of the DVC Act on objects other than irrigation and flood control. It is submitted that this expenditure may kindly be allowed to be recovered through tariff of the generation and supply of electricity.
- 2.3.17 DVC has proposed a new formula for MVCA computation considering fuel cost adjustment formula stipulated by CERC for their own generating stations.
- 2.3.18 DVC has submitted that in the facts and circumstances mentioned above, the Commission may determine the distribution / retail supply tariff for the Damodar valley area falling in the State of West Bengal for period from 01.04.2009 to 31.03.2014 on the basis of tariff formats submitted by them and based on the input costs as per the present tariff order of CERC.



CHAPTER – 3 OBJECTIONS AND SUGGESTIONS

- 3.1 Suggestions, objections and comments on the tariff petition of DVC for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 have been received within the stipulated period of time from the persons as mentioned in paragraph 1.11 of Chapter – 1. The main points of the suggestions, objections, comments, etc. so received are summarized in the following paragraphs in this chapter. The views of the Commission on the relevant suggestions, objections, comments etc. are also recorded in this chapter.
- 3.2 West Bengal State Electricity Distribution Company Limited (WBSEDCL) has submitted that DVC as a distribution licensee operating in West Bengal for long time still restricted their power supply to HV and EHV consumers at 33 KV and above and DVC has no consumers below 33 KV in their area of operation. In view of such discriminatory operation of DVC, the consumers below 33 KV which includes more than one crore low and medium voltage (L&MV) consumers are being served by WBSEDCL. It is further submitted that in accordance with paragraph 5.5.2 of National Electricity Policy (in short “NEP”), almost 35 lakh life line consumers received special support in tariff which are cross subsidized. Further the tariff for irrigation consumers and other consumers of lower consumption slab are also kept below cost of supply on economic and social reasons and in such condition the consumers having high power consumption including all types of industries under WBSEDCL are charged higher tariff for subsidizing low tariff paying consumers. Moreover, DVC becomes a deemed licensee as per provision of section 14 of the Electricity Act, 2003 and DVC is duty bound to supply electricity to any consumers in accordance with section 43 of the Act. DVC cannot selectively supply power only to class of high voltage consumers who are supposed to be predominantly cross subsidizing group for the consumers in other part of the State under other licensee. It is further



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submitted by WBSEDCL that by virtue of supplying power to high voltage consumers only by DVC in their area, WBSEDCL is only left with L&MV consumers in the same area who require cross subsidy to some extent. There is distortion in tariff also due to lack of availability of level playing ground in the area served by DVC and WBSEDCL. The tariff of HV consumers of WBSEDCL is higher than the DVC's tariff. The overall tariff of other consumers (other than HV consumers) is relatively high in WBSEDCL area.

WBSEDCL submits before the Commission to pass appropriate order as below:

- a) To make DVC bound to supply power to all categories of consumers in West Bengal by building necessary distribution infrastructure where necessary.
- b) An element of cross-subsidy to be charged on DVC and pass the said cross-subsidy amount to WBSEDCL.

In the matter of (a) above, the Commission has already given necessary direction to DVC through an order dated 13.08.2014 and also in the tariff order dated 25.05.2015 for the years 2014 – 2015, 2015 – 2016 and 2016 – 2017 in case no. TP-57/13-14. The suggestion of WBSEDCL in (b) above is not considered by the Commission as the same is not tenable as per provisions of the Act. WBSEDCL can realize cross-subsidy surcharges in terms of Section 42 of the Act and as per the procedure laid down in WBERC (Open Access) Regulations, 2007 if a consumer in the licensed area of WBSEDCL but outside the licensed area of DVC draws power from DVC through open access.

- 3.3 Maithon Alloys Ltd. have stated that the claims made by DVC in their tariff application for the period from 2009 – 2010 to 2013 – 2014 are on wrong computation and relevant factors have not been considered in the computation /



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claims and if allowed would amount to rewarding the inefficiency of DVC. Maithon Alloys Ltd. have also given their item wise objections on different components of the ARR.

The item wise objections are dealt with separately in subsequent paragraph along with the item wise objections made by other objectors.

3.4 The submissions made by VSP Udyog Private Limited (VSPUPL) and Impex Ferro Tech Limited (IFL) are identical in nature and as such those are dealt as a whole. VSPUPL and IFL are collectively referred to as 'objectors'.

3.4.1 In their general objections the objectors have stated that the Commission lacks jurisdiction to entertain the tariff petition of DVC due to the following reasons:

a) DVC is not a distribution licensee by virtue of any license granted by the Commission. DVC is a deemed licensee as per provision of the Electricity Act, 2003 and cannot be regarded as a distribution licensee whose tariff can be determined by Jharkhand State Electricity Regulatory Commission or this Commission as it has got no feature of the distribution licensee within the scope and purview of the Act.

b) DVC has got no distribution net work within West Bengal making it capable to effect supply of electricity to all type of consumers including domestic supply. As per provision of Section 18 of the DVC Act, DVC is not permitted to sell electricity at less than 30,000 volts and thus the transmission net work of DVC does not satisfy the definition of Distribution System as given in Section 2(19) of the Electricity Act. DVC cannot also act strictly in terms of Section 43 of the Act. It is also stated that according to DVC they have no LT supply within West Bengal.



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- c) As already found by Hon'ble Appellate Tribunal of Electricity (APTEL) in its order dated 23.11.2007 in Appeal No. 273 of 2006, "all transmission system of DVC be considered as unified deemed interstate transmission system, in so far as the determination of tariff is concerned and as such regulatory power for the same may be exercised by the Central Commission". No part of tariff for objector in respect of supply received by them from DVC can be determined by this Commission U/s. 86 of the Electricity Act.
- d) The Central Commission under the provisions of Section 79(1)(b) of the Act is fully competent to determine all the tariff of DVC including tariff for bulk sale of electricity to the beneficiaries.
- e) Any order of either the Hon'ble APTEL or the Central Commission cannot override the provision of Section 79(1)(b) of the Electricity Act.
- f) The order dated 23.11.2007 of the Hon'ble APTEL makes it clear that the CERC is the appropriate Commission to determine the tariff of the petitioner.
- g) In the subsequent appeal there was no issue regarding the competent Commission for determining the retail tariff of DVC. In any event there is no order of the Hon'ble APTEL which directs the Commission to determine the retail tariff of DVC in respect of HT consumers of the state of West Bengal.
- h) In such circumstances question of determining any further tariff of DVC by the Commission for supply of electricity by DVC to the HT consumers / beneficiaries does not and cannot arise at all.
- i) In annexure C1 of the Tariff Regulations different classes of consumers have been mentioned, which include LV & MV consumers. In terms of the clause



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12.1 of Schedule – 5 of Tariff Regulations, licensee should consider different classes of consumers which must include the classes of consumers as provided in Annexure – C1. All the classes of consumers mentioned in Annexure – C1 are applicable for DVC but the fact remains that there are no such classes of consumers existing for DVC and therefore no retail tariff can be determined by this Commission and DVC cannot be regarded as a deemed distribution licensee.

- 3.4.2 The objectors have also stated that on the merit of the tariff petition also, the petition of DVC is not sustainable in law and no tariff can be made by on the basis of the application. The objector also stated the fact relating to tariff of DVC chronologically.
- 3.4.3 It is further stated by the objectors that no retail tariff of DVC has been determined by the Commission for the period for 2004-2010. The final tariff of generating stations and transmission system for the period from 2006-09 was determined by CERC long back. However, DVC had shown no endeavour for early determination of retail tariff by the Commission for the period from 2004-10. In absence of determination of tariff for the earlier period, question of determination of retail tariff for the period from 2011-12 to 2013-14 does not and cannot arise as the same shall be contrary to the tariff regulations framed by the Commission and also in violation of the Act.
- 3.4.4 The objectors have also stated that DVC was not interested for determination of its retail tariff through this Commission despite the fact of determination of their generation and transmission tariff for the period from 2006-09 and 2009-14 by the CERC, the only reason whereof is that they were charging much excess of what they could have actually claimed from the HT-consumers on the basis of tariff order dated 06.08.2009 of the CERC. Under no circumstances any retail



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tariff of DVC can be determined by the Commission for any period without the determination of tariff for the period for 2004 – 2009.

Commission's view on the objection raised at 3.4.1 (b) above is that the comment of the objectors is inconsistent with the Electricity Act, 2003 and for the purpose direction has already been issued by the Commission. Further the submission as at 3.4.3 above has no merit as per the Electricity Act, 2003. Other points raised above have no merit in view of the discussions in Chapter – 2

- 3.4.5 The objectors have also stated that even if it is assumed and admitted that the retail tariff of DVC is required to be determined by the Commission, then also all the claims as made by DVC in their tariff petition are not tenable. The item wise objections made by the objectors including other objectors are dealt separately in subsequent paragraphs.
- 3.5.1 Shree Ambey Ispat Pvt. Ltd. (SAIPL) have also made their suggestions / objections on general issue and also made item wise objection. In their general comments SAIPL have stated that the tariff application has been prepared by DVC based on the input cost as per final tariff order passed by CERC for respective generating stations, transmission and distribution network of DVC to file application for determination of retail tariff for the period 2009 – 2014 in compliance with the direction of CERC order dated 30.09.2013.
- 3.5.2 The item wise objections raised by SAIPL are dealt in paragraphs 3.8 in this chapter.
- 3.6. Nilkanth Ferro Limited (NFL) have made their suggestions / objections on general issues and have also made item wise objections. The item wise objections are dealt with separately in subsequent paragraphs. The general issues raised by NFL are described below:



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- a) The application submitted by DVC was not made in the prescribed format of the Commission and the data/information provided therein was inadequate. Subsequently, DVC submitted some additional data/information in the prescribed format in reply to the letters from the Commission's office from time to time.
- b) The determination of ARR and tariff for retail sale and/or distribution of electricity in respect of West Bengal portion of DVC may be made by the Commission considering the generation and inter-state transmission tariff of DVC determined by CERC as one of the various input cost. The ARR and retail tariff of DVC will have to be determined by the Commission following the same method, principle and regulatory provisions of other distribution licensees in West Bengal and in this respect DVC's stand on the same footing of the other distribution licensees. There cannot be any structural difference whatsoever in basic retail tariff including payment terms, rebate/penalty etc. among various distribution licensees in West Bengal including DVC. Any deviation from the above would tantamount to unequal treatment among equals.

The Commission will deal all the above issue in subsequent chapter of this order.

- 3.7. Suryya Alloys Industries Limited (SAIL) have submitted that the petition made by DVC is not in accordance with law. The law relating to tariff of DVC has been settled by CERC and Hon'ble Appellate Tribunal subject to pending appeals before the Hon'ble Supreme Court.

The legal issues have already been explained in chapter – 2 of this order. The issue wise submissions of SAIL are dealt with in subsequent paragraphs of this order.



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3.8. The item wise objections raised by different objectors are described below:

3.8.1 Input Cost:

The objections on the input cost are as follows:

- a) DVC is not entitled to claim anything against generating station. In terms of Appellate Tribunal order dated 23.11.2007 and 10.05.2010 only the generation and transmission tariff of DVC since determined by CERC can be taken as input cost for determination of retail tariff so far permissible under the Act and only for the consumers for whom the DVC is found to be a deemed distribution licensee and not any other cost. Under the Tariff Regulations of the Commission there cannot be any projected power purchase cost as allegedly claimed by DVC. The power purchase cost can only be based on the actual generation and transmission of the concerned generating company as already determined by the appropriate Commission.
- b) The generation and transmission & distribution tariff of DVC determined by CERC is to be considered as input cost for determination of retail tariff of DVC. Any generating station of DVC, tariff of which has not been determined by CERC, cannot be considered as input for determination of retail tariff of DVC. DVC has projected 12 numbers thermal generating stations and has sought to include the fixed cost and energy cost thereof in their ARR. The generation tariff of MTPS Stage – II (Unit VII and VIII), DSTPS Units No. I and II, RTPS and KTPS have not been determined by CERC and thus the generation and fixed cost and energy cost in respect of those generating stations should not be considered as input for determination of retail tariff of DVC. Those generating stations are not connected to CTU lines meant to cater the command area of DVC as evident from the different documents enclosed with the tariff application.



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- c) DVC has taken the total cost allowed by CERC for determination of retail tariff. DVC is entitled to recover the fixed cost proportionate to the availability in accordance with the CERC Tariff Regulations, 2009 and as also directed by the Hon'ble Appellate Tribunal for Electricity. Thus, the retail tariff should be determined after carrying out the prudence check on the availability of the plants which are used to supply power to the consumers in the command area of DVC.
- d) DVC has claimed the cost of infirm power of CTPS Units VII & VIII which should not be considered as the same are to be adjusted in capital cost as per the CERC Tariff Regulations, 2009.
- e) DVC's claim on differential amount of pension and gratuity fund and sinking fund contribution should not be considered as those are part of generation and transmission tariff and fall within the jurisdiction of CERC.
- f) DVC has claimed in their tariff application significant variation in the energy charges from the level approved by CERC in the tariff order for 2009 – 2014 for the respective generating station.

3.8.2 Falling share of command area supply from old station:

DVC earlier, used to cater supply of electricity to the command area only and surplus energy, if any, after meeting the demand in the command area was sold to other licensee. However, subsequently DVC has set up more generating stations and has tied up for supply of power to other State licensees and the share of sales to licensees outside the command area is increasing. In normal course any sale agreement with other licensee outside the command area should be through supply from the newly commissioned stations. But it is observed from the submission of DVC that the share of electricity supply to the command area consumers from old station has been arbitrarily reduced from 2011 – 2012 onwards without providing any rationale or justification in the petition. The share



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from old stations to the command area consumers cannot be reduced by DVC and replaced with costly sources.

3.8.3 Short term power purchase, UI and Renewable Power Purchase:

DVC has commissioned many new generating units in the recent years. Regardless to the spectacular capacity additions in the recent years, the short term power purchase quantum and net over drawal from grid is consistently growing up. The costly power purchase has imposed an unreasonable burden on the ARR to be claimed from the command area consumers. There is no reason why DVC should resort to short term power procurement when its capacity augmentation in the recent years has been nothing short of spectacular. Secondly, the projected power purchase price from renewable sources to meet the prescribed RPO obligation, the Commission should check tie up / agreement entered into by DVC with the renewable sources and the actual energy purchase in FY 2013 – 2014 as in the past years DVC had sought an allowance in this head, but has consistently failed to procure power to meet RPO obligations. It is also prayed to the Commission to disallow the Unscheduled Interchange (UI) charges and short term power purchase expenses incurred in the period upto 2012 – 2013 and any charges which DVC incurred in FY 2013 – 2014 are also sought to be disallowed.

3.8.4 T&D Loss:

DVC has submitted that its T&D activities is composite and integrated in nature owing to its deemed unified and integrated nature of T&D network and peculiar geographical position and claimed the T&D loss higher than the loss trajectory as specified for DVC in the WBERC Tariff Regulations, 2007 and WBERC Tariff Regulations, 2011. The tariff for DVC has to be determined by the loss level trajectory prescribed by WBERC. Consideration of the loss level trajectory



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prescribed in the WBERC Regulations would necessitate disallowance of the costly short-term power procurement considering the merit order dispatch principle.

