WEST BENGAL
STATE ELECTRICITY
TRANSMISSION COMPANY LIMITED

WBSETCL

VOLUME-1

TARIFF PETITION FOR THE YEAR 2014-15, 2015-16 & 2016-17

Submitted to the

HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

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भारत INDIA

INDIA NON JUDICIAL

NOTARIAL NOTARIAL

पश्चिमबङ्गा पश्चिम बंगाल WEST BENGAL

R 648477

B. N. SAHA NOTARY 23/2002

BEFORE THE NOTARY PUBLIC

BEFORE THE HONOURABLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

Filing No. _____

Case No. _____

IN THE MATTER OF: Petition for determination of Tariff/ charges for transmission of electricity during the year 2014-15, 2015-16 & 2016-17 sought by the West Bengal State Electricity Transmission Company Limited ["WBSETCL"] in accordance with the provisions stipulated in the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended.

And

IN THE MATTER OF: West Bengal State Electricity Transmission Company Limited, Vidyut Bhavan, Block DJ, Sector – II, Bidhannagar, Kolkata – 700 091.

B. N. SAHA NOTARY Bikash Bhavan North Block, Gr. Floor Bidhannagar, Kolkata West Bengal

(P. K. Sengupta)
Addl. Chief Engineer,
Regulatory Affairs Cell,
WBSETCL
Vidyut Bhavan, Kol-91

29 JAN 2014

21 JAN 2014

NO. 214 VALUE 100

DATE

SOLD TO

Add

SIGNATURE OF STAMP VENDOR

SRI PRASANTA CHATTERJEE
GOVT. LICENSED STAMP VENDOR
SEALDAH CIVIL COURT
KOLKATA-700014

WBSETCL
Vidyut Bhavan
Salt Lake
no - 91.

I, Sri Pulak Kumar Sengupta, son of Late Santosh Kumar Sengupta, aged 59 years and 4 months residing at 10, Bansdroni Govt. Colony, Kolkata –700070 do solemnly affirm and say as follows:

1. I am the Addl. Chief Engineer, Regulatory Affairs Cell of the West Bengal State Electricity Transmission Company Limited, petitioner in the above matter, and am duly authorized by the said petitioner to make this affidavit for and on its behalf.

2. The Statements made in petition herein now shown to me and marked with the letter "A" are true to my knowledge and based on information received and are true to my belief and nothing material has been concealed from the statements so made, or documents or supporting data, etc., attached.

Solemnly affirmed at Kolkata on this 29th day of January 2014 that the contents of this affidavit are true to my knowledge, no part of it is false or nothing material has been concealed there form and misleading material included therein.

(P. K. Sengupta)
Addl. Chief Engineer,
Regulatory Affairs Cell,
WBSETCL
Vidyut Bhavan, Kol-91
Deponent

Place:
Date:

Solemnly Affirmed
&
Declared Before me
as Identification of Advocate

B. N. SAHA
Notary
29 JAN 2014

Identified by me

Advocate

B. N. SAHA
NOTARY
Bikash Bhavan
North Block, Gr. Floor
Bidhannagar, Kolkata
West Bengal

A

BEFORE THE HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

B. N. SAHA NOTARY 23/2002

Filing No. _____

Case No. _____

In the matter of: Petition for determination of Tariff/ charges for transmission of electricity during the year 2014-15, 2015-16 & 2016-17 sought by the West Bengal State Electricity Transmission Company Limited ["WBSETCL"] in accordance with the provisions stipulated in the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended.

AND

In the matter of: West Bengal State Electricity Transmission Co. Limited, Vidyut Bhavan, Block – DJ, Bidhannagar Sector II, Kolkata 700 091

1. The West Bengal State Electricity Transmission Company Limited, hereinafter referred to as "WBSETCL" is a State Electricity Transmission Company constituted on 1st April, 2007 from erstwhile West Bengal State Electricity Board according to the "West Bengal Power Sector Reforms Transfer Scheme, 2007" of Government of West Bengal made under sub-section (4) of section 131 of the Electricity Act, 2003 and has now become a Licensee under the Electricity Act, 2003 engaged in the business of transmission and load despatch of electricity.

2. This application for determination of tariff / charges for transmission of electricity by WBSETCL is filed before the Hon'ble West Bengal Electricity Regulatory Commission, hereinafter referred to as Hon'ble Commission, in accordance with provisions stipulated in West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 read with directives given by the Hon'ble Commission In Case NO. SM-7/13-14 dated 19.07.2013 and Commission's Order dated 31.12.2013.

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3. Revenue from transmission of energy for the year 2014-15, 2015-16, 2016-17, have been computed on the basis of total expenditure to be incurred by the WBSETCL in that year for transmission of energy.

4. The filing, in pursuance of Section 2.7 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011, hereinafter referred to as "the Tariff Regulations, 2011" is for the purpose of determination of transmission charges for the year 2014-15, 2015-16 & 2016-17 based on the revenue expenditure estimated for the said years.

BASIC PREMISE IN FRAMING THE PROPOSAL:

5. The WBSETCL has undertaken the construction of new EHV sub-station and lines besides augmentation of capacity of existing EHV lines sub-stations & other schemes for meeting the increased infrastructure requirement of transmission of power in the state.

6. Technical Loss in transmission system of WBSETCL has been considered as 3.40% in line with the provisions made for the year 2014-15, 2015-16 & 2016-17 in the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended from time to time.

SUMMARISED REVENUE REQUIREMENT:

7. Total summaries revenue requirement of WBSETCL for the year 2014-15, 2015-16, 2016-17 has been estimated at Rs **118813.89** Lakhs, Rs. **140707.72** Lakhs and Rs. **152445.10** Lakhs, respectively. The allocated transmission capacity during the year 2014-15, 2015-16 & 2016-17 have been estimated as 5370 MW, 5690 MW & 6011 MW respectively. The transmission charge in Rupees per MW per Month has been computed at Rs. **184379.10/-**, Rs. **206074.57/-** and Rs. **211341.84/-** for 2014-15, 2015-16 and 2016-17 respectively.

   The detailed cost estimates under different heads and summarised revenue requirement forms are furnished in the data forms annexed hereto.

(P. K. Sengupta)
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A

PRESENTATIONS :

8. The Proposal is in three (3) volumes, as listed below:

Vol.	*Description*
I	Detailed Tariff Proposal
II	Data filing formats as prescribed by the Hon'ble Commission
III	Copies of Annual Report and Accounts of WBSETCL

9. The WBSETCL confirms that the present filing has been discussed and approved by the Directors of the WBSETCL.

10. The WBSETCL has made every effort to meet the information requirements prescribed by the Hon'ble Commission. Notwithstanding the same, the WBSETCL however agrees to make available any further information, as and when asked for by the Hon'ble Commission.

PRAYER TO THE HON'BLE COMMISSION:

11. The WBSETCL humbly prays to the Hon'ble Commission to:

(a) Accept the accompanying proposal for determination of tariff/charges for transmission of electricity by WBSETCL.

(b) Pass orders as the Hon'ble Commission may deem fit and proper keeping in mind the facts and circumstances of the case.

(P. K. Sengupta)
Addl. Chief Engineer,
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1.0 INTRODUCTION

The West Bengal State Electricity Transmission Company Limited (WBSETCL) commenced functioning with effect from 1st April 2007 on restructuring of the erstwhile West Bengal State Electricity Board (WBSEB) in terms of the West Bengal Power Sector Reforms Transfer Scheme, 2007, notified vide Notification No. 12-PO/O/III/3R-29/2006 dated 25th January 2007 by the State Government in exercise of the powers conferred on it under Section 131 (4) of The Electricity Act, 2003. In accordance with such scheme, the transmission and State Load Despatch unit of the erstwhile WBSEB was transferred to WBSETCL.

2.0 ASSESSMENT OF ENERGY TRANSMITTED BY WBSETCL

2.1 Presently, West Bengal State Electricity Distribution Co. Ltd. (WBSEDCL) is the sole long term user of the transmission network of WBSETCL and other agencies utilize the transmission system on short term basis as per their requirement. The total transmission of energy during the Fourth Control Period of 2014-15 to 2016-17 by WBSETCL has accordingly been projected on the basis of the energy purchased/proposed to be purchased by WBSEDCL at 400/220/132 kV to meet the energy requirements during the said control period.

2.2 Power purchased from all State and Central Sector generating stations as well as private sector generating companies having Power Purchase Agreements with WBSEDCL are to be transmitted through the transmission system of WBSETCL. In addition to the, above existing and proposed power generation from Hydel Power Stations and the Purulia Pumped Storage Project of WBSEDCL are also interconnected with the state transmission system.

2.3 Availability of power in the WBSEDCL system has been considered after allowing for a normative transmission loss of 3.40 %, as laid down under the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011, as amended to date.

3.0 SUBMISSIONS ON ANNEXURE 1 FINANCIAL DATA

The following are the brief submissions on the Financial Data provided in Annexure I.

3.1 Form 1.13

3.1.1 Expenses under the head Consumption of Stores, Repairs & Maintenance, Telephones and Other Management & Administrative Expenses have been projected for the period 2013-14 to 2016-17 on the basis of the 3 year CAGR of actual expenses incurred till 2012-13.

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3.1.2 Employee Costs have been projected on the basis of the approved manning pattern for the various operational units of the Company and after taking into account future retirements and planned recruitments in the future. Normal increments and anticipated increases in Dearness Allowance have been taken into account in estimating the projected expenses on this head. In the absence of segregation of employee costs between operational and non-operational staff, it has not been possible to provide breakup of the same in Form 1.13. However, the necessary break-up for all employees of the Company have been provided in the prescribed format in Form 1.17 (h).

3.1.3 Element of DA has been considered in line with the Wholesale Price Index and the Employees cost has been estimated considering average rate of D.A. as 108%, 118% and 128% for 2014-15, 2015-16 and 2016-17, respectively. With regard to Overtime payments, the Petitioner states that overtime is allowed only to technical staffs who are engaged to attend emergency breakdown beyond normal hours particularly to minimise the period of interruption and that too is done in public interest. Disallowance of such payments would severely affect the quality of supply and hence it is petitioned that Overtime expenses may be allowed as estimated.

3.1.4 In the absence of segregation of retirement benefit costs for operational and non-operational personnel, the retirement benefit costs of all employees of the Company have been included in Form 1.17.

3.1.5 Employee Costs shown in Forms 1.13 and 1.17 in the different years are net of Capitalised Employee Costs as per details shown in Form 1.17 (h).

3.2.0 Depreciation

Details of assets on which depreciation has been provided appear in Form B for the respective years.

3.3.0 Form 1.17

3.3.1 Expenditures on the heads of Rent, Repairs & Maintenance, Travelling, Telephone & Telex and General Establishment Charges have been projected for the period 2013-14 to 2016-17 on the basis of CAGR of the actual expenses incurred for the 3 year period ending 2012-13.

3.3.2 Estimated amount of Rates & taxes for 2013-14 includes a sum of around Rs. 100 lakhs towards payment of arrear tax demand for the Asansol 220KV substation. Pending ascertainment and compilation of a data base of the rates and taxes due for the

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various establishments of the Company and the possibility of such taxes being in arrears for some of the properties, Rates & Taxes payable during the period 2013-14 to 2016-17 has been projected with an annual increase of 10 % over a base tax outgo of Rs 120 lakhs anticipated in 2013-14.

3.3.3 Details of computation of Interest on Capital Expenditure Loans and Bonds for each of the years from 2009-10 to 2016-17 have been provided in Form C for the relevant years. The interest expense included in Form 1.17 is net of capitalized interest.

3.3.4 The Company incurred interest on Temporary Accommodation for a part of the year in 2012-13 and 2013-14 due to delay in approval of revised tariffs, due from 2011-12. Details of such interest claims are provided in Form 1.17 (a).

3.3.5 Pursuant to Regulation 5.6.5 of the West Bengal Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2011 ("the Tariff Regulations, 2011), interest on working capital has been claimed for the years 2011-12 to 2013-14 on the basis of calculations provided in Form 1.17 (b). The Company has observed that apart from some months where there is a particularly large debt service outgo, it is not required to draw the cash credit limit availed of from banks to the full extent in most months. Even in such months where the cash credit limit is utilised to the maximum, the usage decreases on receipt of transmission charges from WBSEDCL and/or receipt of loan disbursements on capital account from lenders. WBSETCL has accordingly computed the allowable interest on working capital on the basis of certain assumptions on the likely usage of the cash credit facility in future years.

3.3.6 Details of Other Finance Charges have been provided for the respective years in Form 1.17 (c). The Company proposes to issue bonds for further amounts of Rs 3500 lakhs in 2014-15, Rs. 6000 lakhs in 2015-16 and Rs. 16500 lakhs in 2016-17 in order to part finance anticipated capital expenditure in those years, against which, Arranger's Fee will be payable to the Arranger. Other Finance Charges accordingly includes such Arranger's fee payable @ 0.5 % on the amount proposed to be raised through Bonds and applicable service tax thereon.

3.3.7 Consultancy fees incurred in 2013-14 were on account of Consultancy Services utilised for assessing applicability of Service Tax on different transactions of the Company due to changes in the Finance Act, 2012 relating to Reverse Charge Mechanism, retainer fees for Direct and Indirect Tax Consultants etc. Taking into consideration requirement of external help from experts in various technical and managerial fields on an ongoing basis in future years as well, expenditure on this head during the control period has been

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projected on the basis of the CAGR of actual expenses incurred during the three year period ended 31.3.2013 .