3.8.5 Interest on Working Capital:

The interest on working capital claimed by DVC is sought to be disallowed as a consequence of the disallowance of the power purchase expenses.

3.8.6 Non Tariff Income:

As per available audited annual accounts of DVC upto 2011 – 2012 the actual incomes earned by DVC are far in excess of what has been applied for reduction in the ARR. The non-tariff income as per actual trend may be considered by the Commission.

3.8.7 Revenue Gap / (Surplus):

There is a huge revenue surplus upto 31.03.2013. The actual revenue realized in FY 2013 – 2014 is not correctly submitted by DVC. The huge revenue surplus should immediately be shared with the consumers along with carrying cost by way of reduction in tariff.

3.8.8 Non-payment of Bill:

The claim of DVC in paragraph 14 of their tariff petition recovery of their alleged dues arising out of non-payment by some consumers either on account of disputed bill, closure, reference to BIFR etc. should be rejected in its entirety as being contrary to the provisions of the Act. DVC being a deemed licensee is only entitled to recover their bad debt by instituting appropriate recovery proceeding against the defaulting consumer as also provided by the Commission by Electricity Supply Code and to the extent permissible under such provision of regulation and not otherwise. Regulation 3.11 of the Tariff Regulation does not permit any claim even for its remotest meaning.



3.8.9 Social Integration Programme:

DVC's claims for their alleged social integration programme & subsidiary activities in the present tariff petition have also got no merit. Such claims had been considered by CERC and Appellate Tribunal allowed in the generation costs to the extent permissible. Those costs being found to be generation costs component cannot be claimed again as part of retail tariff.

3.8.10 R&M Expenses:

The renovation and maintenance costs are generation and transmission costs components and already taken into consideration by CERC while determining the generation and transmission tariff of DVC. No costs on account of Renovation and Modernization (R&M) activities that too on projected basis can be included in the retail tariff of DVC. Furthermore, Hon'ble APTEL has already held that R&M costs cannot be allowed until and unless the works therefor have been put to use and the benefit thereon has been passed on to the consumers.

3.8.11 Monthly Variable Cost Adjustment (MVCA):

DVC is entitled for monthly Variable Cost Adjustment (MVCA) in line with Regulation 2.8.7.1 and 2.8.7.3 only to the extent as the provisos of the said Regulations provide and that too for its power purchase cost and for their LT supply. DVC has already been allowed variable cost in the form of Fuel Costs Adjustment by the CERC as part of their generation tariff.

3.8.12 Income from Export of Power:

Although DVC claimed for inclusion of their power purchase costs for determination of their retail tariff but they did not disclose their income from export/ sale of power to other distribution licensees and generating companies.



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Undisputedly DVC sells electricity to other distribution licensees and power traders and export power outside the Damodar Valley Area and therefore the income from such activity shall be adjusted against their gross revenue requirement in calculating their annual revenue requirement for determination of retail tariff. In the absence of such disclosure the tariff petition cannot be entertained by the Commission.

3.8.13 Two Part Tariff:

Realization of single part tariff from HT and EHT consumers does not give any recognition towards load factor and power factor of individual consumer. Continuance of single part tariff structure of HT & EHT consumer even after determination of ARR by the Commission will be totally unjustifiable, discriminatory, inefficiency promoter, harsh on consumer maintaining very high level of load and power factor inconsistent with basic philosophy / idea of NTP and unprecedented.

- 3.9 *The Commission has taken note of the above item wise objections, suggestions and comments. Some of the objections, suggestions and comments which are directly concerned with the instant Tariff petition have been dealt with in the subsequent chapter of this tariff order, in which various components of fixed costs have been analyzed and discussed. Some of the objections, suggestions and comments related to law point in regard to authority of WBERC for determination of tariff for DVC has already been dealt with in some of the preceding paragraphs in this Chapter and also in Chapter – 2 of this order. The point raised in para 3.8.12 is a matter to be dealt with in the APR of the respective year.*



CHAPTER – 4 SALES, ENERGY BALANCE AND AGGREGATE REVENUE REQUIREMENT

- 4.1 In this chapter the projection of various cost components of the Aggregate Revenue Requirement (ARR) for the period 2009 – 2010 to 2013 – 2014 as submitted by DVC has been analyzed.
- 4.2 DVC, the petitioner is a statutory body incorporated under the Damodar Valley Corporation Act, 1948 and undertakes multifarious functions, viz. generation, transmission and distribution. It has got different power stations consisting of both the thermal and hydel power stations. With a substantial portion of its energy requirement met out of its own generation resources and the balance met out by the purchased power from other organizations, it caters retail sale and supply of electricity under the provisions of Section 62 (d) read in conjunction with Section 86 (1) of the Electricity Act, 2003 to the consumers in Damodar Valley area comprising of both the States of West Bengal and Jharkhand. DVC has submitted that the sales data for the years 2009 – 2010 and 2010 – 2011 are based on actual basis and the sales data for the years 2011 – 2012, 2012 – 2013 and 2013 – 2014 are prepared based on available data in September, 2011. The proper assessment of the sales during the FY 2009-10, 2010-11, 2011-12, 2012-13 and 2013-14, for which the tariff is to be determined is of prime importance. The Commission is, therefore, taking up the different parameters linked with sales projection of DVC and thereafter different components of the ARR and tariff of DVC for the aforesaid period.
- 4.3 **Consumers, connected load and energy sales:**
- 4.3.1 Sales Projection:

The petitioner has submitted the particulars of consumer details for different years in the years 2009-10, 2010-11, 2011-12, and 2012-13 and corresponding sales in their



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command area in West Bengal. This has been necessitated in order to facilitate keeping an eye at the projected sales of DVC as submitted in their petition for the subject period viz. 2009-10 to 2013-14. The petitioner has submitted that it supplies bulk of its power to the WBSEDCL and JSEB and majority of HT consumers falling in DVC area generally at 33 KV and above voltage level. The petitioner has further submitted that keeping an eye on the past growth rate of sales, new power application status and the probable additions during the foregoing years, it has made the projections for the number of consumers at the respective connected load and the sales forecast in the command area of DVC in West Bengal in different years of the subject period which are represented in a tabular form below:

Number of consumers and sales in MU for the period 2009 – 2010 to 2013 – 2014 in the command area of DVC in West Bengal:

Particulars	FY 2009-10		FY 2010-11		FY 2011-12		FY 2012-13		FY 2013-14	
	No of cons. ('000)	Sales (MU)	No of Cons. ('000)	Sales (MU)	No of cons. ('000)	Sales (MU)	No of Cons. ('000)	Sales (MU)	No of Cons. ('000)	Sales (MU)
LV & MV		0.11		0.11		0.10		0.001		0.001
33 KV	103	4666.39	107	4691.84	116	4931.63	123	5373.61	142	6268.90
132 KV (RAIL)	03	175.80	03	187.85	03	193.66	03	202.53	03	213.00
132 KV (Industrial)	05	583.20	07	657.91	08	829.00	09	946.52	10	1016.00
220 KV	01	352.94	1	289.73	02	264.57	02	359.72	2	468.00
Total	112	5778.44	118	5827.44	129	6218.96	137	6882.38	157	7965.90

4.3.2 The following table depicts the sales (MU) as made by the petitioner for the command area of DVC in West Bengal for the period FY 2009-10 to 2012-13 and projection of sale for FY 2013-14:



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Sales for the control period in the command area of DVC in West Bengal vis-à-vis total sale in DVC command area.

Particulars	FY 2009-10 (Actual MU)	FY 2010-11 (Actual MU)	FY 2011-12 (Actual MU)	FY 2012-13 (Actual MU)	FY 2013-14 (Projected MU)
LV & MV	0.11	0.11	0.10	0.00	0.00
Overall LV&MV	0.11	0.11	0.10	0.00	0.00
33 KV	4666.39	4691.84	4931.63	5373.61	6268.90
132 KV (RAIL)	175.80	187.85	193.66	202.53	213.00
132 KV (Industrial)	583.20	657.91	829.00	946.52	1016.00
220 KV	352.94	289.73	264.57	359.72	468.00
Overall HV & EHV	5778.33	5827.33	6218.86	6882.38	7965.90
Total annual sale in W.B. Area	5778.44	5827.44	6218.96	6882.38	7965.90
Energy sales by DVC in Jharkhand area	8094.01	8549.47	8899.12	9096.67	10734.10
Total annual sale of DVC in their command area in the State of West Bengal and Jharkhand	13872.45	14376.91	15118.08	15979.05	18700.00
Share of sale in West Bengal against the total consumer sale of DVC in their command area (%)	41.654	40.533	41.136	43.071	42.598

4.3.3 The petitioner has submitted that the projected sales during the subject period of FY 2009-10 to 2013-14 for different category of consumers commensurate with their respective Power Factor and Load Factor along with apportionment between Time of the Day (TOD) and Non-TOD are considered in line with the load pattern as available till September, 2011.

4.3.4 The projected sale of energy in the command area of DVC in West Bengal under the control period as submitted by the petitioner is considered by the Commission.

4.3.5 In this context it may be pointed out that the Commission does not make any approval of sale in command area in Jharkhand. The Commission only considers such sale as projected by DVC to arrive at the total sale of DVC for the purpose of apportionment of cost under different heads.

4.3.6 Besides, DVC has projected considerable quantum of energy to the tune of 138 MU, 117 MU, 111 MU, 112 MU and 130 MU for consumption in the own premises of DVC



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including construction power and energy wheeled to the tune of 304 MU, 276 MU, 347 MU, 199 MU and 330 MU for the respective five years of 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 - 2014 in their total command area covering both the States of West Bengal and Jharkhand. The Commission considers proportionate quantum of such projection.

4.3.7 Total energy utilization in West Bengal as admitted by the Commission is as follows:

Particulars	Unit	As admitted by Commission				
		2009-10	2010-11	2011-12	2012-13	2013-14
Energy sale in West Bengal area	MU	5778.44	5827.44	6218.96	6882.38	7965.90
Energy Sales within DVC Area	MU	13872.45	14376.91	15118.08	15979.05	18700.00
Energy Wheeled	MU	304.00	276.00	347.00	199.00	330.00
Units utilized in own premises including Construction Power	MU	138.00	117.00	111.00	112.00	130.00
Overall Utilization	MU	14314.45	14769.91	15576.08	16290.05	19160.00
Proportionate utilization in West Bengal	MU	5962.55	5986.74	6407.36	7016.33	8161.85

4.4 Sources of Energy:

4.4.1 The petitioner has submitted that the total energy of supply of the petitioner to their command areas in West Bengal and Jharkhand and to other distribution licensees are met from the resources of power from its own generating stations including both Thermal and Hydel Power Stations and through purchase of power from central sector generating stations (CSGS) viz., NTPC, NHPC etc. and from Renewable Energy Sources through Inter State Transmission.

4.4.2 Generation of Power from own power stations:

4.4.2.1 The quantum of ex-bus energy in MU, as given by the petitioner during the period, is summarized below:



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**Ex-bus Generation from own generating stations
during the period**

Sl. No.	Name of generating stations	Ex-bus Energy (MU)				
		FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
1	BTPS (Unit 1 to 3)-630 MW	3139.84	3039.88	2964.44	2759.18	3389.60
2	MTPS U# 1 to 3 -630 MW	2782.90	3741.57	3365.22	2142.44	3240.16
3	CTPS U # I to III-390 MW	1946.93	2332.73	1943.69	1767.40	1984.40
4	DTPS U# 3 & 4-350 MW	1823.04	1337.60	1745.39	1834.35	1964.60
5	MTPS U # 4-210 MW	1302.08	1267.66	1175.72	1179.78	1144.88
6	MTPS U # 5 & 6-500 MW	1974.49	2800.78	3280.97	3179.36	3174.09
7	MTPS (NEW)-U#7&8-1000 MW	0.00	0.00	1244.35	4750.37	6580.30
8	MTPS (NEW)-U#7&8-1000 MW – INFIRM POWER	0.00	81.65	58.08	284.17	0.00
9	CTPS (NEW)-U#7&8-500 MW-IMFIRM POWER	137.25	189.54	308.84	0.00	0.00
10	CTPS (NEW)-U#7&8-500 MW	0.00	0.00	1327.72	3251.53	3359.78
11	KTPS (NEW)-U# 1&2 AND DSTPS (NEW) – U # 1&2 – INFIRM POWER	0.00	0.00	6.40	281.26	0.00
12	KTPS U#1&2-1000 MW	0.00	0.00	0.00	0.00	2417.14
13	DSTPS (NEW) – U # 1&2 – 1000 MW	0.00	0.00	0.00	2241.12	4968.62
14	RTPS U # 1&2 – 1000 MW – INFIRM POWER	0.00	0.00	0.00	0.00	4.30
15	MHS U # 1, 2, 3 - 63.2 MW	102.38	59.47	121.85	88.54	103.13
16	PHS U #1& 2- 80 MW	84.50	54.27	172.83	109.34	142.95
17	THS- U # 1 & 2 -4 MW	9.62	0.46	6.50	4.04	3.92
18	Total	13303.03	14905.61	17722.00	23872.88	32477.87

4.4.2.2 The petitioner has projected ex-bus generation from its old generating stations installed both in the States of West Bengal and Jharkhand operating since long comprising of both thermal and small hydel power stations and new generating stations commissioned in recent past and also the generating stations to be installed within 2013 – 2014. The petitioner has also mentioned the percentage of ex-bus generation from the old generating stations to be available for their consumers after meeting the requirement of energy to be sold to other licensees in their command areas viz. JSEB and WBSEDCL as per bilateral agreement. The petitioner has also



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mentioned the percentage of ex-bus generation from new generating stations to be available for their consumers after meeting the requirement of energy to be sold to other licensees outside their command area as per bilateral agreement. The ex-bus generation from own generating stations to be available for sale to consumers of DVC apportioned as per percentage of share projected by the petitioner for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 have been admitted by the Commission.

4.4.2.3 From the above projected ex-bus generation, the net sent out energy in MU available for supply to the consumers in command area in West Bengal in different years under the period has been considered by the Commission as follows:

Admitted share of net generation from own generating stations for supply in command area in West Bengal for FY 2009-10

Sl. No	Name of the generating Station	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal (%)	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
1	BTPS (Unit 1 to 3)-630 MW	3139.84	100.00	3139.84	41.654	1307.87
2	MTPS U# 1 to 3 -630 MW	2782.90	100.00	2782.90	41.654	1159.19
3	CTPS U # I to III-390 MW	1946.93	100.00	1946.93	41.654	810.97
4	DTPS U# 3 & 4-350 MW	1823.04	100.00	1823.04	41.654	759.37
5	MTPS U # 4-210 MW	1302.08	100.00	1302.08	41.654	542.37
6	MTPS U # 5 & 6-500 MW	1974.49	41.55	820.40	41.654	341.73
7	CTPS (NEW)-U#7&8 IMFIRM POWER	137.25	100.00	137.25	41.654	57.17
8	MHS U # 1, 2, 3 - 63.2 MW	102.38	100.00	102.38	41.654	42.65
9	PHS U #1& 2- 80 MW	84.50	100.00	84.50	41.654	35.20
10	THS- U # 1 & 2 -4 MW	9.62	100.00	9.62	41.654	4.01
	Total	13303.03		12148.94		5060.53



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Admitted share of net generation from own generating stations for supply in command area in West Bengal for FY 2010-11

Sl. No	Name of the generating Stations	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal %	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
1	BTPS (Unit 1 to 3)-630 MW	3039.88	100.00	3039.88	40.533	1232.15
2	MTPS U# 1 to 3 -630 MW	3741.57	100.00	3741.57	40.533	1516.57
3	CTPS U # I to III-390 MW	2332.73	100.00	2332.73	40.533	945.53
4	DTPS U# 3 & 4-350 MW	1337.60	100.00	1337.60	40.533	542.17
5	MTPS U # 4-210 MW	1267.66	100.00	1267.66	40.533	513.82
6	MTPS U # 5 & 6-500 MW	2800.78	17.17	480.89	40.533	194.92
7	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	81.65	100.00	81.65	40.533	33.10
8	CTPS (NEW)-U#7&8-INFIRM POWER	189.54	100.00	189.54	40.533	76.83
9	MHS U # 1, 2, 3 - 63.2 MW	59.47	100.00	59.47	40.533	24.10
10	PHS U #1& 2- 80 MW	54.27	100.00	54.27	40.533	22.00
11	THS- U # 1 & 2 -4 MW	0.46	100.00	0.46	40.533	0.19
	Total	14905.61		12585.72		5101.38

Admitted share of net generation from own generating stations for supply in command area in West Bengal for FY 2011-12

Sl. No	Name of the generating Station	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal %	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
1	BTPS (Unit 1 to 3)-630 MW	2964.44	88.81	2632.72	41.136	1083.00
2	MTPS U# 1 to 3 -630 MW	3365.22	88.81	2988.65	41.136	1229.41
3	CTPS U # I to III-390 MW	1943.69	88.81	1726.19	41.136	710.09
4	DTPS U# 3 & 4-350 MW	1745.39	88.81	1550.08	41.136	637.64
5	MTPS U # 4-210 MW	1175.72	88.81	1044.16	41.136	429.53
6	MTPS U # 5 & 6-500 MW	3280.97	58.48	1918.71	41.136	789.28
7	MTPS (NEW)- U#7 & 8-1000 MW	1244.35	96.22	1197.31	41.136	492.53
8	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	58.08	100.00	58.08	41.136	23.89
9	CTPS (NEW)-U#7&8 -INFIRM POWER	308.84	100.00	308.84	41.136	127.04
10	CTPS (NEW)-U#7&8-500 MW	1327.72	40.86	542.51	41.136	223.17



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Sl. No	Name of the generating Station	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal (%)	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
11	KTPS (NEW)-U#1&2 and DSTPS (NEW) U #1& 2 - INFIRM POWER	6.40	100.00	6.40	41.136	2.63
12	MHS U # 1, 2, 3 - 63.2 MW	121.85	100.00	121.85	41.136	50.12
13	PHS U #1& 2- 80 MW	172.83	100.00	172.83	41.136	71.10
14	THS- U # 1 & 2 -4 MW	6.50	100.00	6.50	41.136	2.67
	Total	17722.00		14274.83		5872.10

Admitted share of net generation from own generating stations for supply in command area in West Bengal for FY 2012-13

Sl. No	Name of the generating Station	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal (%)	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
1	BTPS (Unit 1 to 3)-630 MW	2759.18	90.71	2502.85	43.071	1078.00
2	MTPS U# 1 to 3 -630 MW	2142.44	88.04	1886.20	43.071	812.41
3	CTPS U # I to III-390 MW	1767.40	91.02	1608.69	43.071	692.88
4	DTPS U# 3 & 4-350 MW	1834.35	92.24	1692.00	43.071	728.76
5	MTPS U # 4-210 MW	1179.78	92.76	1094.36	43.071	471.35
6	MTPS U # 5 & 6-500 MW	3179.36	32.76	1041.56	43.071	448.61
7	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	284.17	43.99	125.01	43.071	53.84
8	MTPS (NEW)- U#7 & 8-1000 MW	4750.37	43.99	2089.69	43.071	900.05
9	CTPS (NEW)-U#7&8-500 MW	3251.53	0.00	0.00	43.071	0.00
10	KTPS (NEW)-U#1&2-1000 MW-INFIRM POWER	45.93	67.82	31.15	43.071	13.42
11	DSTPS(NEW)-U#1&2-1000 MW-INFIRM POWER	235.33	67.82	159.60	43.071	68.74
12	DSTPS(NEW)-U#1&2-1000 MW	2241.12	67.82	1519.93	43.071	654.65
13	MHS U # 1, 2, 3 - 63.2 MW	88.54	100.00	88.54	43.071	38.14
14	PHS U #1& 2- 80 MW	109.34	100.00	109.34	43.071	47.09
15	THS- U # 1 & 2 -4 MW	4.04	100.00	4.04	43.071	1.74
	Total	23872.88		13952.96		6009.68



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Admitted share of net generation from own generating stations for supply in command area in West Bengal for FY 2013-14

Sl. No	Name of the generating Station	Ex- bus Energy (MU)	Percentage share of generation for own consumers (%)	Share of Energy for sale to consumers of DVC (MU)	Share for sale to consumers in West Bengal (%)	Share of Energy for sale to consumers in West Bengal (MU)
(1)	(2)	(3)	(4)	[(5)= (3) x (4)/100]	(6)	[(7) =(5)x(6)/100]
1	BTPS (Unit I to III)-630 MW	3389.60	93.07	3154.70	42.598	1343.84
2	MTPS U# I to III -630 MW	3240.16	92.75	3005.25	42.598	1280.18
3	CTPS U # I to III-390 MW	1984.40	92.68	1839.14	42.598	783.44
4	DTPS U# III & IV-350 MW	1964.60	93.36	1834.15	42.598	781.31
5	MTPS U # IV-210 MW	1144.88	93.16	1066.57	42.598	454.34
6	MTPS U # 5 & 6-500 MW	3174.09	29.93	950.01	42.598	404.68
7	CTPS (NEW)-U#7&8-500 MW	3359.78	0.00	0.00	42.598	0.00
8	MTPS U 7 & 8 -1000 MW	6580.30	27.16	1787.21	42.598	761.32
9	KTPS U I & II - 1000 MW	2417.14	70.98	1715.69	42.598	730.85
10	DSTPS U I & II NEW -1000 MW	4968.62	21.12	1049.37	42.598	447.01
11	RTPS U# I & II-1000 MW	4.30	46.51	2.00	42.598	0.85
12	MHS U # I,II,III-63.2 MW	103.13	78.04	80.48	42.598	34.28
13	PHS U I & II-80 MW	142.95	78.04	111.56	42.598	47.52
14	THS-4 MW	3.92	78.04	3.06	42.598	1.30
	Total	32477.87		16599.18		7070.92

4.4.3 Power Purchase from CSGS and renewable energy sources:

4.4.3.1 After meeting the energy requirement as earmarked above from own generating stations of DVC for supply to consumers in the West Bengal command area, the balance projected energy needs to be catered through the power purchase from the CSGS and other sources including renewable energy during the period of FY 2009-10 to FY 2013-14. The philosophy as has been adhered to by the Commission for admission is that the energy projected for purchase by the petitioner from different sources other than renewable sources has been apportioned for the balance requirement of energy for sale to consumers in West Bengal in the ratio of projected sale of energy in West Bengal area to the total projected sale of DVC during the respective years. Any excess purchase in this process is excluded on merit order basis.



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4.4.3.2 The quantity of purchase of renewable energy as projected by DVC during the period 2009-10 to 2013-14 has been considered by the Commission.

4.4.3.3 The purchase quantum of energy as admitted by the Commission during the period is tabulated below:

Agency	2009 – 2010			2010 – 2011			2011 – 2012			2012 – 2013			2013 – 2014		
	Purchased Energy	CTU Grid loss	Net purchase	Purchased Energy	CTU Grid loss	Net purchase	Purchased Energy	CTU Grid loss	Net purchase	Purchased Energy	CTU Grid loss	Net purchase	Purchased Energy	CTU Grid loss	Net purchase
	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU	MU
NTPC Ltd															
Farakka (FSTPS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	221.38	6.06	215.32	228.62	6.17	222.45
Talcher (TSTPS)	21.98	0.63	21.35	21.59	0.59	21.00	20.58	0.34	20.24	20.78	0.54	20.24	18.35	0.50	17.85
Nabinagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.18	0.46	16.72
PTC India Ltd.															
a) Chukha HEP	189.65	5.82	183.83	190.71	5.24	185.47	177.76	2.84	174.92	161.41	4.69	156.72	160.00	4.32	155.68
b) Kuruchhu HEP	91.56	2.82	88.74	85.86	2.36	83.50	77.05	1.34	75.71	67.85	1.97	65.88	160.00	4.32	155.68
c) Tala HEP	184.44	5.82	178.62	198.16	5.45	192.71	188.73	2.94	185.79	171.74	4.98	166.76	80.00	2.16	77.84
NHPC Ltd.															
a) Rangeet HEP	32.13	0.97	31.16	34.04	0.94	33.10	34.12	0.55	33.57	32.05	0.77	31.28	33.60	0.91	32.69
b) Teesta HEP	222.36	6.73	215.63	223.97	6.16	217.81	218.3	3.70	214.60	193.02	5.75	187.27	198.45	5.36	193.09
WBSEDCL	9.54	0.27	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maithon Power Ltd	0.00	0.00	0.00	0.00	0.00	0.00	543.14	7.71	535.43	1505.03	42.60	1462.43	1318.36	45.12	1273.24
Power Exchange	0.00	0.00	0.00	0.00	0.00	0.00	23.32	0.00	23.32	0.00	0.00	0.00	0.00	0.00	0.00
Renewable Power-Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.00		
Renewable Power-Non Solar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	403.10	13.37	481.73
Total	751.66	23.06	728.60	754.33	20.74	733.59	1283.00	19.42	1263.58	2373.26	67.36	2305.90	2709.66	82.69	2626.97
Percentage of share for sale in West Bengal			41.654			40.533			41.136			43.071			42.598
Share for sale in West Bengal			303.49			297.35			519.79			993.18			1119.05

4.4.3.4 DVC has stated that due to acute shortage of power, DVC had to draw power under Unscheduled Interchange (UI) made from the system to avoid load shedding to the core sector viz., Railway, Steel and Coal during the years 2009 – 2010 to 2012 – 2013. The reasons for acute shortage of power as stated by DVC are – i) frequent forced outage of some vintage generating stations and also of new units, ii) forced



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outage of units due to shortage of coal, iii) increase in system demand in the valley area, etc. The Commission considers the UI drawal for the short fall quantum after considering the proportionate sent out energy from the own generating stations and the proportionate energy from power purchase.

4.4.4 Distribution Loss:

The Commission has allowed the distribution loss as per the norms specified in the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2007 and West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 for the respective year against the proportionate utilization of energy by the petitioner in their command area in West Bengal. Accordingly, the distribution loss, as admitted by the Commission, provisionally, is shown in the following table year wise.

Distribution Loss			
Year	Proportionate utilization (MU) of energy in W.B. area	Normative distribution loss %	Distribution Loss (MU), as admitted
2009 – 2010	5962.55	2.60	159.17
2010 – 2011	5986.74	2.50	153.50
2011 – 2012	6407.36	2.40	157.56
2012 – 2013	7016.33	2.30	165.18
2013 – 2014	8161.85	2.20	183.60

4.4.5 Energy Balance:

4.4.5.1 On the basis of the analysis done in the foregoing paragraphs, the Commission admits the energy balance for supply to their command area in West Bengal for the



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years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 as below:

(Figures in Million Units)

Particulars	Unit	As admitted by Commission				
		2009-10	2010-11	2011-12	2012-13	2013-14
Energy Sales within West Bengal	MU	5778.44	5827.44	6218.96	6882.38	7965.90
LT Sales	MU	0.11	0.11	0.10	0.00	0.00
HT Sales	MU	5778.33	5827.33	6218.86	6882.38	7965.90
Total Sales within West Bengal	MU	5778.44	5827.44	6218.96	6882.38	7965.90
Energy Sales within Jharkhand	MU	8094.01	8549.47	8899.12	9096.67	10734.10
Total Energy Sales within DVC Area	MU	13872.45	14376.91	15118.08	15979.05	18700.00
Energy Wheeled	MU	304.00	276.00	347.00	199.00	330.00
Units utilized in own premises including Construction Power	MU	138.00	117.00	111.00	112.00	130.00
Overall Utilization	MU	14314.45	14769.91	15576.08	16290.05	19160.00
Proportionate utilization in West Bengal	MU	5962.55	5986.74	6407.36	7016.33	8161.85
T & D Loss (%) for West Bengal		2.60	2.50	2.40	2.30	2.20
T & D Loss (MU)	MU	159.17	153.50	157.56	165.18	183.60
Energy Requirement for DVC for distribution business in West Bengal	MU	6121.72	6140.24	6564.92	7181.51	8345.45
Total Energy receipt for Wheeling	MU	350.00	284.00	397.00	242.00	365.00
Proportionate Energy receipt for Wheeling for distribution business in West Bengal	MU	145.79	115.11	163.31	104.23	155.48
Energy requirement for DVC for distribution business in West Bengal from generation and power purchase	MU	5975.93	6025.13	6401.61	7077.28	8189.97
Proportionate Generation available for sale within West Bengal	MU	5060.53	5101.38	5872.10	6009.68	7070.92
Proportionate Purchase for sale in West Bengal	MU	303.49	297.35	519.79	993.18	1119.05
Admissible energy drawal through UI	MU	611.91	626.40	9.72	74.42	0.00
Share of energy requirement in West Bengal against the total requirement of DVC	%	41.654%	40.533%	41.136%	43.071%	42.598%

4.5 Cost arising from own generation:

4.5.1 DVC being a statutory body controlled by the Central Government as envisaged under Section 79(1)(a) of the Electricity Act, 2003, the tariff for generation of electricity is to be decided by the Central Electricity Regulatory Commission. Similarly, in view of its activities in respect of transmission and distribution of power extending in multi states, the inter-state transmission and distribution being an



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integrated activity, DVC will again be regulated by the Central Electricity Regulatory Commission and tariff for composite T & D is to be determined by the Central Commission in terms of Section 79(1)(c) and (d) of the Electricity Act, 2003. In regard to retail sale and supply of electricity, however, DVC will be governed by the provisions of Section 62 read in conjunction with Section 86(1) of the Electricity Act, 2003 by the respective State Commissions in the States of West Bengal and Jharkhand.

- 4.5.2 Accordingly, the generation and transmission tariff of DVC, as determined / to be determined by the Central Commission, will be an input cost based on which the retail tariff has to be considered.
- 4.5.3 From the petition submitted, it is observed that the Tariff Orders of CERC leading to determination of the Fixed Cost and Energy Charges of different power stations of DVC and the transmission tariff for integrated transmission and distribution system of DVC were conveyed through the CERC orders dated below:

Sl. No.	Particulars	Date of issue of orders by CERC
1.	Meija Thermal Power Station, U# I to III	9 th July 2013
2.	Meija Thermal Power Station, U# IV	9 th July, 2013
3.	Bokaro Thermal Power Station, U# I to III	29 th July 2013
4.	Chandrapura Thermal Power Station, U# I to III	7 th August 2013
5.	Durgapur Thermal Power Station, U# III & IV	7 th August 2013
6.	Maithon Hydel Power Station	7 th August 2013
7.	Panchet Hydel Power Station	7 th August 2013
8.	Tilaiya Hydel Power Station	7 th August 2013
9	Transmission and Distribution system activities of DVC	27 th September 2013

In terms of order dated 30.09.2013 of CERC, the tariff recovered by DVC for their own generating stations and for integrated transmission and distribution system shall be as per the above orders during the period 2009 – 2014.