3.3.8 The requirement of audit under various statutes and requirement of Auditors' Certificates has increased manifold over the years. While the audit fees of the statutory auditor under the Companies Act is approved by the CAG of India, such fees for other services are determined on the basis of the nature of the job and degree of involvement required. Tabulated below are the Audit and Certification Fees of various types paid by the Company in the last two years. It may be noted that apart from annual audit of accounts, limited review of such accounts and quarterly audit of the same has also become a requirement under the listing agreement with the Mumbai Stock Exchange for the issue of Bonds. In addition, Cost Audit, Tax Audit under the Income Tax Act, Service Tax audit, and VAT audit are also statutory requirements which need to be complied with each year.

Apart from the above, the Company had adopted (March 2008) an Internal Audit Charter that sought to bring about a systematic approach to evaluation and suggest improvements to the effectiveness of the Company's processes. In this context it is to be mentioned here that from 01/04/2007 erstwhile WBSEB was unbundled into WBSEDCL and WBSETCL and following reorganization of the organization structure in August 2010, there are at present 110 numbers of Auditable Units under the purview of internal audit the number of auditable units varies from year to year in some cases due to merger of existing units with other units or setting up of new offices due to operational exigencies.

The number of units covered under internal audit have been maintained at above 75% from 2010-11 onwards and technical audit scope has also been considerably increased from 2012-13. Accordingly, the same has been outsourced to professional firms in absence of adequate manpower.

In view of the above and also taking into consideration inflationary pressure on such fees, Auditors Fees and Expenses have been projected to increase by 10 % per annum over the actual outgo on this head in 2012-13.

Rs. Lakhs

Nature of Audit/Service	2011-12	2012-13
Statutory Audit Fees and Expenses	7.27	7.02
Internal Audit Fees and Expenses	18.04	19.12
Out of Pocket Expenses of Auditors	6.64	8.56
Cost Audit Fee	0.70	1.01
Tax Audit Fee	0.44	0.79
Other Audit Fees	3.70	18.89
Total	**36.79**	**55.39**

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Other Audit Fees in 2012-13 includes fees for Stock Verification carried out at all the Company's stores by external auditors.

3.3.9 WBSETCL has, since its inception, generally arranged for security of its establishments through hire of personnel from security agencies or through deployment of home guards by district administration against payment for such services. Security services are hence exclusively of an outsourced nature for WBSETCL and payments for the same are made on the basis of the State Government mandated daily wage rates along with statutory benefits like provident fund, gratuity, leave pay, etc., together with a mark-up for the security agency and service tax thereon.

3.3.10 Similarly, the pool of motor vehicles utilized by WBSETCL for maintenance and general services are almost exclusively undertaken through hired motor vehicles from third parties. Payments for such services are made at the approved rates and include reimbursement of cost of fuel and lubricants.

3.3.11 Both the above services being outsourced in nature, they are separately indicated in Form 1.17 (k). Projected expenses for Security Services for the Control Period have been made on the basis of CAGR of the past three year period ending 31.3.2013, keeping in view likely increases in base wages and dearness allowance in future years. Taking into consideration likely increase in fuel and lubricant prices and hire charges, in making projections for the Control Period, an annual increase by 10 % has been assumed over the estimated expenditure on this head during 2013-14.

3.3.12 Employee Costs have been projected on the same basis as has been explained in paragraph 2.1.3 and 2.1.4 hereinabove. Breakup of the employee costs for all regular and contractual employees of the Company for the relevant years have been provided in the format prescribed under Form 1.17 (h).

3.3.13 Terminal Benefits comprise of the following:

The Company has constituted independent Trusts for Company Provident Fund, Gratuity Fund and Pension Fund during the year 2010-11 and applied for the income tax exemption of the Gratuity Fund and Pension Fund to the appropriate authorities, which is pending. The Provident Fund, having been constituted under the provisions of the Provident Fund Act of 1925, does not require any separate tax exemption or recognition from the Income Tax authorities. The Company transfers to the constituted Trusts for Pension and Gratuity on a yearly basis the additional actuarial liability accruing in the previous financial year. In the case of the Company Provident Fund Trust the contributions made by the members are transferred to the Provident Fund Trust on a monthly basis. The liability on account of Terminal Benefits payable for the years 2013-14 to 2016-17 has been arrived at on the basis of estimated company's contribution towards Provident Fund @ 12% of Basic plus DA for new recruitments and 15% of Basic plus DA

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as per the rate determined by the Actuary for F.Y. 2012-13 in respect of employees covered under Death Cum Retirement Benefit Scheme of the Company.

3.3.14 It may be noted that for the employees of the Company who are on deputation from West Bengal State Electricity Distribution Co. Ltd. (WBSEDCL), the liability towards pension, gratuity and leave encashment as at the end of each year is paid to WBSEDCL on the basis of demands raised by it after actuarial valuation of the liability has been ascertained. Under the Government Order, employees of WBSEDCL on deputation to WBSETCL and/or other employees of WBSEDCL are to be given an option to have their services transferred to WBSETCL from 1.4.2014. The exact modalities through which such option will be provided and/or transfer of services will take place are yet to be finalized. It may therefore be noted that the liabilities on account of terminal benefits that the Company will be required to bear subsequent to the exercise of the transfer option may differ significantly from the present liability positions, necessitating subsequent revisions of the current projections of terminal benefits for the years 2014-15 to 2016-17.

3.3.15 Basis of computation of Taxes on Income/Profits for the years 2013-14 to 2016-17 is provided in **Annexure A**. Due to substantial unabsorbed depreciation and taxable losses transferred to the WBSETCL at the time of restructuring, the Company was not earning taxable profits in the years till 2013-14 despite earning book profits in all the aforesaid years. As a result of the same, the Company was being required to pay Minimum Alternate Tax (MAT) on book profits till the year 2013-14. However, all such carried forward unabsorbed tax depreciation having been fully adjusted against the taxable profits arising from the year 2014-15 onwards, WBSETCL will be required to pay income tax on its taxable income at the maximum of tax arrived at by applying corporate tax rate (including the surcharge and education and higher education cess) of 33.99 %, on the profits adjusted for income tax depreciation as against the MAT rate of only around 20.0078 % that it was being required to pay on its book profits till the year 2013-14. The outgo on account of income tax has accordingly been considered in arriving at the ARR for the three years of the fourth control period.