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- 4.5.4 The Commission considers the Annual Fixed Charge (AFC) for the power stations for which tariff has been determined by CERC for the FY 2009 – 2010, FY 2010 – 2011, FY 2011 – 2012, FY 2012 – 2013 and FY 2013 – 2014 as per the tariffs determined by the CERC for the respective years. The allowable Fixed Cost has been computed taking the plant availability factor as submitted by the Petitioner for the relevant years with the corresponding normative values.
- 4.5.5 DVC has submitted the energy charge rate (ECR) for the years 2009 – 2010 to 2013 – 2014 for their generating stations as per the respective CERC's orders mentioned above and based on the financial model submitted in their application to account for the escalation in fuel price during the respective years. The Commission considers the energy charge as projected by DVC for the years 2009 – 2010, 2010 – 2011, 2011 – 2012 and 2012 – 2013. The Commission observes that as per yearly wholesale price index brought to light by the office of the Economic Affairs, GOI, there has been a decline in the prices of coal (reflecting an Index of 190.78 for 2013 – 2014 in comparison to 208.58 in 2012 – 2013) and non-coking coal (showing an Index of 176.66 for 2013 – 2014 in comparison to 217.03 in 2012 – 2013). The Commission also observes from the notification on Annual Escalation Rates applicable for the period between 01.04.2013 and 30.09.2013 for the purpose of payment as per competitive bidding guidelines vide no. Eco-1/2013-CERC dated April 1, 2013 issued by the Central Electricity Regulatory Commission (CERC), escalation rate for domestic coal is 0.00% and for imported coal is (-) 15.12%. The Commission also observes from the notification on Annual Escalation Rates applicable for the period between 01.10.2013 and 31.03.2014 for the purpose of payment as per competitive bidding guidelines vide no. Eco-2/2013-CERC dated October 7, 2013 issued by the Central Electricity Regulatory Commission (CERC), escalation rate for domestic coal is (-) 28.22% and for imported coal is (-) 16.53%. Hence, as per discretion of the Commission, it is not prudent to consider hike in ECR of the power station of DVC for the year 2013 – 2014.



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- 4.5.6 Apart from the above, the Commission has considered the annual Fixed Cost, Energy Charge as submitted by the Petitioner to the CERC for the new generating stations for which the relevant Tariff Orders were not approved by CERC at the time of submission of the application following the observations stated in paragraph 4.5.5 above. The Commission has considered the energy charge rates only for infirm power from new generating stations as per the projected 1st year ECR of respective generating station.
- 4.5.7 The station wise fixed charge, energy charge of different power stations of DVC in different years of the control period on the basis of projected availability and percentage utilization by the consumers in command area of West Bengal are summarized in Annexures 4A, 4B, 4C, 4D and 4E. In this connection, the Commission likes to reiterate that balance energy requirement to be obtained from the projected purchase quantum calculated on the basis of sales ratio of West Bengal to the total sales of DVC in their command area in West Bengal and Jharkhand and cost thereof will be considered by the Commission on the basis of merit order in subsequent paragraph.
- 4.5.8 The cost of generation for own generating stations in this order is subject to truing up in future on the basis of subsequent orders of CERC..
- 4.6 **Purchase cost from CSGS and Renewable Sources for sale to consumers in the command area in West Bengal:**
- 4.6.1 The Commission has considered the power purchase rates as per submission of the petitioner for the FY 2009 – 2010 to FY 2013 – 2014 consisting of Fixed Charge, Energy Charge for all the five years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014.
- 4.6.2 The Commission also considers the cost of UI drawal during the period 2009 – 2010 to 2012 – 2013 at average rate of UI drawal during the year on the admitted quantum of UI drawal in the energy balance.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

4.6.3 The power purchase cost from CSGS, Renewable Sources and cost of UI drawal, as admitted by the Commission for sale to consumers of DVC in the command area in West Bengal, subject to truing up in APR for the respective year are summarized in Annexures 4F, 4G, 4H, 4I and 4J.

4.7 Interest on Working Capital for Power Purchase:

DVC has claimed interest on working capital on power purchase cost for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 at Rs. 690.21 lakh, Rs. 512.36 lakh, Rs. 668.86 lakh, Rs. 1045.18 lakh and Rs. 1522.00 lakh respectively. In terms of regulations 5.6.5.1 of the Tariff Regulations, as amended, working capital requirement shall be assessed on normative basis @ 18% on the base amount derived by summation of annual fixed charges and fuel and power purchase cost reduced by the elements determined, viz. depreciation, deferred revenue expenditure, return on equity, etc. It is also provided in the said regulation that where Monthly Variable Cost Adjustment (MVCA) exists the interest on working capital requirement will be 10% instead of 18%. Since interest on working capital on fuel cost and other fixed cost elements viz. interest on loan, O & M expenses including employee cost, Pension & Gratuity contribution, Sinking Fund contribution etc. for the relevant period of consideration are in the purview of CERC, those factors would be out of scope of consideration of the Commission. The Commission has introduced MVCA for all the distribution licensees with effect from April, 2011. The Commission, thus, considers the working capital requirement @ 18% of power purchase cost for the years 2009 – 2010 and 2010 – 2011 and @ 10% for the years 2011 – 2012, 2012 – 2013 and 2013 – 2014. The SBI Prime Lending Rate (PLR) as on 01.04.2008, 01.04.2009, 01.04.2010, 01.04.2011 and 01.04.2012 are 12.25%, 12.25%, 11.75%, 13.00% and 14.75% respectively. The Commission considers the interest on working capital at the rate of 12.25%, 12.25%, 11.75%, 13.00% and 14.75% which are equal to SBI PLR as stood on 1st April of preceding year of the respective years under the subject period as per regulation 5.6.5.2 of the Tariff Regulations.



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Thus, taking in view of the above consideration, the Commission has admitted the following interest on Working Capital for the command area of West Bengal:

Year	Cost of power purchase for sale in West Bengal (Rs. in lakh)	Percentage of working capital (In %)	Amount of working capital requirement (Rs. in lakh)	SBI PLR Rate (In %)	Interest on working capital as per SBI rate (Rs. in lakh)
2009-2010	28923.31	18	5206.20	12.25	637.76
2010-2011	22014.46	18	3962.60	12.25	485.42
2011-2012	19615.45	10	1961.55	11.75	230.48
2012-2013	38828.09	10	3882.81	13.00	504.77
2013-2014	51532.81	10	5153.28	14.75	760.11

4.8 Interest on Security Deposit to the consumers of West Bengal:

The Petitioner has submitted a claim on interest on the Security Deposit for the consumers of West Bengal for the years 2011 – 2012, 2012 – 2013 and 2013 – 2014 only. DVC has claimed Rs. 95.93 lakh, Rs. 37.34 lakh and Rs. 147.00 lakh on this score for the years 2011 – 2012, 2012 – 2013 and 2013 – 2014 respectively. The Commission allows the above claim of the petitioner.

4.9 Projection of tariff petition filing fees and publication expenses:

The petitioner has claimed the tariff petition filing fees and publication expenses as follows:

(Rs. in lakh)

Item	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Tariff filing fees for WBERC	17.85	17.58	22.01	25.87	26.25
Publication expenses related to WBERC	0.00	0.00	2.87	2.87	2.87
Projected tariff filing charge for WBERC	17.58	17.58	24.88	28.74	29.12
Total Projected tariff filing charge as admitted by the Commission subject to truing up	17.58	17.58	24.88	28.74	29.12



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The Commission considers the tariff filing fees to WBERC and the publication expenses related to WBERC, as submitted by DVC, to the tune of Rs. 17.58 lakh, Rs. 17.58 lakh, Rs. 24.88 lakh, Rs. 28.74 lakh and Rs. 29.12 lakh for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 respectively.

4.10 Non-tariff income:

The Petitioner has projected Non-Tariff incomes as shown in their submission as Rs. 189.00 lakh, Rs. 763.00 lakh, Rs. 2853.69 lakh, Rs. 3159.95 lakh and Rs. 930.00 lakh for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 respectively. The proportionate share of such income for sale to consumers in West Bengal comes at Rs. 78.73 lakh, Rs. 309.27 lakh, Rs. 1173.89 lakh, Rs. 1361.02 lakh and Rs. 396.16 lakh for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 respectively. The Commission admits the same.

4.11 Transmission and Distribution Expenses:

CERC has determined the tariff for composite transmission and distribution activities of DVC for the period 2009 – 2010 to 2013 – 2014 vide their order dated 27.09.2013. DVC has claimed proportionate cost for composite transmission and distribution expenses for West Bengal consumers in their ARR for the respective years. DVC has not claimed any further expenditure on account of distribution systems. As per CERC order the admitted expenditure on account of combined transmission and distribution systems of DVC for the year 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 are Rs. 37629.54 lakh, Rs. 42042.78 lakh, Rs. 48023.29 lakh, Rs. 50184.58 lakh and Rs. 51767.69 lakh respectively. The Commission considers that amount to arrive at the admissible amount for sale to consumers in West Bengal area on the basis of admitted utilization of energy during the respective year under the



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

control period. Such admitted amount for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 comes at Rs. 15674.21 lakh, Rs. 17041.20 lakh, Rs. 19754.86 lakh, Rs. 21615.00 lakh and Rs. 22052.00 lakh respectively.



ANNEXURE – 4A

STATION WISE FIXED CHARGES AND ENERGY CHARGES FOR SALE TO CONSUMERS IN COMMAND AREA OF DVC IN WEST BENGAL FOR THE YEAR 2009 – 2010

SI No	Name of the generating Station	Ex- bus Energy	Percentage share of generation for firm consumers	Share of Energy for sale to consumers of DVC	Share for sale to consumers in West Bengal	Share of Energy for sale to consumers in West Bengal	Normative Availability	Availability as projected (PAF)	Fixed cost as per CERC order/ Petition	Allowable Fixed cost as per PAF	Energy charge as per CERC order/ Petition	Energy charge	Total Cost of Generation	Generation cost per unit	Cost of generation for share to consumers in West Bengal
		(MU)	(%)	(MU)	(%)	(MU)	(%)	(%)	Rs. lakh	Rs. lakh	Paise/kWh	Rs. lakh	Rs. lakh	(Paise/kWh)	Rs. lakh
(1)	(2)	(3)	(4)	$[(5) = (3) \times (4)/100]$	(6)	$[(7) = (5) \times (6)/100]$	(8)	(9)	(10)	(11)	(12)	$[(13) = (3) \times (12)/10]$	$[(14) = (11) + (13)]$	$[(15) = (14) / (3) \times 10]$	$[(16) = (7) \times (15) / 10]$
1	BTPS (Unit 1 to 3)-630 MW	3139.84	100.00	3139.84	41.654	1307.87	75	63.39	36943.07	31224.28	127.754	40112.71	71336.99	227.20	29714.73
2	MTPS U# 1 to 3 -630 MW	2782.90	100.00	2782.90	41.654	1159.19	82	55.41	51987.45	35129.57	170.119	47342.42	82471.99	296.35	34352.91
3	CTPS U # I to III-390 MW	1946.93	100.00	1946.93	41.654	810.97	60	64.39	22684.02	24343.73	137.484	26767.17	51110.90	262.52	21289.62
4	DTPS U# 3 & 4-350 MW	1823.04	100.00	1823.04	41.654	759.37	74	66.44	21438.61	19248.40	190.112	34658.18	53906.58	295.70	22454.27
5	MTPS U # 4-210 MW	1302.08	100.00	1302.08	41.654	542.37	82	77.78	21562.37	21007.53	170.017	22137.57	43145.10	331.36	17971.71
6	MTPS U # 5 & 6-500 MW	1974.49	41.55	820.40	41.654	341.73	85	49.54	49124.85	38877.98	183.390	36210.17	75088.15	380.29	12995.70
7	CTPS (NEW)-U#7&8 IMFIRM POWER	137.25	100.00	137.25	41.654	57.17			0.00	0.00	153.100	2101.30	2101.30	153.10	875.27
8	MHS U # 1, 2, 3 - 63.2 MW	102.38	100.00	102.38	41.654	42.65	80	80	3104.44	3104.44	0.000	0.00	3104.44	303.23	1293.26
9	PHS U #1& 2- 80 MW	84.50	100.00	84.50	41.654	35.20	80	80	2300.24	2300.24	0.000	0.00	2300.24	272.22	958.21
10	THS- U # 1 & 2 -4 MW	9.62	100.00	9.62	41.654	4.01	80	80	683.76	683.76	0.000	0.00	683.76	710.77	285.02
	End year adjustment on account of secondary fuel oil in terms of regulation 20(2) of CERC Tariff regulations														-156.24
	Total	13303.03		12148.94		5060.53			209828.81	175919.93		209329.52	385249.45	289.60	142034.47



ANNEXURE – 4B

STATION WISE FIXED CHARGES AND ENERGY CHARGES FOR SALE TO CONSUMERS IN COMMAND AREA OF DVC IN WEST BENGAL FOR THE YEAR 2010 – 2011

SI No	Name of the generating Station	Ex- bus Energy	Percentage share of generation for firm consumers	Share of Energy for sale to consumers of DVC	Share for sale to consumers in West Bengal	Share of Energy for sale to consumers in West Bengal	Normative Availability	Availability as projected (PAF)	Fixed cost as per CERC order/ Petition	Allowable Fixed cost as per PAF	Energy charge as per CERC order/ Petition	Energy charge	Total Cost of Generation	Generation cost per unit	Cost of generation for share to consumers in West Bengal
		(MU)	(%)	(MU)	(%)	(MU)	(%)	(%)	Rs. lakh	Rs. lakh	Paise/kWh	Rs. lakh	Rs. lakh	(Paise/kWh)	Rs. lakh
(1)	(2)	(3)	(4)	$[(5) = (3) \times (4)/100]$	(6)	$[(7) = (5) \times (6)/100]$	(8)	(9)	(10)	(11)	(12)	$[(13) = (3) \times (12)/10]$	$[(14) = (11) + (13)]$	$[(15) = (14) / (3) \times 10]$	$[(16) = (7) \times (15) / 10]$
1	BTPS (Unit 1 to 3)-630 MW	3039.88	100.00	3039.88	40.533	1232.15	75	61.37	38357.97	31387.05	148.901	45264.12	76651.17	252.15	31068.90
2	MTPS U# 1 to 3 -630 MW	3741.57	100.00	3741.57	40.533	1516.57	82	74.50	52866.92	48031.53	191.129	71512.25	119543.78	319.50	48454.66
3	CTPS U # I to III-390 MW	2332.73	100.00	2332.73	40.533	945.53	60	77.15	24043.83	30916.36	155.294	36225.90	67142.26	287.83	27214.90
4	DTPS U# 3 & 4-350 MW	1337.60	100.00	1337.60	40.533	542.17	74	48.75	22112.14	14567.12	231.846	31011.72	45578.84	340.75	18474.49
5	MTPS U # 4-210 MW	1267.66	100.00	1267.66	40.533	513.82	82	75.72	21561.80	20736.14	190.566	24157.29	44893.43	354.14	18196.63
6	MTPS U # 5 & 6-500 MW	2800.78	17.17	480.89	40.533	194.92	85	70.27	49124.85	44868.33	203.840	57091.10	101959.43	364.04	7095.86
7	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	81.65	100.00	81.65	40.533	33.10	0	0.00	0.00	0.00	238.100	1944.09	1944.09	238.10	788.11
8	CTPS (NEW)-U#7&8-INFIRM POWER	189.54	100.00	189.54	40.533	76.83	0	0.00	0.00	0.00	153.100	2901.86	2901.86	153.10	1176.27
9	MHS U # 1, 2, 3 - 63.2 MW	59.47	100.00	59.47	40.533	24.10	80	80	3233.94	3233.94	0.000	0.00	3233.94	543.79	1310.54
10	PHS U #1& 2- 80 MW	54.27	100.00	54.27	40.533	22.00	80	80	2355.07	2355.07	0.000	0.00	2355.07	433.95	954.70
11	THS- U # 1 & 2 -4 MW	0.46	100.00	0.46	40.533	0.19	80	80	721.09	721.09	0.000	0.00	721.09	15675.87	297.84
12	End year adjustment on account of secondary fuel oil in terms of regulation 20(2) of CERC Tariff Regulations														324.38
	Total	14905.61		12585.72		5101.38				196816.63		270108.33	466924.96	313.25	155357.29



ANNEXURE – 4C

STATION WISE FIXED CHARGES AND ENERGY CHARGES FOR SALE TO CONSUMERS IN COMMAND AREA OF DVC IN WEST BENGAL FOR THE YEAR 2011 – 2012

SI No	Name of the generating Station	Ex- bus Energy	Percentage share of generation for firm consumers	Share of Energy for sale to consumers of DVC	Share for sale to consumers in West Bengal	Share of Energy for sale to consumers in West Bengal	Normative Availability	Availability as projected (PAF)	Fixed cost as per CERC order/ Petition	Allowable Fixed cost as per PAF	Energy charge as per CERC order/ Petition	Energy charge	Total Cost of Generation	Generation cost per unit	Cost of generation for share to consumers in West Bengal
		(MU)	(%)	(MU)	(%)	(MU)	(%)	(%)	Rs. lakh	Rs. lakh	Paise/kWh	Rs. lakh	Rs. lakh	(Paise/kWh)	Rs. lakh
(1)	(2)	(3)	(4)	$[(5) = (3) \times (4)/100]$	(6)	$[(7) = (5) \times (6)/100]$	(8)	(9)	(10)	(11)	(12)	$[(13) = (3) \times (12)/10]$	$[(14) = (11) + (13)]$	$[(15) = (14) / (3) \times 10]$	$[(16) = (7) \times (15) / 10]$
1	BTPS (Unit 1 to 3)-630 MW	2964.44	88.81	2632.72	41.136	1083.00	75	59.85	39907.53	31846.21	158.40	46956.73	78802.94	265.83	28789.11
2	MTPS U# 1 to 3 -630 MW	3365.22	88.81	2988.65	41.136	1229.41	82	67.01	59653.73	48748.74	230.100	77433.71	126182.45	374.96	46098.02
3	CTPS U # I to III-390 MW	1943.69	88.81	1726.19	41.136	710.09	60	64.29	24948.64	26732.47	190.000	36930.11	63662.58	327.53	23257.91
4	DTPS U# 3 & 4-350 MW	1745.39	88.81	1550.08	41.136	637.64	74	63.60	23900.26	20541.30	302.700	52832.96	73374.26	420.39	26805.68
5	MTPS U # 4-210 MW	1175.72	88.81	1044.16	41.136	429.53	82	70.23	24015.44	22291.89	230.100	27053.32	49345.21	419.70	18027.46
6	MTPS U # 5 & 6-500 MW	3280.97	58.48	1918.71	41.136	789.28	85	82.32	60104.33	59156.80	209.500	68736.32	127893.12	389.80	30766.35
7	MTPS (NEW)- U#7 & 8-1000 MW	1244.35	96.22	1197.31	41.136	492.53	85	45.80	68466.43	40843.97	238.100	29627.97	70471.94	566.34	27893.72
8	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	58.08	100.00	58.08	41.136	23.89	0	0.00	0.00	0.00	238.100	1382.88	1382.88	238.10	3292.63
9	CTPS (NEW)-U#7&8 -INFIRM POWER	308.84	100.00	308.84	41.136	127.04	85	0.00	0.00	0.00	153.100	4728.34	4728.34	153.10	1945.05
10	CTPS (NEW)-U#7&8-500 MW	1327.72	40.86	542.51	41.136	223.17	85	59.02	36526.46	28079.64	153.100	20327.39	48407.03	364.59	8136.50
11	KTPS (NEW)-U#1&2 and DSTPS (NEW) U #1& 2 - INFIRM POWER	6.40	100.00	6.40	41.136	2.63	85	0.00	0.00	0.00	287.550	184.03	184.03	287.55	75.62
12	MHS U # 1, 2, 3 - 63.2 MW	121.85	100.00	121.85	41.136	50.12	80	80	3542.51	3542.51	0.000	0.00	3542.51	290.73	1457.12
13	PHS U #1& 2- 80 MW	172.83	100.00	172.83	41.136	71.10	80	80	2589.23	2589.23	0.000	0.00	2589.23	149.81	1065.18
14	THS- U # 1 & 2 -4 MW	6.50	100.00	6.50	41.136	2.67	80	80	771.08	771.08	0.000	0.00	771.08	1186.28	316.74
15	End year adjustment on account of secondary fuel oil in terms of regulation 20(2) of CERC Tariff Regulations														1848.42
	Total	17722.00		14274.83		5872.10				285143.84		366193.76	651337.60	367.53	219775.50



ANNEXURE – 4D

STATION WISE FIXED CHARGES AND ENERGY CHARGES FOR SALE TO CONSUMERS IN COMMAND AREA OF DVC IN WEST BENGAL FOR THE YEAR 2012 – 2013

Sl No	Name of the generating Station	Ex- bus Energy	Percentage share of generation for firm consumers	Share of Energy for sale to consumers of DVC	Share for sale to consumers in West Bengal	Share of Energy for sale to consumers in West Bengal	Normative Availability	Availability as projected (PAF)	Fixed cost as per CERC order/ Petition	Allowable Fixed cost as per PAF	Energy charge as per CERC order / Petition	Energy charge	Total Cost of Generation	Generation cost per unit	Cost of generation for share to consumers in West Bengal
		(MU)	(%)	(MU)	(%)	(MU)	(%)	(%)	Rs. lakh	Rs. lakh	Paise/kWh	Rs. lakh	Rs. lakh	(Paise/kWh)	Rs. lakh
(1)	(2)	(3)	(4)	$[(5) = (3) \times (4)/100]$	(6)	$[(7) = (5) \times (6)/100]$	(8)	(9)	(10)	(11)	(12)	$[(13) = (3) \times (12)/10]$	$[(14) = (11) + (13)]$	$[(15) = (14) / (3) \times 10]$	$[(16) = (7) \times (15) / 10]$
1	BTPS (Unit 1 to 3)-630 MW	2759.18	90.71	2502.85	43.071	1078.00	75	65.03	42860.28	37162.72	167.70	46270.90	83433.62	302.39	32597.16
2	MTPS U# 1 to 3 -630 MW	2142.44	88.04	1886.20	43.071	812.41	82	54.62	61227.79	40783.68	257.69	55208.32	95992.00	448.05	36400.02
3	CTPS U # I to III-390 MW	1767.40	91.02	1608.69	43.071	692.88	60	61.57	27295.74	28009.98	212.67	37587.83	65597.81	371.15	25716.54
4	DTPS U# 3 & 4-350 MW	1834.35	92.24	1692.00	43.071	728.76	74	75.85	25419.58	26055.07	306.10	56149.09	82204.16	448.14	32658.49
5	MTPS U # 4-210 MW	1179.78	92.76	1094.36	43.071	471.35	82	77.37	24125.66	23444.55	257.69	30401.63	53846.18	456.41	21512.82
6	MTPS U # 5 & 6-500 MW	3179.36	32.76	1041.56	43.071	448.61	85	89.16	49124.85	50326.96	259.56	82523.47	132850.43	417.85	18745.29
7	MTPS (NEW)- U#7 & 8-1000 MW-INFIRM POWER	284.17	43.99	125.01	43.071	53.84	0	0.00	0.00	0.00	231.41	6575.98	15217.48	535.51	2883.17
8	MTPS (NEW)- U#7 & 8-1000 MW	4750.37	43.99	2089.69	43.071	900.05	85	82.07	102553.25	100785.71	231.41	109928.31	210714.02	443.57	39923.87
9	CTPS (NEW)-U#7&8-500 MW	3251.53	0.00	0.00	43.071	0.00	85	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	KTPS (NEW)-U#1&2-1000 MW-INFIRM POWER	45.93	67.82	31.15	43.071	13.42	85	NA	0.00	0.00	407.21	1870.32	1870.32	407.21	546.48
11	DSTPS(NEW)-U#1&2-1000 MW-INFIRM POWER	235.33	67.82	159.60	43.071	68.74	85	0.00	0.00	0.00	287.55	6766.91	6766.91	287.55	1976.62
12	DSTPS(NEW)-U#1&2-1000 MW	2241.12	67.82	1519.93	43.071	654.65	85	69.98	30082.30	27420.14	287.55	64443.41	91863.55	409.90	26834.12
13	MHS U # 1, 2, 3 - 63.2 MW	88.54	100.00	88.54	43.071	38.14	80	80	3660.65	3660.65	0.00	0.00	3660.65	413.45	1576.88
14	PHS U #1& 2- 80 MW	109.34	100.00	109.34	43.071	47.09	80	80	2689.97	2689.97	0.00	0.00	2689.97	246.02	1158.50
15	THS- U # 1 & 2 -4 MW	4.04	100.00	4.04	43.071	1.74	80	80	814.25	814.25	0.00	0.00	814.25	2015.47	350.69
16	End year adjustment on account of secondary fuel oil in terms of regulation 20(2) of CERC Tariff regulations														2690.57
	Total	23872.88		13952.96		6009.68			369854.32	341153.68		497726.17	847521.35	355.01	245571.22



ANNEXURE – 4E

STATION WISE FIXED CHARGES AND ENERGY CHARGES FOR SALE TO CONSUMERS IN COMMAND AREA OF DVC IN WEST BENGAL FOR THE YEAR 2013 – 2014

SI No	Name of the generating Station	Ex- bus Energy	Percentage share of generation for firm consumers	Share of Energy for sale to consumers of DVC	Share for sale to consumers in West Bengal	Share of Energy for sale to consumers in West Bengal	Normative Availability	Availability as projected (PAF)	Fixed cost as per CERC order/ Petition	Allowable Fixed cost as per PAF	Energy charge as per CERC order / Petition	Energy charge	Total Cost of Generation	Generation cost per unit	Cost of generation for share to consumers in West Bengal
		(MU)	(%)	(MU)	(%)	(MU)	(%)	(%)	Rs. lakh	Rs. lakh	Paise/kWh	Rs. lakh	Rs. lakh	(Paise/kWh)	Rs. lakh
(1)	(2)	(3)	(4)	$[(5) = (3) \times (4)/100]$	(6)	$[(7) = (5) \times (6)/100]$	(8)	(9)	(10)	(11)	(12)	$[(13) = (3) \times (12)/10]$	$[(14) = (11) + (13)]$	$[(15) = (14) / (3) \times 10]$	$[(16) = (7) \times (15) / 10]$
1	BTPS (Unit I to III)-630 MW	3389.60	93.07	3154.70	42.598	1343.84	75	72.86	45680.80	44377.37	167.698	56842.91	101220.28	298.62	40129.75
2	MTPS U# I to III -630 MW	3240.16	92.75	3005.25	42.598	1280.18	82	70.72	54097.74	46656.00	257.689	83495.36	130151.36	401.68	51422.34
3	CTPS U # I to III-390 MW	1984.40	92.68	1839.14	42.598	783.44	60	68.40	28651.63	32662.86	212.673	42202.83	74865.69	377.27	29556.84
4	DTPS U# III & IV-350 MW	1964.60	93.36	1834.15	42.598	781.31	74	75.75	27439.00	28087.90	306.098	60136.01	88223.91	449.07	35086.20
5	MTPS U # IV-210 MW	1144.88	93.16	1066.57	42.598	454.34	82	74.72	24284.78	23206.77	257.689	29502.30	52709.07	460.39	20917.22
6	MTPS U # 5 & 6-500 MW	3174.09	29.93	950.01	42.598	404.68	85	84.30	49124.85	48922.57	259.560	82386.68	131309.25	413.69	16741.38
7	CTPS (NEW)-U#7&8-500 MW	3359.78	0.00	0.00	42.598	0.00	85	89.48	62137.63	72421.15	407.210	136813.60	209234.75	622.76	0.00
8	MTPS U 7 & 8 -1000 MW	6580.30	27.16	1787.21	42.598	761.32	85	84.90	118371.50	118301.87	231.410	152274.72	270576.59	411.19	31304.67
9	KTPS U I & II - 1000 MW	2417.14	70.98	1715.69	42.598	730.85	85	64.36	60386.28	50621.97	407.210	98428.36	149050.33	616.64	45066.95
10	DSTPS U I & II NEW -1000 MW	4968.62	21.12	1049.37	42.598	447.01	85	65.50	139149.76	118715.79	287.550	142872.67	261588.46	526.48	23534.32
11	RTPS U# I & II-1000 MW	4.30	46.51	2.00	42.598	0.85	85	34.00	280.87	124.38	407.210	175.10	299.48	696.47	59.33
12	MHS U # I,II,III-63.2 MW	103.13	78.04	80.48	42.598	34.28	80	80	3783.78	3783.78	0.000	0.00	3783.78	366.89	1257.86
13	PHS U I & II-80 MW	142.95	78.04	111.56	42.598	47.52	80	80	2788.98	2788.98	0.000	0.00	2788.98	195.10	927.15
14	THS-4 MW	3.92	78.04	3.06	42.598	1.30	80	80	857.31	857.31	0.000	0.00	857.31	2187.02	285.00
	Total	32477.87		16599.18		7070.92				591528.70		885130.54	1476659.24	454.67	296289.03