3.3.16 License/Filing Fees payable to the Hon'ble Commission have been computed on the basis of the relevant Rules and Regulations and comprise of the following for the years 2014-15 to 2016-17:

Rs Lakhs

Nature of Fee	2014-15	2015-16	2016-17
Annual License Fee	188.76	202.72	215.08
APR Filing Fees	9.44	10.14	10.75
Other Filing Fees	5.00	5.00	5.00
Total	**203.20**	**217.86**	**230.83**

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3.3.17 Interest on Bonds issued for Pension Fund of Rs 27000 lakhs issued by the erstwhile WBSEB has been shown separately in Form 1.17.

3.3.18 Cost of Capital to WBPDCL relates to the cost of the evacuation line from Bakreswar financed by WBPDCL initially and subsequently transferred to the Company, which is payable to WBPDCL in annual instalments in terms of the Hon'ble Commission's Tariff Order dated 01.12.2012 for the year 2013-14 of WBSETCL.

3.3.19 Details of outsourced services have been provided in Form 1.17 (k).

3.3.20 Expenses in Forms 1.13 and 1.17 include under the appropriate heads projected expenses of SLDC during the Control Period, details of which are provided in **Annexure B** for necessary approval of the Hon'ble Commission. Consequent to the above, SLDC Handling Charges of equivalent amounts have been deducted from the Gross Revenue Requirement of each of the years for the purpose of arriving at the Revenue from Transmission Charge in each of the years of the Control Period.

3.4.0 Form 1.18

3.4.1 The Perspective Plan of WBSETCL upto 2016-17 was approved by its Board of Directors in its meeting held on 10.02.2011, and was subsequently revised by the Board in its 30th meeting held on 28.01.2013, when a total project cost of Rs. 5212.86 crores (without IDC) was envisaged to be incurred, based on 4th quarter 2010 prices, based on demand projections till 2016-17.

3.4.2 Based on projected district wise demand of the State, availability of land for substations, rolling plan of WBSETCL has been formulated for the period 2014-15 to 2018-19 after detailed interaction with SLDC, O&M and WBSEDCL, keeping in view the prospective generating units in the State sector and bulk consumers after detailed Power Flow Analysis. The proposed perspective plan was presented before the Chairman cum Managing Director, WBSEDCL, Managing Director, WBSETCL, Technical Directors and Chief Engineers of WBSETCL & WBSEDCL on 31.10.2013 and approved by them.

3.4.3 Following such joint meeting, at its 35th meeting held on 15.11.2013, the Board of Directors of WBSETCL gave the administrative approval to the Rolling Plan of the Transmission System for WBSETCL for the period 2014-15 to 2018-19 at an estimated capital cost of Rs.7099.55 crores, based on 1st quarter 2013 price levels (excluding supervision charges and IDC). It was further resolved that the same be reviewed on a yearly basis and revised on the basis of actual progress of ongoing capital jobs and the emerging power scenario in the State. A copy of the Perspective Plan is attached marked **Annexure C.** WBSETCL hereby seeks the Hon'ble Commission's Investment Approval for the Perspective Plan for the period 2014-15 to 2018-19.

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3.4.4 Based on past experience of ongoing and completed projects, it has been observed that as against a scheduled completion time of 18 months to 22 months for substations, depending on the voltage class, actual completion times vary between 22 months to 30 months due to issues regarding land disputes, court cases, non-availability of clear work front, contractor's work slippage, etc. In the case of transmission lines, the actual completion time is much more and varies between 28 months to 40 months and even more (as against scheduled completion times of between 24 months to 30 months), due to difficulties in arranging ROW, court cases and such unavoidable factors.

3.4.5 Timely implementation of the rolling plan is contingent on three important factors, which are:

(i) timely availability and possession of encumbrance free land required for setting up new substations;

(ii) minimal problems in route selection for new transmission lines and in obtaining ROW during construction of such lines; and,

(iii) availability of eligible and efficient contractors able to carry out such work within time, despite the hurdles faced with regard to (i) and (ii), above.

3.4.6 An analysis of the bids received for ongoing projects reveals that just a limited number of contractors are securing contracts for substation packages based on the competitive prices being offered by them, despite a large number of such contractors being available in the market. Although some new contractors have entered the field in the past few years, their performance has been found to be not up to the mark in the jobs in which they have secured the orders. On the other hand, established contractors already working in WBSETCL on a number of jobs are sometimes found to be unable to deploy resources across jobs in the manner that would enable maintenance of time schedules.

3.4.7 In the case of line packages, the scenario is bleaker, since ROW and the contractors' ability in resolving the same are critical factors in ensuring timely completion of the work. It is observed that following the State administration's minimal intervention in matters related to ROW issues, it is left to the contractor; with some help from the Company's officers, to negotiate and facilitate access to site where construction of towers/stringing is to be undertaken. It is found that very few of the existing contractors undertaking transmission line packages are willing to tender for such packages, possibly because they lack the necessary resources to sort out ROW issues in a timely and efficient manner. It is therefore anticipated that the line packages proposed to be undertaken under the Rolling Plan will suffer from some slippages in the construction/completion or in commencement of work due to non-availability of capable contractors to undertake the same.

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3.4.8 In addition to the new projects proposed to be undertaken under the Rolling Plan, WBSETCL also needs to deploy resources in augmenting its existing substations/lines and/or replace existing plant and equipment which have outlived their useful lives. The Company is also implementing the ULDC Phase II project across its transmission network as well as implementing ERP across the Company. Taking into consideration such additional capital expenditure required to be undertaken, capitalized overheads on such work and interest during construction that will be incurred, it is anticipated that the total equity contribution required to be made will exceed the internal accruals arising on a year to year basis, should the capital expenditure plan as per the Rolling Plan be undertaken.

3.4.9 WBSETCL is aware of the fact that assumptions regarding phasing of expenditure on projects and the assumed completion times play a significant and critical role in determining the tariff that will be payable in the coming years. Taking into consideration the factors mentioned under paragraphs 3.4.4 to 3.4.8, above, the Company considered it prudent to assume a more conservative project implementation and completion schedule in framing the Tariff computations for the Control Period as compared to that envisaged under the Rolling Plan. For such purpose, deviations have been made in the Tariff Petition from the projected expense schedule for transmission projects as per the Rolling Plan, details of which are provided in **Annexure D**.

3.4.10 Considering the fact that scope is provided to the Company through the APR mechanism of the Tariff Regulations to recoup shortfall of revenue occurring during an elapsed year or to refund excess collection of revenue, if any, the Company is of the opinion that in order to avoid undue surges in transmission charges during the Control Period, the tariffs be initially framed on the basis of the reduced capital expenditure, as proposed under Form 1.19 (b). Summary of this expenditure appears in Summary Capex Statement attached as **Annexure E.**

3.4.11 Form 1.18 provides details of Original Cost of Fixed Assets, while Form 1.18 (a) provides the year-wise breakup of Capital Works in Progress in accordance with the modified Perspective Plan for the Company. The Company has assumed retirement of assets aggregating Rs 75 lakhs each year in the years 2014-15 to 2016-17 in Form 1.18 on an estimated basis. Completion of the different projects have been assumed as per estimations made by the Projects and Central Planning Departments of the Company, based on past experience and completion periods of ongoing and completed capital projects.

3.4.12 Forms 1.18 (c) (i) provides details of Investments made by the Company and planned investments in the period 2011-12 to 2013-14. Such investments include statutory investments required to be made of the annual appropriations made to the Reserve for

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Unforeseen Exigencies up to 2010-11 and interest income earned thereon in subsequent years. As at present, due to interest on Fixed Deposits being higher than that available on long term Government securities, all the investments on account of Reserve for Unforeseen Exigencies and interest income earned thereon are in fixed deposits with scheduled banks. However, the Company intends to reinvest in long term securities in the future when the returns available thereon exceed the then prevailing fixed deposit interest rates.

3.4.13 Form 1.18 (c) (ii) provides details of investment income.

3.5.0 Form 1.19

3.5.1 Capital Expenditure during each year, together with the requisite details of expenditure on ongoing and new capital schemes are provided in Forms 1.19 (a) to 1.19 (c).

3.6.0 Form 1.20

3.6.1 Details of Average Equity entitled to normative Return on Equity is provided in Form 1.20 (a). The lower of actual or normative equity contribution on net addition to fixed assets in each of the years of the Control Period has been considered for the purpose of arriving at the average equity base entitled to ROE.

3.6.2 Details of addition to normative debt have been provided in Form 1.20 (b). No such normative addition to debt is expected during the fourth Control Period.

3.7.0 Form 1.21

3.7.1 As per the APR Order for 2011-12, the Hon'ble Commission has directed that no further appropriations to Reserve for Unforeseen Exigencies be made from 2011-12 onwards. Accordingly, no such appropriation has been considered during the Control Period. However, interest received on existing investments against the Reserve is being reinvested on a year to year basis, as directed by the Hon'ble Commission.

3.7.2 Till the submission of the present Tariff Petition, WBSETCL has received from the Hon'ble Commission, APR Orders for the years 2008-09 to 2011-12. Of the above, the Hon'ble Commission has permitted realization of the additional amounts receivable by the Company as per such Orders up to the year 2010-11 along with the transmission charges billed to WBSEDCL during the period 2009-10 to 2015-16. At present, as per the Tariff Order dated 01.12.12, the APR adjustment for the year 2009-10 of Rs. 7271.73 lakhs is realizable in 3 equal annual instalments along with the tariffs for the years 2013-14 to 2015-16. Similarly, the APR adjustment for the year 2010-11 of Rs. 2785.17 lakhs is

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realizable in 3 equal annual instalments over the same period. WBSETCL has accordingly included as special appropriation in the years 2014-15 and 2015-16 under Form 1.21 such recoverable APR adjustment aggregating Rs.3352.30 lakhs in both the aforesaid years.

3.7.3 The Hon'ble Commission, by its Tariff Order dated 01.12.12 as amended by its Corrigendum Order dated 02.01.13, directed WBSETCL to recover the differential tariff for the period April 2012 to November 2012 consequent upon approval of revised tariffs for the year 2012-13, in four equal instalments in the billing months of December 2013 to March 2014. Form 1.21 accordingly includes as special appropriation in 2013-14 the sum of Rs. 10982.02 lakhs on this account.

3.7.4 It has been assumed that the review petition against the APR Order for 2011-12 will be passed by the Hon'ble Commission by 2013-14 and recovery of Rs 4471.26 lakhs already approved as APR adjustment for the year has been considered in 3 equal annual instalments in the years 2014-15 to 2016-17, pending confirmation/ascertainment of the additional amount that may be allowed by the Hon'ble Commission while disposing of the review petition.

3.7.5 In addition to the above, another review petition filed by WBSETCL against the APR Orders for 2008-09 is pending with the Hon'ble Commission. The Company has assumed that such review petition will be disposed favourably by the Hon'ble Commission, resulting in a sum of Rs. 4049.34 lakhs on account of the review petition for that year being allowed as special appropriation in 2014-15, along with the Rs. 2749.95 lakhs sought for recovery as APR adjustment for 2012-13.

3.7.6 WBSETCL anticipates that following filing of APR petition for 2013-14, a further sum of Rs. 8898.54 lakhs will be recoverable for that year as APR adjustment and realisation of the same will be allowed in the year 2016-17 as special appropriation for that year.

3.7.7 Additional amounts claimed as per the review petition for 2008-09 and 2011-12 in addition to that already approved for recovery by the Hon'ble Commission have not been considered in the application and the Company accordingly craves leave to seek recovery of the amounts claimed there against in appropriate years in the future in case of favourable orders being granted by the Hon'ble Commission there against.

3.8.0 Form 1.22

Amount recoverable as Return on Equity, computed on the average equity base for each of the years, has been computed on the basis of the applicable ROE rate of 15.5 % for the Control Period.

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3.9.0 Forms 1.23 and 1.24

Pending quantification of actual T&D losses for the future years, no incentive has been claimed during the Control Period, nor have any benefits been considered for pass on to consumers in Form 1.24.

3.10.0 Form 1.26

Details of Other Income are provided in this form. Besides income from investments and bank balances, Other Income consists of profit from sale of tender papers and sale of scrapped assets and other miscellaneous income. Since Interest on Unforeseen Exigencies Reserve Investments is required to be reinvested, the same has been excluded from Interest Income in Form 1.18 (c) and Form 1.26.

3.11.0 Form B

Details of assets on which depreciation is allowable at the applicable rates are provided in Form B. Category segregation of Capitalised Assets and Capitalised deposit work is provided in **Annexure F.**

3.12.0 Form C

Details of existing and projected loans and other borrowings on which interest is payable is provided in Form C for the respective years. The forms also take into account the agreed repayment terms of the existing loans and similar repayment tenors have been assumed for the normative loan for the calculation of interest thereon. The weighted average interest rate on the average outstanding loan/bond during the year has been computed year-wise and applied for the calculation of interest allowable on normative debt.

3.13.0 Form E (T)

Based on the aforesaid assumptions the summarized Annual Revenue Requirements for each of the years of the Fourth Control Period are provided in Form E (T).

3.14.0 Cash Flow Statement

Cash Flow Statement in the prescribed Form 6 is attached for the years covered under the Tariff Petition.