ANNEXURE – 4F

Computation of Power purchase cost for the year 2009 – 2010

Sl. No	Agency	Energy	Fixed Charge	Energy Chare Rate	Energy Charge	Transmission Charge	Fuel & Power Cost Adjustment	Total Cost	CTU Grid loss
		MU	Rs. Lakh	Paise/kWh	Rs. lakh	Rs. lakh	Rs. lakh	Rs. lakh	MU
1	NTPC Ltd.	0							
	Talcher (TSTPS)	21.98	123.12	41.10	90.34	54.07		267.53	0.63
		0							
2	PTC India Ltd.	0							
	a) Chukha HEP	189.65	0.00	159.00	3015.44	465.60		3481.04	5.82
	b) Kuruchhu HEP	91.56	0.00	185.00	1693.86	224.76		1918.62	2.82
	c) Tala HEP	184.44	0.00	184.00	3393.7	452.40		3846.10	5.82
		0							
3	NHPC Ltd.	0							
	a) Rangeet HEP	32.13	284.04	79.40	255.11	78.92	55.67	673.74	0.97
	b) Teesta HEP	222.36	1820.47	75.10	1669.92	546.14	917.32	4953.85	6.73
		0							
4	WBSEDCL	9.54	0.00	290.2	276.85			276.59	0.27
	Total	751.66	2227.63		10395.22	1821.89	972.99	15417.47	23.06

Energy After CTU Loss	728.60		
Share for sale in West Bengal	303.49		
Power purchase cost including associated transmission cost for sale in West Bengal		A	Rs. lakh 6421.97
Net UI drawal		B	MU 1625
Net UI Charge Payable		C	Rs. lakh 59755.00
Admissible net UI drawal for sale in West Bengal		D	MU 611.91
Admissible UI Charge Payable		E = (C x D)/(B)	Rs. lakh 22501.34
Total Power purchase cost for sale in West Bengal		F = A+E	Rs. lakh 28923.31



ANNEXURE – 4G

Computation of Power purchase cost for the year 2010 – 2011

Sl. No	Agency	Energy	Fixed Charge	Energy Charge Rate	Energy Charge	Transmission Charge	Fuel & Power Cost Adjustment	Total Cost	CTU Grid loss
		MU	Rs. Lakh	Paise/kWh	Rs. lakh	Rs. lakh	Rs. lakh	Rs. lakh	MU
1	NTPC Ltd.								
	Talcher (TSTPS)	21.59	123.23	163.73	353.49	78.10	64.12	618.94	0.59
2	PTC India Ltd.								
	a) Chukha HEP	190.71	0.00	159.00	3032.29	689.71	0.00	3722.00	5.24
	b) Kuruchhu HEP	85.86	0.00	185.00	1588.41	310.52	0.00	1898.93	2.36
	c) Tala HEP	198.16	0.00	184.00	3646.14	716.66	0.00	4362.80	5.45
3	NHPC Ltd.								
	a) Rangeet HEP	34.04	289.03	79.26	269.8	123.11	154.39	836.33	0.94
	b) Teesta HEP	223.97	1735.12	74.85	1676.42	810.00	1466.48	5688.02	6.16
	Total	754.33	2147.38		10566.55	2728.10		17127.02	20.74

Energy After CTU Loss 733.59

Share for sale in West Bengal 297.35

Power purchase cost including associated transmission cost for sale in West Bengal

Net UI drawal

Net UI Charge Payable

Admissible net UI drawal for sale in West Bengal

Admissible UI Charge Payable

Total Power purchase cost for sale in West Bengal

A	Rs. lakh	6942.19
B	MU	1782
C	Rs. lakh	42878.00
D	MU	626.40
E = (C x D)/(B)	Rs. lakh	15072.27
F = A+E	Rs. lakh	22014.46



ANNEXURE – 4H

Computation of Power purchase cost for the year 2011 – 2012

Sl. No	Agency	Energy	Fixed Charge	Energy Charge Rate	Energy Charge	Transmission Charge	Fuel & Power Cost Adjustment	Total Cost	CTU Grid loss
		MU	Rs. Lakh	Paise/kWh	Rs. lakh	Rs. lakh	Rs. lakh	Rs. lakh	MU
1	NTPC Ltd.								
	Talcher (TSTPS)	20.58	164.88	204.70	421.27	265.06	404.92	1256.13	0.34
2	PTC India Ltd.								
	a) Chukha HEP	177.76	0.00	159.00	2826.38	2290.85	0.00	5117.23	2.84
	b) Kuruchhu HEP	77.05	0.00	185.00	1425.43	991.48	0.00	2416.91	1.34
	c) Tala HEP	188.73	0.00	184.95	3490.56	2433.07	0.00	5923.63	2.94
3	NHPC Ltd.								
	a) Rangeet HEP	34.12	989.33	289.97	989.38	439.63	0.00	2418.34	0.55
	b) Teesta HEP	218.3	4243.25	194.37	4243.10	2810.45	0.00	11296.80	3.70
4	Maitihon Power Ltd.	543.14	7847.19	165.25	8975.39	1157.30	0.00	17979.88	7.71
5	Power Exchange	23.32	0.00	232.75	542.77	0.00	0.00	542.77	0.00
	Total	1283.00	13244.65		22914.28	10387.84		46951.69	19.42

Energy After CTU Loss 1263.58

Share for sale in West Bengal 519.79

Power purchase cost including associated transmission cost for sale in West Bengal

A Rs. lakh 19314.19

Net UI drawal

B MU 684.53

Net UI Charge Payable

C Rs. lakh 21216.26

Admissible net UI drawal for sale in West Bengal

D MU 9.72

Admissible UI Charge Payable

E = (C x D)/(B) Rs. lakh 301.26

Total Power purchase cost for sale in West Bengal

F = A+E Rs. lakh 19615.45



ANNEXURE – 4I

Computation of Power purchase cost for the year 2012 – 2013

Sl. No	Agency	Energy	Fixed Charge	Energy Charge Rate	Energy Charge	Transmission Charge	Fuel & Power Cost Adjustment	Total Cost	CTU Grid loss
		MU	Rs. Lakh	Paise/kWh	Rs. lakh	Rs. lakh	Rs. lakh	Rs. lakh	MU
1	NTPC Ltd								
	a) Farakka (FSTPS)	221.38	5539.35	250.22	5539.37	761.38	-2027.77	9812.33	6.06
	b) Talcher (TSTPS)	20.78	279.3	134.38	279.24	71.47	-51.72	578.29	0.54
2	PTC India Ltd.								
	a) Chukha HEP	161.41	0.00	159.73	2578.2	555.13	0.00	3133.33	4.69
	b) Kuruchhu HEP	67.85	0.00	203.03	1377.56	233.39	0.00	1610.95	1.97
	c) Tala HEP	171.74	0.00	202.00	3469.15	590.69	0.00	4059.84	4.98
3	NHPC Ltd.								
	a) Rangeet HEP	32.05	945.35	294.93	945.25	110.23	0.00	2000.83	0.77
	b) Teesta HEP	193.02	2787.78	144.43	2787.79	663.84	0.00	6239.41	5.75
4	Maitihon Power Ltd.	1505.03	22461.95	149.25	22462.57	5176.15	10527.62	60628.29	42.6
	Total	2373.26	32013.73		39439.13	8162.28		88063.27	67.36

Energy After CTU Loss	2305.90		
Share for sale in West Bengal	993.18		
Power purchase cost including associated transmission cost for sale in West Bengal		A	Rs. lakh 37929.95
Net UI drawal		B	MU 272.57
Net UI Charge Payable		C	Rs. lakh 3289.51
Admissible net UI drawal for sale in West Bengal		D	MU 74.42
Admissible UI Charge Payable		E = (C x D)/(B)	Rs. lakh 898.14
Total Power purchase cost for sale in West Bengal		F = A+E	Rs. lakh 38828.09



ANNEXURE – 4J

Computation of Power purchase cost for the year 2013 – 2014

Sl. No	Agency	Energy (Projected)	Projected Fixed Charge	Projected Energy Charge Rate	Projected Energy Charge	Projected Transmission Charge	Fuel & Power Cost Adjustment	Projected Total Cost	Projected CTU Grid loss
		MU	Rs. Lakh	Paise/kWh	Rs. lakh	Rs. lakh	Rs. lakh	Rs. lakh	MU
1	NTPC Ltd								
	a) Farakka (FSTPS)	228.62	3704.55	216.00	4938.19	1377.98	0.00	10020.72	6.17
	b) Talcher (TSTPS)	18.35	155.57	180.00	330.30	110.60	0.00	596.47	0.50
	c) Nabinagar	17.18	376.24	95.00	163.21	103.55	0.00	643.00	0.46
2	PTC India Ltd.								
	a) Chukha HEP	160.00	0.00	159.00	2544.00	964.38	0.00	3508.38	4.32
	b) Kuruchhu HEP	160.00	0.00	213.00	3408.00	964.38	0.00	4372.38	4.32
	c) Tala HEP	80.00	0.00	202.00	1616.00	482.19	0.00	2098.19	2.16
3	NHPC Ltd.								
	a) Rangeet HEP	33.60	463.93	138.10	464.02	202.52	0.00	1130.47	0.91
	b) Teesta HEP	198.45	2067.93	104.20	2067.85	1196.14	0.00	5331.92	5.36
4	Maithon Power Ltd.	1318.36	17952.34	248.80	32800.80	10072.99	0.00	60826.13	45.12
5	Renewable Power-Solar	92.00	0.00	890.00	8188.00	0.00		8188.00	13.37
6	Renewable Power-Non Solar	403.10	0.00	504.00	20316.24	3941.38		24257.62	
	Total	2709.66	24720.56		76836.61	19416.11		120973.28	82.69

Energy After CTU Loss	2626.97		
Share for sale in West Bengal	1119.05		
Total cost of power purchase for sale in West Bengal		Rs. lakh	51532.81
Net UI drawal		B MU	0.00
Net UI Charge Payable		C Rs. lakh	0.00
Admissible net UI drawal for sale in West Bengal		D MU	0.00
Admissible UI Charge Payable		E = (C x D)/(B) Rs. lakh	0.00
Total Power purchase cost for sale in West Bengal		F = A+E Rs. lakh	51532.81



CHAPTER – 5 SUMMARISED STATEMENT OF AGGREGATE REVENUE REQUIREMENT & REVENUE RECOVERABLE THROUGH TARIFF FOR THE YEARS 2009 2010 to 2013 - 2014

5.1 Based on the analyses and findings recorded in the foregoing chapters we are now drawing the statements of Aggregate Revenue Requirement (ARR) separately for each of the five years of the period covering the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014. Such statements are given below:

Rs. in lakh

Item	As admitted by the Commission				
	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Power Purchase Cost	28923.31	22014.46	19615.45	38828.09	51532.81
Generation cost	142034.47	155357.29	219775.50	245571.22	296289.03
Transmission and distribution cost	15674.21	17041.20	19754.86	21615.00	22052.00
Interest on Working capital	637.76	485.42	230.48	504.77	760.11
Interest on security deposit payable to West Bengal consumers	0.00	0.00	95.93	37.34	147.00
Tariff Filing Charge	17.58	17.58	24.88	28.74	29.12
Gross Total	187287.33	194915.95	259497.10	306585.16	370810.07
Less: Non-tariff income	78.73	309.27	1173.89	1361.02	396.16
Net ARR for sale to consumers in West Bengal	187208.60	194606.68	258323.21	305224.14	370413.91

5.2 The Commission has also worked out the average tariff for consumers of DVC for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and the accumulated revenue gap during the year 2009 – 2010 to 2012 – 2013. The Commission also computed the accumulated revenue gap for the years 2009 – 2010 to 2012 – 2013. The Commission decides to release such accumulated revenue gap after finalization of APR for 2009 – 2010 to 2012 – 2013 as per the



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provisions of the Tariff Regulations, 2011. The Commission also works out the average tariff for the year 2013 - 2014 and the same are shown in the table below:

AVERAGE TARIFF FOR THE CONSUMERS OF DVC IN THE COMMAND AREA IN WEST BENGAL FOR THE YEARS 2009 – 2010 TO 2012 – 2013 and accumulated revenue gap							
Sl. No.	Particulars	Unit	2009-2010	2010-2011	2011-2012	2012-2013	
1.	Total revenue to be recovered through tariff	Rs. Lakh	187208.60	194606.68	258323.21	305224.14	
2.	Projected quanta of energy for sale to the consumers	MU	5778.43	5827.44	6218.96	6882.38	
3.	Average tariff for the consumers [(3)= [(1) ÷ (2)]	Paise / kWh	323.98	333.95	415.38	443.49	
4.	Revenue realized from the consumers of DVC in command area in West Bengal	Rs. Lakh	207006.00	150964.00	217779.00	258468.00	
5.	Revenue Gap [(5) = (1) – (4)]	Rs. Lakh	-19797.40	43642.68	40544.21	46756.14	
6.	Accumulated Revenue gap during the period 2009 – 2010 and 2012 - 2013	Rs. Lakh					111145.63

Average tariff for the consumers of DVC in the Command area in West Bengal during the year 2013 - 2014

Sl. No.	Particulars	Unit	2013 – 2014
1.	Net ARR for sale to consumers in command area in West Bengal	Rs. lakh	370413.91
2.	Quantum of energy for sale to the consumers in West Bengal	MU	7965.90
3.	Average tariff for consumers	Paise / kWh	465.00



CHAPTER - 6 TARIFF ORDER

- 6.1 In the previous chapter, the Commission has analyzed various issues relevant to revenue requirements and determined for DVC the revenue recoverable through tariff during 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 - 2014 and the average tariff for the consumers of DVC for 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 - 2014 as well. The Commission now retains and fixes the tariff for 2009 – 2010 to 2012 – 2013 as were realized by DVC for all categories of consumers in respective years. The under / over recovery between the admissible revenue requirements and the tariff realized during the years 2009 – 2010 to 2012 – 2013 has been retained as accumulated revenue gap to be considered for adjustment after finalization of APR for 2009 – 2010 to 2012 – 2013 as per provisions of the Tariff Regulations subject to subsequent orders of CERC for new generating stations, if any. The Commission now proceeds to determine the tariff schedule applicable to the consumers of DVC and also the associated conditions of tariff of DVC for the year 2013 - 2014. The Commission is passing other orders also as mentioned in subsequent paragraphs.
- 6.2 The tariff schedule as applicable to the consumers of DVC in the year 2013 – 2014 is given at Annexure – 6A1 for LV and MV consumers and at Annexure – 6A2 for HV and EHV consumers. The said tariff structure has been designed in a manner to fulfill the objective of attaining average tariff of each class of consumers within 80% to 120% of the average cost of supply except for lifeline consumers. For lifeline consumers the tariff has been kept at least of about 50% of average cost of supply in line with the guidelines in paragraph 8.3(i) of National Tariff Policy.

DVC, as stated in their application, has been undertaking LT supply for very insignificant quantum of electricity to meet their own colony consumption and also to meet the lighting load at Bokaro and Waria railway stations since



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inception at a nominal rate. Moreover, the Commission has already given direction to DVC to build up their LT infrastructure to give electric supply to all consumers under their area of supply in West Bengal. The Commission thus considers to specify the tariff schedule for low and medium voltage consumers.