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WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Computation of Taxes on Income/Profits for the years 2013-14 to 2016-17

PARTICULARS	Amount (Rs in Lakhs)	Amount (Rs in Lakhs)	Amount (Rs in Lakhs)	Amount (Rs in Lakhs)
INCOME	2013-14	2014-15	2015-16	2016-17
Revenue from Operations	116063.10	118813.89	140707.72	152445.09
Less: Rebate	2490.38	2470.92	2874.66	3041.79
Net Revenue from Operations	113572.73	116342.98	137833.06	149403.30
STOA Charges	6300.44	6930.48	7277.00	7640.85
Scheduling Charges and SLDC Charges	2026.88	2171.83	2387.85	2619.07
Other Income	1514.22	1871.28	1979.19	2096.43
TOTAL	**123414.27**	**127316.57**	**149477.10**	**161759.65**
EXPENDITURE				
Transmission Charges	6242.88	6242.88	6242.88	6242.88
Repairs & Maintenance Expenses	3955.80	4928.96	6143.06	7658.05
Employees Cost	15647.49	17328.39	22495.70	25510.13
Administrative & General Expenses	1487.46	1281.77	1344.49	1447.81
Outsourced Expenses	2376.06	2878.26	3497.24	4261.45
ERPC Charges	15.00	15.00	15.00	15.00
ULDC Charges	1451.39	1596.53	1756.18	1931.80
SUB TOTAL	**31176.08**	**34271.79**	**41494.54**	**47067.12**
EBDIT	**92238.19**	**93044.78**	**107982.55**	**114692.53**
Depreciation & Related Debits (1)	17472.71	19989.99	22191.61	24645.62
Interest & Finance Charges	25165.54	29133.12	32142.66	35053.92
SUB TOTAL	**42638.25**	**49123.11**	**54334.27**	**59699.54**
Profit/(Loss) before Tax and Prior Period Adjustments	**49599.94**	**43921.66**	**53648.28**	**54992.99**
Net Prior Period Income/(Expenditure)				
Profit/(Loss) before Tax (2)	**49599.94**	**43921.66**	**53648.28**	**54992.99**
Less:Provision For Taxation (Max of A & B)	9923.83	8787.74	10733.81	11002.86
Net Profit for the year(After Tax)	**39676.11**	**35133.92**	**42914.47**	**43990.13**
Reserve for Unforeseen Exigencies	-	-	-	-
Debenture Redemption Reserve	1757.50	1757.50	1757.50	1757.50
Transfer to General Reserve	**37918.61**	**33376.42**	**41156.97**	**42232.63**
Income Tax Depreciation (3)	**NA**	**44415.18**	**47996.95**	**50816.79**
Adjusted Profit(for Income Tax Purpose) = (2+1-3)		**19496.48**	**27842.95**	**28821.82**
Tax at MAT rate ----- 20.00775% (A)	**9923.83**	**8787.74**	**10733.81**	**11002.86**
Tax at Normal rate ---- 33.99 % (B)	**NA**	**6626.85**	**9463.82**	**9796.54**

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Projected expenses of SLDC

Particulars	2013-14	2014-15	2015-16	2016-17
SLDC Charges				
R & M	346.71	360.33	377.95	394.34
Administrative Charges	52.17	57.97	62.03	66.37
Bank Charges	0.47	0.52	0.54	0.60
Emp Cost	438.98	448.52	475.68	504.01
ULDC	1451.39	1596.53	1756.18	1931.80
Total Revenue Expenditure --- A	**2289.72**	**2463.87**	**2672.38**	**2897.12**
Capital Expenditure ------ B	5.32	5.92	13.00	21.00
Total Expenditure ----- C = A + B	**2295.04**	**2469.79**	**2685.38**	**2918.12**
Income				
Sch Charges	23.40	26.00	27.00	28.00
App Fees	14.40	16.00	16.50	17.00
Int Inc	230.36	255.96	254.02	254.06
Total Income ------- D	**268.16**	**297.96**	**297.52**	**299.06**
Net SLDC Charges ------ C - D	**2026.88**	**2171.83**	**2387.86**	**2619.06**

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Annexure-C

Perspective Plan for 2014-15 to 2018-19

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Annexure - A

EXECUTIVE SUMMARY

The perspective plan of WBSETCL up to 2016-17 was approved by the Board in its 20th meeting held on 10/02/2011 which was subsequently was revised by the Board in its 30th meeting held on 28/01/2013 towards feasibility study & construction with a provision of detailed review every year. Total project cost was ₹ 5212.86 Crore (Revised) without IDC at 4th quarter 2010 price. The plan was formulated based on demand projection up to 2016-17.

The revised scope of work were :
400 KV Sub-stations – 3 nos., 220 KV Sub-stations – 10 nos. & 132 KV Sub-stations – 30 nos.
Capacity addition : 400/220 KV – 1890 MVA, 220/132 KV – 3840 MVA, 220/33 KV – 200 MVA & 132/33 KV – 3234 MVA.
400 KV Transmission Lines – 2622 CKM, 220 KV Transmission Lines – 1042 CKM & 132 KV Transmission Line – 2728 CKM and augmentation of transformer capacity & installation of 33 KV Capacitor Bank.

Now, augmentation of transformer capacity are being taken up case to case basis as per requirement of the system and installation of Capacitor Bank has been placed separately after carrying out detailed studies.

During present review, WBSEDCL submitted their district wise requirement of power up to the year 2018-19.

Based on the projected district wise demand of the State & availability of land for sub-stations, rolling plan of WBSETCL from 2014-15 to 2018-19 has been formulated with detailed interaction with SLDC, O&M & WBSEDCL keeping in view the prospective generating units in the State Sector & bulk consumers after detailed Power Flow Analysis. The proposed plan was presented before the Chairman and Managing Director, WBSEDCL, the Managing Director, WBSETCL, the Director (Projects), WBSETCL, the Director (Operations), WBSETCL, the Director (Distribution), WBSEDCL and Chief Engineers from WBSETCL & WBSEDCL on 31/10/2013 and detailed district wise proposal was discussed.

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Annexure - A

The following projects are under execution and expected to be completed progressively from 2013-14 to 2015-16.