6.3 Details of different tariff schemes of different classes of consumers and various associated terms and conditions are specified in various regulations and in Annexure C1 and Annexure C2 of the Tariff Regulations. Other associated conditions of the tariff for the year 2013 - 2014 shall be as follows:

6.3.1 Load Factor Rebate / Surcharge:

6.3.1.1 In order to reduce the overall system T&D loss and to flatten the load curve by improving the existing system load factor of DVC, the HT industrial consumers shall receive voltage wise graded load factor rebate as per the following table:

LOAD FACTOR REBATE (Paise / kWh)

Range of Load Factor (LF)		Supply Voltage		
		Below 33 kV	33 kV	Above 33 kV
Above 65%	Up to 70%	1	2	3
Above 70%	Up to 75%	3	4	5
Above 75%	Up to 80%	5	6	7
Above 80%	Up to 85%	7	8	9
Above 85%	Up to 90%	10	12	14
Above 90%		13	16	19

6.3.1.2 The above load factor rebate shall be applicable on quantum of energy consumed in the billing period. (For example a 33 kV industrial consumer at 85% load factor shall be eligible for a rebate @ 8 paise / kWh on the total quantum of energy consumed in the billing period).

6.3.1.3 Load factor surcharge shall be levied on HV industrial and HV commercial consumers if the load factor falls below 30%. The surcharge for the load factor



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less than 30% but equal to or above 25% shall be 5 paise / kWh for the amount of energy by which consumption falls short of energy corresponding to a load factor of 30%. The surcharge for the load factor below 25% shall be 10 paise / kWh and shall be applicable only for the amount of energy by which the consumption falls short of energy corresponding to a load factor of 25% but not less than the amount of surcharge that would have been payable for load factor at 25% computed @ 5 paise / kWh. (For example, a HV industrial or commercial consumer at 28% load factor shall be liable to pay surcharge @ 5 paise / kWh on the quantum of energy to be consumed at 30% load factor minus total energy consumed in the billing period. Similarly, a HV industrial or commercial consumer at 24% load factor shall be liable to pay surcharge @ 10 paise / kWh on the quantum of energy to be consumed at 25% load factor minus total energy consumed in the billing period but not less than the amount of surcharge that would have been payable for load factor at 25% computed @ 5 paise / kWh).

6.3.1.4 The load factor rebate and load factor surcharge shall be computed in accordance with the formula and associated principles given in regulations 3.9.2, 3.9.3 and 3.9.4 of the Tariff Regulations and at the rates as mentioned in paragraphs 6.3.1.1 and 6.3.1.3 above.

6.3.2 Fixed / Demand Charge:

6.3.2.1 The fixed charge shall be applicable to different categories of consumers as per rate as shown in Annexures – 6A1 of this tariff order.

6.3.2.2 The demand charge shall be applicable to different categories of consumers as per rate as shown in Annexures – 6A1 & 6A2 of this order on the basis of recorded demand as specified in regulation 4.3.3 of the Tariff Regulations.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

- 6.3.2.3 When a new consumer gets connected to the system, the computation of fixed charge or demand charge for that month shall be made pro-rata for the number of days of supply in that particular month.
- 6.3.3 Subject to conditions as specified in regulation 4.13 of the Tariff Regulations, minimum charge shall continue at existing level for all consumers.
- 6.3.4 For a pre-paid consumer who has purchased voucher prior to issue of this order, the existing tariff will continue till such voucher is exhausted.
- 6.3.5 For all consumers excluding consumers having pre-paid meters, rebate shall be given @ 1% of the amount of the bill excluding meter rent, taxes, duties, levies and arrears (not being the arrears due to revision of tariff) if the payment is made within the due date.
- 6.3.6 In addition to the rebate under paragraphs 6.3.4 and 6.3.5 above, if the payment is made within due date, then an additional rebate of 1% of the amount of the bill excluding meter rent, taxes, duties, levies and arrears (not being arrears due to revision of tariff) would be allowed to the consumers who would pay their energy bills through e-payment facility (through web by using net banking, debit card, credit card, electronic clearing scheme) as introduced by DVC. The prepaid consumers purchasing prepaid voucher through e-payment facility will get 1% rebate in voucher amount. A rebate of Rs. 5.00 will be admissible prospectively if any consumer opt for e-bill following regulation 3.1.10 of West Bengal Electricity Regulatory Commission (Electricity Supply Code) Regulations, 2013. These rebates are applicable after giving effect under paragraphs 6.3.4 and 6.3.5 of this order.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

6.3.7 Power Factor Rebate / Surcharge:

6.3.7.1 The power factor rebate and surcharge shall be applicable for the consumers at HV and EHV to whom those were applicable during the year 2013 – 2014. The rate of rebate and surcharge and the methods of calculation of such rebate and surcharge are given below:

Power Factor (PF) Range in %	Power Factor Rebate & Surcharge on Energy Charge in Percentage							
	For Consumers under TOD Tariff						For Consumers under non-TOD Tariff	
	Normal Period		Peak Period		Off-peak Period		Rebate in %	Surcharge in %
	Rebate in %	Surcharge in %	Rebate in %	Surcharge in %	Rebate in %	Surcharge in %		
PF > 99%	8.00	0.00	9.00	0.00	7.00	0.00	5.00	0.00
PF > 98% & PF ≤ 99%	7.00	0.00	8.00	0.00	6.00	0.00	4.00	0.00
PF > 97% & PF ≤ 98%	5.00	0.00	6.00	0.00	4.00	0.00	3.00	0.00
PF > 96% & PF ≤ 97%	4.00	0.00	5.00	0.00	3.00	0.00	2.50	0.00
PF > 95% & PF ≤ 96%	3.00	0.00	4.00	0.00	2.00	0.00	2.00	0.00
PF > 94% & PF ≤ 95%	2.25	0.00	3.00	0.00	1.50	0.00	1.50	0.00
PF > 93% & PF ≤ 94%	1.50	0.00	2.00	0.00	1.00	0.00	1.00	0.00
PF > 92% & PF ≤ 93%	0.75	0.00	1.00	0.00	0.50	0.00	0.50	0.00
PF ≥ 86% & PF ≤ 92%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PF ≥ 85% & PF < 86%	0.00	0.75	0.00	1.00	0.00	0.50	0.00	0.50
PF ≥ 84% & PF < 85%	0.00	1.50	0.00	2.00	0.00	1.00	0.00	1.00
PF ≥ 83% & PF < 84%	0.00	2.25	0.00	3.00	0.00	1.50	0.00	1.50
PF ≥ 82% & PF < 83%	0.00	3.00	0.00	4.00	0.00	2.00	0.00	2.00
PF ≥ 81% & PF < 82%	0.00	4.00	0.00	5.00	0.00	3.00	0.00	2.50
PF ≥ 80% & PF < 81%	0.00	5.00	0.00	6.00	0.00	4.00	0.00	3.00
PF < 80%	0.00	6.00	0.00	7.00	0.00	5.00	0.00	3.50

6.3.7.2 The rebate and surcharge against different time periods shall be reflected in the bill separately and shall be treated separately.

6.3.7.3 The above rates of rebate and surcharge against different time period are applicable from the month of April, 2013.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

- 6.3.8 For short term supply, emergency supply and for supply of construction power, there shall be no rebate or surcharge for load factor and power factor.
- 6.3.9 Delayed payment surcharge shall be applicable as per regulation 4.14 of the Tariff Regulations.
- 6.3.10 All existing charges relating to meter rent, meter testing, meter replacement, disconnection and reconnection etc. shall continue.
- 6.3.11 A consumer opting for pre-paid meter shall not be required to make any security deposit for the energy charge.
- 6.3.12 All statutory levies like electricity duty or any other taxes, duties etc. imposed by the State Govt. / Central Govt. or any other competent authority shall be extra and shall not be a part of the tariff determined under this tariff order.
- 6.3.13 All the rates and conditions of tariff are effective for the year 2013 - 2014. Adjustments, if any, for over recovery / under recovery for the period 01.04.2013 to 31.03.2014 from the energy recipient shall be made in 10 (ten) equal monthly instalments through energy bills for October, 2015 onwards.
- 6.3.14 The rates mentioned in Annexures 6A1 & 6A2 exclude the Monthly Variable Cost Adjustment (MVCA) or Adhoc FPPCA / or FCA, if any, as realized by DVC. Against such rate while adjustment will be done as per paragraph 6.3.13, then the MVCA realized, if any, against the consumption within the period 01.04.2013 to 31.03.2014 shall also be considered as realization against above mentioned tariff rates of 2013 - 2014 as shown in Annexures 6A1 & 6A2 and accordingly adjustment is to be done as mentioned in paragraph 6.3.13.
- 6.3.15 In addition to the tariff determined under this tariff order, DVC will be further entitled to additional sums towards enhanced cost of fuel and power purchase, if any, after the date from which this tariff order takes effect. Thus DVC shall



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

compute the energy charge rate for their own generating stations as per formula given in CERC Tariff Regulations for any change in fuel price after the date of effect of this order and shall adjust the same in the adjustment to be made as per paragraph 6.3.13. The generation cost for own generating stations and power purchase cost are subject to adjustment in accordance with the Tariff Regulations on the basis of tariff order to be passed by the CERC for the period 2013 – 2014.

6.3.16. Any variation in fixed charges for the generating units of DVC, both existing and new units and the fixed cost for transmission and distribution systems of DVC cost of which have not yet been determined by CERC for the period 2013 – 2014 shall be adjusted in future tariff as per provisions of the Tariff Regulations of the Commission after determination of the same by CERC. Any variation in power purchase cost shall be adjusted in MVCA.

6.3.17. For any pre-paid and TOD tariff scheme, other charges shall be the charges applicable to consumers under respective category of non-TOD tariff.

6.3.18. An applicant for short term supplies through pre-paid meter shall have to comply with all necessary formalities for obtaining supply including payment in accordance with the Regulations made by the Commission. The same will be subject to the following conditions:

- i. Provision of requisite meter security deposit, to be kept with the licensee;
- ii. Provision of space for installing weather-proof, safe and secure terminal services apparatus to protect sophisticated meter; and
- iii. Availability of prepaid-meter of appropriate capacity

6.3.19. To avail Rate - D(1) for street lighting the supply should be metered and all the street lights under the same meter shall be illuminated with LED. For mixed type of street lights under one meter Rate – D(6) shall be applicable.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

- 6.3.20. The existing time strata for TOD meter shall continue.
- 6.3.21. Any matter, which has not been explicitly mentioned in this order, shall be guided by regulations 2.9.8 and 2.9.9 of the Tariff Regulations.
- 6.4 The tariffs determined under this order for different categories of consumers are the maximum ceilings for supply of electricity at any agreed price to the consumers of DVC only for those areas of supply of DVC in West Bengal where multiple licensees exist. However, in this case if supply is provided to a consumer at a price lesser than the upper ceiling, and as a result the licensee incurs loss, such loss shall not be allowed to be passed on to any other consumers or any other distribution licensees under purview of the Commission.
- 6.5 The Commission has given some directions to DVC on different issues which are in Chapter – 7 of this order.
- 6.6 It is open to the State Government to grant any subsidy to any consumer or any class of consumers in the tariff determined by the Commission for DVC. If at all any such subsidy under the provisions of the Act is intimated to DVC and to the Commission by the Government of West Bengal with clear indication of the consumer or class of consumers to be subsidized and the amount of the subsidy proposed to be given is paid in advance, the tariff of such consumer and / or the class of consumers shall be deemed to have been reduced accordingly as has been indicated by the State Government. However, such direction of the State Government shall not be operative till the payment is made by the State Government in accordance with the provisions of the Act and the Regulations made thereunder, and the tariff as fixed by the Commission shall remain applicable. In accordance with the Tariff Regulations, the State Government is required to communicate within 15 days from the date of receipt of a tariff order, whether it shall give any subsidy to any group of consumers etc.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

- 6.7 DVC shall present to the Commission a gist of this order showing salient features of tariff / tariffs within three working days from the date of receipt of this order for approval of the Commission and on receipt of the approval shall publish the approved gist in terms of regulation 2.9.6 of the Tariff Regulations within four working days from the date of receipt of the approval of the Commission.



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme											
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II						
							Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon		
1.	Lifeline (Domestic)	D (LL)	Normal	All Units	238	5	Not Applicable					Not Applicable						
2.	Domestic	D(L)	Normal	All Units	475	10	D(Lpp)	Prepaid	All Units	465	10	Not Applicable						
3.	Commercial	C(L)(ia)	Normal	All Units	475	20	C(Lt)(ia)	Normal TOD	06.00 hrs to 17.00 hrs	All units	465	20	C(Ltp)(ia)	Prepaid - TOD	06.00 hrs to 17.00 hrs	All units	460	20
								17.00 hrs to 23.00 hrs.	All units	511					17.00 hrs to 23.00 hrs.	All units	506	
								23.00 hrs to 06.00 hrs	All units	390					23.00 hrs to 06.00 hrs	All units	392	



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme										
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II				
				Consumer category	Name of the Tariff Scheme			Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	
4.	Irrigation	Rate C(at)	Normal TOD	06.00 hrs to 17.00 hrs	All units	400	20	Rate C(atpp)	Pre-Paid TOD			06.00 hrs to 17.00 hrs	All units	390	20	Not Applicable	
				17.00 hrs to 23.00 hrs.	All units	772				17.00 hrs to 23.00 hrs.	All units	752					
				23.00 hrs to 06.00 hrs	All units	260				23.00 hrs to 06.00 hrs	All units	253					
5.	Commercial Plantation	Rate A(Cm-Ptpp)	Prepaid- TOD	06.00 hrs to 17.00 hrs	All units	475	40	Not Applicable					Not Applicable				
				17.00 hrs to 23.00 hrs.	All units	701											
				23.00 hrs to 06.00 hrs	All units	285											



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme						
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I			Optional Tariff Scheme - II		
								Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category
6.	Short Term Irrigation Supply	Rate C (stppt)	Prepaid- TOD	06.00 hrs to 17.00 hrs	All units	444	20	Not Applicable			Not Applicable		
				17.00 hrs to 23.00 hrs.	All units	856							
				23.00 hrs to 06.00 hrs	All units	287							
7.	Short Term supply for Commercial Plantation	Rate A (Cm-StPtp)	Pre-paid TOD	06.00 hrs to 17.00 hrs	All units	485	40	Not Applicable			Not Applicable		
				17.00 hrs to 23.00 hrs.	All units	936							
				23.00 hrs to 06.00 hrs	All units	315							



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme												
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II						
				Consumer category	Name of the Tariff Scheme			Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon				
8.	Short-term Supply	Rate STLT	Prepaid - TOD	06.00 hrs to 17.00 hrs	All units	485	40	Not Applicable					Not Applicable						
				17.00 hrs to 23.00 hrs.	All units	533													
				23.00 hrs to 06.00 hrs	All units	451													
9.	Government School, Government aided School or Government Sponsored School	Rate GS(L)	Normal	On all Units		450	20	Rate GS(L)T	Normal - TOD	06.00 hrs. - 17.00 hrs. & 20.00 hrs - 23.00 hrs.	All units	440	20	Not Applicable					
										17.00 hrs to 20.00 hrs.	All units	484							
										23.00 hrs to 06.00 hrs	All units	427							
10.	Public utility/ Specified Institution/ Public Bodies Municipal or Non-Municipal	Rate PU(LT)	Normal	On all Units		470	20	Rate PUpp (LT)	Prepaid	On all Units		460	20	Rate PUppt (LT)	Prepaid TOD	06.00 hrs. - 17.00 hrs. & 20.00 hrs - 23.00 hrs.	All units	450	20
																17.00 hrs to 20.00 hrs.	All units	495	
																23.00 hrs to 06.00 hrs	All units	419	



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme									
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II				
							Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh
11.	Cottage Industry / Artisan / Weavers / Small production oriented establishment not run by electricity as motive power	Rate C(L)(ii)	Normal	All Units	464	20	Rate Cppt (L) (ii)	Prepaid - TOD	06.00 hrs - 17.00 hrs	All Units	454	20	Not Applicable			
									17.00 hrs to 23.00 hrs	All Units	499					
									23.00 hrs to 06.00 hrs	All Units	422					
12.	Poultry, Duckery, Horticulture, Tissue culture, Floriculture, Herbal - Medicinal - Bio-diesel Plant Farming, Food Processing Unit	Rate C(L)(ii)	Normal	All Units	474	20	Rate Cppt (L) (iii)	Prepaid - TOD	06.00 hrs to 17.00 hrs	All Units	464	20	Not Applicable			
									17.00 hrs to 23.00 hrs	All Units	510					
									23.00 hrs to 06.00 hrs	All Units	432					



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme									
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II				
							Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh
13.	Public Water Works & Sewerage System	Rate B (II)	Normal	On all Units	464	40	Rate B (II)ppt	Prepaid - TOD	06.00 hrs. – 17.00 hrs. & 20.00 hrs to 23.00 hrs	All Units	454	40	Not Applicable.			
									17.00 hrs to 20.00 hrs.	All Units	635					
									23.00 hrs to 06.00 hrs	All Units	298					
14.	Industry	Rate I(L)	Normal	All Units	474	40	Rate It(L)	Normal - TOD	06.00 hrs to 17.00 hrs	All Units	464	40	Not Applicable.			
									17.00 hrs to 23.00 hrs	All Units	650					
									23.00 hrs to 06.00 hrs	All Units	306					
15.	Street Lighting	Rate D(1)	Normal	On all Units	454	40	Not Applicable					Not Applicable.				
16.	Street Lighting with LED	Rate D(6)	Normal	On all Units	414	40	Not Applicable					Not Applicable.				