Sub-station (MVA)

Sno.	Name of Sub-stations	LOA Date	220/132	132/33	Total
1	Foundry Park 220/132/33	09-03-11	320	100	420
2	Hura 220/132/33	05-12-11	320	100	420
3	Vidyasagar Park 220/132/33		320	100	420
4	Sirakol 132/33	14-06-12		63	63
5	Kuli 132/33 GIS	19-10-12		100	100
6	Khejuria 132/33 GIS	19-10-12		63	63
7	Food Park 132/33	31-07-10		100	100
8	Najirpur 132/33 KV GIS	07-03-13		63	63
9	Mathabanga 132/33 GIS	08-02-13		63	63
10	Ujanoo 132/33	10-07-13		63	63
	Total		**960**	**815**	**1775**

Transmission Line (CKM)

Sno.	Name of Transmission Line	400	220	132
1	KTPS - Kharagpur 400 KV S/C Line	90.5		
2	Sagardighi - Gokarna 400 KV D/C line	82.0		
3	Jeerat - Rishra 220 KV D/C Line		140.0	
4	Khragpur - Midnapur 220 KV D/C Line		91.6	
5	Dalkhola (PG) - Dalkhola 220 KV D/C		2.0	
6	Subhasgram (PG) - Saitala Point 220 KV D/C Line		25.0	
7	NJP - TLDP-IV 220 KV D/C Line		145.1	
8	TLDP-III - TLDP-IV 220 KV S/C		21.1	
9	LILO of Howrah - Domjur 220 KV D/C at Foundry Park		60.5	
10	LILO of 1 CKT of STPS - N. Bishnupur 220 KV D/C at Hura		31.6	
11	Hura - Raghunathpur 220 KV D/C (ch. at 132 KV)		66.7	
12	LILO of Arambag - Rishra 220 KV S/C at Singur		20.0	
13	Gokarna - Krishnanagar 220 KV D/C Line		210.0	
14	Kharagpur - Vidyasagar Park 220 D/C & M/C		94.0	
15	LILO of Jeerat - KLC 220 KV S/C at NT AA-III		2.0	
16	Amtala - Najirpur 132 KV D/C			26.7
17	LILO of Gokarna - Sainthia 132 KV S/C at Kuli			8.0
18	Birsingha - CK Road 132 KV D/C Line			68.0
19	Foundry Park - Bagnan (up to tapping point) 132 KV D/C			49.8
20	Hura - Purulia 132 KV D/C			31.8
21	LILO of one ckt of Howrah-Kolaghat 132 KV D/C line of DVC at Foodpark			0.5
22	Food Park - Ambuja 132 KV D/C			6.0
23	Laxmikantapur - Sirakol 132 KV D/C & LILO at Sirakol			36.0

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Sno.	Name of Transmission Line	400	220	132
24	Coochbehar - Pundibari TSS 132 KV S/C on D/C			10.0
25	TCF-I - Rangapani 132 KV S/C on D/C			8.0
26	Mathabangha - Coochbehar 132 KV D/C			94.0
27	Mathabangha - Moinaguri 132 KV D/C			110.0
28	TCF-III - Gunjaria 132 KV S/C on D/C			42.8
29	Rarmpurhat - Rampurhat TSS 132 KV S/C on D/C			8.6
	Total	**172.5**	**909.6**	**500.2**

The projected demand of WBSEDCL at 33 KV excluding supply to CESC are as follows:

District wise Projection of Peak Demand in MVA

District/year	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
24 Paraganas (S)	448	484	522	564	609	658	704
24 Paraganas (N)	820	886	957	1034	1117	1206	1290
Howrah	320	346	373	403	436	470	503
Hooghly	408	441	476	514	556	600	642
Burdwan	661	714	771	833	899	971	1039
Birbhum	345	373	403	435	470	507	542
East Midnapur	374	404	437	471	509	550	589
West Midnapur	595	644	695	751	811	876	937
Bankura	201	217	234	253	273	295	316
Purulia	103	111	120	130	140	151	162
Nadia	340	367	397	429	463	500	535
Murshidabad	457	494	533	576	622	672	719
Malda	216	233	252	272	294	317	339
Dinajpur (S)	90	97	105	114	123	132	141
Dinajpur (N)	129	139	150	162	175	189	202
Jalpaiguri	218	235	254	274	296	320	342
Coochbehar	108	110	120	129	139	150	161
Darjeeling	238	257	277	299	324	350	375
Total	6071	6552	7076	7643	8256	8914	9538
Simultaneous	5279	5697	6153	6646	7179	7751	8294

The studies were carried out by considering entire eastern region 400 kV transmission network up to 220 kV bus of 400 kV substations while modeling the West Bengal transmission system from 400 kV to 33 kV bus of 132 kV substation. Upcoming generating stations of all the agencies in West Bengal and rest of the eastern region are considered for the studies.

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Annexure - A

The details of the substations planned for meeting the load and their year wise requirement as considered & concluded from the studies is tabulated below:

Proposal for Strengthening of WBSETCL Transmission Network up to 2018-19

Sno.	Name of the Transmission Project	Year
A. 400 KV		
Sub-stations:		
1	Gokarna 400/220 KV Sub-station	2015-16
2	New Chanditala 400/220/132 KV Sub-station	2016-17
3	New PPSP 400/132 KV GIS	2016-17
4	Raghunathpur 400/220 KV Sub-station	2017-18
5	New Katwa 400/220/132 KV Sub-station	2017-18
6	Burdwan 400/132 KV Sub-station	2017-18
7	New Haldia NIZ 400/220/132 KV Sub-station	2018-19
8	Mayureswar 400/132 KV Sub-station	2018-19
Transmission Lines:		
1	New Chanditala - Gokarna 400 KV D/C	2016-17
2	New Chanditala - Kharagpur 400 KV D/C	2016-17
3	LILO of PPSP - Arambag 400 KV D/C at New PPSP	2016-17
4	New Chanditala - Rajarhat (PG) 400 KV D/C	2017-18
5	Raghunathpur TPS (DVC) - Raghunathpur 400 KV D/C	2017-18
6	Raghunathpur - N.Chanditala 400 KV D/C	2017-18
7	New Chanditala - New Katwa 400 KV D/C	2017-18
8	Gokarna - New Katwa 400 KV D/C	2017-18
9	LILO of Durgapur - Arambag 400 KV S/C at Burdwan	2017-18
10	New Chanditala - Bakreswar 400 KV D/C	2018-19
11	New Haldia NIZ - N.Chanditala 400 KV D/C	2018-19
12	LILO of Kharagpur - N.Chanditala 400 KV D/C at JSW, Salboni	2018-19
13	LILO of Parulia - Sagardighi TPS 400 KV D/C at Mayureswar	2018-19
B. 220 KV		
Sub-stations:		
1	Dharampur 220/132 KV GIS	2015-16
2	New Town AA-IIC 220/132/33 KV GIS	2015-16
3	Egra 220/132 KV GIS	2015-16
4	Barasat 220/132 KV GIS	2015-16
5	Narayangarh 220/132/33 KV GIS	2016-17
6	Sadaipur 220/132 KV GIS	2016-17
7	Amtola 220/132 KV GIS	2016-17
8	Alipurduar 220/132 KV GIS	2016-17
9	Baruipur 220/132 KV GIS	2017-18
10	Gazol 220/132/33 KV Sub-station	2017-18
11	CK Road 220/132 KV GIS	2017-18
12	N.Raghunathgunj 220/132 KV Sub-station	2017-18
13	Andal 220/132/33 KV Sub-station	2018-19