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme					Optional tariff Scheme										
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II				
				Consumer category	Name of the Tariff Scheme			Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	
17.	Private Educational Institutions and Hospitals	Rate S (L)	Normal	On all Units		474	40	Rate St (L)	Normal TOD			06.00 hrs to 17.00 hrs	All Units	464	40	Not Applicable.	
										17.00 hrs to 23.00 hrs	All Units	510					
										23.00 hrs to 06.00 hrs	All Units	431					
18.	Emergency Supply	Rate D (2)	Prepaid-TOD	06.00 hrs to 17.00 hrs	On all Units	524	40	Not Applicable					Not Applicable				
				17.00 hrs to 23.00 hrs	On all Units	733											
				23.00 hrs to 06.00 hrs	On all Units	346											



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

Sl No	Type of Consumer	Applicable Tariff Scheme						Optional tariff Scheme							
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II		
				Consumer category	Name of the Tariff Scheme			Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon
19.	Construction Power Supply	Rate D (3)	Prepaid-TOD	06.00 hrs. – 17.00 hrs. & 20.00 hrs to 23.00 hrs	On all Units	474	40	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
				17.00 hrs to 20.00 hrs.	On all Units	663									
				23.00 hrs to 06.00 hrs	On all Units	313									
20.	Co-operative Group Housing Society for providing power to its members or person for providing power to its employees in a single premises	Rate D(4)	Normal	All units	464	20	Rate D(4)t	Normal - TOD	06.00 hrs to 17.00 hrs	All Units	454	20	Not Applicable	Not Applicable	Not Applicable
									17.00 hrs to 23.00 hrs	All Units	499				
									23.00 hrs to 06.00 hrs	All Units	422				



LOW AND MEDIUM VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme						Optional tariff Scheme							
		Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH		Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Optional Tariff Scheme - I					Optional Tariff Scheme - II		
								Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH	Energy Charge P/kWh	Fixed Charge/ Demand Charge * in Rs/ KVA/ mon	Consumer category	Name of the Tariff Scheme	Monthly consumption in KWH
21.	Common Services of Industrial Estate	Rate D(5)	Prepaid - TOD	06.00 hrs. – 17.00 hrs. & 20.00 hrs to 23.00 hrs	On all Units	464	40	Not Applicable					Not Applicable		
				17.00 hrs to 20.00 hrs.	On all Units	650									
				23.00 hrs to 06.00 hrs	On all Units	306									

Note :- * Fixed Charge will be applicable for the Consumer having Contract Demand below 50 KVA and Demand Charge will be applicable for the consumer having Contract Demand of 50 KVA and above.



HIGH & EXTRA HIGH VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme							Optional Tariff Scheme							
		Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)	Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)	
					P/kWh							P/kWh				
					Summer	Monsoon	Winter					Summer	Monsoon	Winter		
1.	Public Utility	Rate PU (H)	Normal	All Units	434	431	428	320	Rate PU (Ht)	Normal - TOD	06.00 hrs-17.00 hrs & 20.00 hrs to 23.00 hrs	All Units	424	422	420	320
											17.00 hrs-20.00 hrs	All Units	509	506	504	
											23.00 hrs-06.00 hrs	All Units	360	359	357	
2.	Industries (11 KV)	Rate I-1 (H)	Normal	All Units	440	438	436	320	Rate I (Ht)	TOD	06.00 hrs-17.00 hrs	All Units	430	428	426	320
											17.00 hrs-23.00 hrs	All Units	516	514	511	
											23.00 hrs-06.00 hrs	All Units	366	364	362	
3.	Industries (33 KV)	Rate I-2 (H)	Normal	All Units	416	414	412	320	Rate I-2 (Ht)	TOD	06.00 hrs-17.00 hrs	All Units	408	406	404	320.
											17.00 hrs-23.00 hrs	All Units	490	487	485	
											23.00 hrs-06.00 hrs	All Units	347	345	343	
4.	Industries (132 KV)	Rate I-3 (H)	Normal	All Units	408	406	404	320	Rate I-3 (Ht)	TOD	06.00 hrs-17.00 hrs	All Units	400	398	396	320.
											17.00 hrs-23.00 hrs	All Units	480	478	475	
											23.00 hrs-06.00 hrs	All Units	340	338	337	
5.	Industries (220 KV and above)	Rate I-4 (H)	Normal	All Units	392	390	388	320	Rate I-4 (Ht)	TOD	06.00 hrs-17.00 hrs	All Units	384	382	380	320.
											17.00 hrs-23.00 hrs	All Units	461	458	456	
											23.00 hrs-06.00 hrs	All Units	326	325	323	



HIGH & EXTRA HIGH VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme							Optional Tariff Scheme								
		Customer category	Name of the Tariff Scheme	Consumption per month in KWH		Energy Charge			Demand Charge (Rs./KVA/month)	Customer category	Name of the Tariff Scheme	Consumption per month in KWH		Energy Charge			Demand Charge (Rs./KVA/month)
						P/kWh								P/kWh			
						Summer	Monsoon	Winter						Summer	Monsoon	Winter	
6.	Community Irrigation/ Irrigation	Rate AI (H)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	429	425	421	50	Not Applicable							
				17.00 hrs-23.00 hrs	All Units	857	849	841									
				23.00 hrs-06.00 hrs	All Units	258	256	253									
7.	Commercial Plantation	Rate S (cp)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	454	451	449	320	Not Applicable.							
				17.00 hrs-23.00 hrs	All Units	635	631	628									
				23.00 hrs-06.00 hrs	All Units	299	297	296									
8.	Short Term Irrigation Supply	Rate S (stis)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	444	439	434	50	Not Applicable.							
				17.00 hrs-23.00 hrs	All Units	614	604	594									
				23.00 hrs-06.00 hrs	All Units	267	264	261									
9.	Short Term Supply for Commercial Plantation	Rate S(stcp)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	464	462	460	320	Not Applicable.							
				17.00 hrs-23.00 hrs	All Units	649	647	644									
				23.00 hrs-06.00 hrs	All Units	279	277	276									
10.	Commercial	Rate C (H)	Normal	All Units	444	441	438	320	Rate C (Ht)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	434	429	424	320	
											17.00 hrs-23.00 hrs	All Units	521	515	509		
											23.00 hrs-06.00 hrs	All Units	369	365	360		
11.	Domestic	Rate D (H)	Normal	All Units	464	461	458	50	Rate D (Ht)	Normal - TOD	06.00 hrs-17.00 hrs	All Units	454	448	442	50	
											17.00 hrs-23.00 hrs	All Units	499	493	486		
											23.00 hrs-06.00 hrs	All Units	422	417	411		



HIGH & EXTRA HIGH VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme							Optional Tariff Scheme						
		Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)	Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)
					P/kWh							P/kWh			
					Summer	Monsoon	Winter					Summer	Monsoon	Winter	
12.	Public Water Works & Sewerage	Rate PWW (H)	Normal	All Units	434	430	426	320	Rate PWW(Ht)	Normal - TOD	06.00 hrs-17.00 hrs & 20.00 hrs to 23.00 hrs All Units	424	419	414	320
										17.00 hrs-20.00 hrs All Units	594	587	580		
										23.00 hrs-06.00 hrs All Units	280	276	273		
13.	Sports Complex & Auditorium run by Govt./ local bodies for cultural affairs	Rate S (c)	Normal	All Units	464	454	444	50	Not Applicable.						
14.	Cold storage or Dairy with Chilling Plant	Rate S (pi)	Normal	All Units	434	429	424	320	Rate S (pit)	Normal - TOD	06.00 hrs-17.00 hrs All Units	424	418	412	320
										17.00 hrs-23.00 hrs All Units	509	502	494		
										23.00 hrs-06.00 hrs All Units	360	355	350		
15.	Emergency Supply	Rate E (em)	Normal - TOD	06.00 hrs-17.00 hrs All Units	528	526	524	320	Not Applicable.						
				17.00 hrs-23.00 hrs All Units	739	736	734								
				23.00 hrs-06.00 hrs All Units	349	348	346								
16.	Construction Power Supply	Rate E (con)	Normal - TOD	06.00 hrs-17.00 hrs & 20.00 hrs to 23.00 hrs All Units	476	474	472	320	Not Applicable.						
				17.00 hrs-20.00 hrs All Units	666	663	661								
				23.00 hrs-06.00 hrs All Units	440	438	436								



HIGH & EXTRA HIGH VOLTAGE CONSUMERS

TARIFF FOR 2013 - 2014

SI No	Type of Consumer	Applicable Tariff Scheme							Optional Tariff Scheme						
		Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)	Customer category	Name of the Tariff Scheme	Consumption per month in KWH	Energy Charge			Demand Charge (Rs./KVA/month)
					P/kWh							P/kWh			
					Summer	Monsoon	Winter					Summer	Monsoon	Winter	
17.	Co-operative Group Housing Society for providing power to its members or person for providing power to its employees in a single premises	Rate S (co)	Normal	All Units	474	470	466	50	Rate S (cot)	Normal - TOD	06.00 hrs-17.00 hrs All Units	464	459	454	50
											17.00 hrs-23.00 hrs All Units	510	505	499	
											23.00 hrs-06.00 hrs All Units	475	469	464	
18.	Common Services of Industrial Estate	Rate - E (ict)	Normal - TOD	06.00 hrs-17.00 hrs & 20.00 hrs to 23.00 hrs All Units	427	424	421	320	Not Applicable						
				17.00 hrs-20.00 hrs All Units	512	594	589								
				23.00 hrs-06.00 hrs All Units	363	280	278								
19.	Traction	Rate T	Normal	All Units	407	405	402	320	Not Applicable						
20.	Short-term Supply	Rate S (ST)	Normal - TOD	06.00 hrs-17.00 hrs All Units	528	526	524	320	Not Applicable						
				17.00 hrs-23.00 hrs All Units	650	647	644								
				23.00 hrs-06.00 hrs All Units	307	305	303								
21.	Private Educational Institutions	Rate E (ei)	Normal	All Units	444	441	438	320	Rate E(ei)	Normal - TOD	06.00 hrs-17.00 hrs All Units	434	428	422	320
											17.00 hrs-23.00 hrs All Units	477	470	464	
											23.00 hrs-06.00 hrs All Units	444	438	432	



CHAPTER – 7 DIRECTIVES

- 7.1 The Commission in the tariff order dated 25.05.2015 in respect of DVC in case no. TP-57/13-14 had given certain directives to DVC which are required to be complied with by DVC. DVC shall positively submit its compliance report to the Commission by 15th September, 2015, if not in the meantime furnished by them. The Commission now gives further directives in this chapter which are also required to be complied with by DVC.
- 7.2 In order to reduce the impact in FPPCA henceforth while applying the formula of MVCA the component of adjustment Δ_{Adj} shall be duly applied by finding out the deviation in recovery of variable cost from sale side computation for the period concerned in pursuance to note (a) under paragraph A of the Schedule – 7B of the Tariff Regulations.
- 7.3 DVC is directed to take initiatives for energy conservation to flatten the load curve in the following ways:
- i) by retrofitting conventional light with two 12W LED lamp / LED tube light scheme; and
 - ii) by arranging load management awareness programme for the consumers.

DVC shall also take initiative in development of roof top solar PV and other renewable sources of energy.

DVC shall submit their plan within forty five (45) days from the date of this order regarding –



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

- i) replacement of bulb / tube by LED lamp / tube primarily in residential complexes which shall be extended to commercial complexes, street light, institutions, hospitals, etc in stages;
- ii) installation of roof top solar panel in residential and commercial complexes, institutions, hospitals, etc. and gradual increase in use of renewable energy, biomass, wind, cogeneration within the ambit of the Regulations of the Commission.

If any support from the Commission is required in this regard, the same may also be informed while submitting the proposal on the above aspects.

7.4 DVC shall also submit the followings within one month from the date of this order:

- i) Detailed project report on account of High Voltage Distribution System, Smart Metering, Prepaid Metering and for switching over to smart grid in future;
- ii) Segregation of assets in both financial and physical terms for wire and supply function. Meter assets is to be given separately; and
- iii) The present ERP programme and the future target keeping in mind the improvement in efficiency, professional management and introduction of best practices.

7.5 DVC along with their APR application for the year 2014 – 2015 shall submit through affidavit a declaration that 100% supply of power to consumers are through meter only and no power is supplied through unmetered connection.



Tariff Order of DVC for the years 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013- 2014

7.6 DVC shall also submit within 1 (one) month from the date of this order matrix wise consumption and AT&C losses for each segment as below.

Voltage level	Semi-Urban		Urban		City	
	consumption (MU)	AT&C loss (%)	consumption (MU)	AT&C loss (%)	consumption (MU)	AT&C loss (%)
132 KV and above						
33 KV						
11 KV						
L&MV						

7.7 DVC shall submit application of Annual Performance Review (APR) for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 as per the provisions of the Tariff Regulations, 2011 and also on the basis of subsequent order of CERC. DVC shall also submit details of revenue recovered from the consumers in West Bengal area for sale of electricity for the years 2009 – 2010, 2010 – 2011, 2011 – 2012, 2012 – 2013 and 2013 – 2014 with auditor's certificate.

Sd/-
(A. BISWAS)
MEMBER

Sd/-
(S. DASGUPTA)
MEMBER

DATE: 24.08.2015