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Transmission Lines:

1	IPCL - New Haldia 220 KV D/C UG+OH	2015-16
2	New Town AA-III - New Town AA-IIC 220 KV D/C UG Cable	2015-16
3	LILO of Jeerat - Rishra 220 KV D/C at Dharampur	2015-16
4	IPCL - Egra 220 KV D/C	2015-16
5	LILO of Jeerat - Rajarhat (PG) 220 KV D/C at Barasat	2015-16
6	LILO of STPS - Durgapur 220 KV S/C at Asansol	2015-16
7	Kharagpur - Narayangarh 220 KV D/C	2016-17
8	LILO of Bakreswar - Gokarna 220 KV D/C at Sadaipur	2016-17
9	LILO of Gokarna - Krishnanagar 220 KV D/C at Amtola	2016-17
10	Egra - Narayangarh 220 KV D/C	2016-17
11	LILO of Howrah - Foundry Park 220 KV D/C at N.Chanditala	2016-17
12	LILO of Dharampur - Rishra 220 KV D/C at N.Chanditala	2016-17
13	Alipurduar (PG) - Alipurduar 220 KV D/C	2016-17
14	LILO of Asansol - Andal 220 KV D/C at Raghunathpur	2017-18
15	LILO of Malda (PG) - Dalkhola (PG) 220 KV D/C Line at Gazol	2017-18
16	N.Chanditala - Singur 220 KV D/C	2017-18
17	Subhasgarm (PG) - Baruipur 220 KV D/C	2017-18
18	LILO of Jeerat - NT AA-III 220 KV D/C at Rajarhat (PG)	2017-18
19	Rajarhat (PG) - NT AA IIC 220 KV D/C (Twin Moose)	2017-18
20	LILO of Arambag - Midnapur 220 KV D/C at CK Road	2017-18
21	LILO of Sagardighi - Gokarna 220 KV D/C at N.Raghunathgunj	2017-18
22	LILO of STPS - N.Bishnupur 220 KV S/C at Hura	2017-18
23	LILO of Satgachia-Krishnanagar 220 KV D/C at New Katwa	2017-18
24	LILO of IPCL - Egra 220 KV D/C at New Haldia NIZ	2018-19
25	LILO of Asansol - Durgapur 220 KV D/C at Andal	2018-19

C. 132 KV

Sub-stations:

1	Domkol 132/33 KV GIS	2015-16
2	Bajkul 132/33 KV GIS	2015-16
3	Sonakhali 132/33 KV GIS	2015-16
4	Mohitnagar 132/33 KV GIS	2015-16
5	Narayanpur 132/33 KV GIS	2015-16
6	Bhadrapur 132/33 KV GIS	2015-16
7	Banarhat 132/33 KV GIS	2015-16
8	Jagatballavpur 132/33 KV GIS	2015-16
9	Panagarh 132/33 KV GIS	2015-16
10	Jhalda 132/33 KV Sub-station	2015-16
11	Bagula 132/33 KV Sub-station	2015-16
12	Panpur (Shyamnagar) 132/33 KV GIS	2015-16
13	Guskara 132/33 KV Sub-station	2015-16
14	Debra (Panskura) 132/33 KV Sub-station	2015-16
15	Rasulpur (Patrasayer) 132/33 KV Sub-station	2016-17

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16	Sonepur 132/33 KV Sub-station	2016-17
17	Kalimpong 132/33 KV GIS	2016-17
18	Amdanga 132/33 KV Sub-station	2016-17
19	Serapole (Baduria) 132/33 KV Sub-station	2016-17
20	Hasimara 132/33 KV GIS	2016-17
21	Hamiltongunj 132/33 KV GIS	2016-17
22	Kamakhyaguri 132/33 KV GIS	2016-17
23	Renia 132/33 KV GIS	2016-17
24	KWIC (Kona) 132/33 KV Sub-station	2016-17
25	Belda 132/33 KV Sub-station	2016-17
26	Salar 132/33 KV Sub-station	2016-17
27	Nabagram 132/33 KV Sub-station	2016-17
28	Bainchi (Banshberia) 132/33 KV Sub-station	2016-17
29	Salanpur 132/33 KV Sub-station	2016-17
30	Garbeta 132/33 KV Sub-station	2016-17
31	Mayapur 132/33 KV Sub-station	2016-17
32	Jangalpur 132/33 KV GIS	2017-18
33	Dubrajpur 132/33 KV Sub-station	2017-18
34	Sankrail 132/33 KV Sub-station	2017-18
35	Jellinghum 132/33 KV Sub-station	2017-18
36	Islampur 132/33 KV Sub-station	2017-18
37	Beldanga 132/33 KV Sub-station	2017-18
38	Manbazar 132/33 KV Sub-station	2017-18
39	Jagadishpur 132/33 KV Sub-station	2017-18
40	Minakha 132/33 KV Sub-station	2018-19
41	Ramnagar 132 /33 KV Sub-station	2018-19
42	Chanchal 132/33 KV Sub-station	2018-19
43	132 KV Switching Station near Lebong	2018-19

Transmission Lines:

1	Khejuria - Farakka 132 KV D/C (XLPE Cable)	2014-15
2	LILO of Hizlee - Egra (BEL) 132 KV S/C at Kharagpur	2014-15
3	New Town AA-III - New Town AA-I 132 KV D/C UG Cable	2014-15
4	Kharagpur - Jhargram 132 KV D/C	2014-15
5	Vidyasagar Park - Kharagpur WBIDC 132 KV D/C	2014-15
6	Jeerat - Mohispota 132 KV D/C	2014-15
7	Domjur - Chanditala 132 KV D/C	2014-15
8	Laying of 2 nos. 132 KV D/C UG Cable Transmission Line from Sonarpur 132 KV Substation to Tower location AP-8	2014-15
9	LILO of Gokarna - Rampurhat 132 KV S/C at Kuli	2015-16
10	Purulia - Bagmundi 132 KV S/C Stringing of 2nd ckt. Of Purulia-Bagmundi 132 KV D/C	2015-16
11	Najirpur - Domkol 132 KV D/C	2015-16
12	LILO of N.Haldia - Egra 132 KV S/C at Contai	2015-16

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13	LILO of BTPS - Satgachia 132 KV S/C at Khanyan	2015-16
14	Gokarna - Bhadrapur 132 KV D/C	2015-16
15	Jagipara - Jagatballavpur 132 KV D/C	2015-16
16	New Town AA-IIC - Narayanpur 132 KV D/C UG Cable	2015-16
17	Birpara - Banarhat 132 KV D/C	2015-16
18	Banarhat - Chalsa 132 KV D/C	2015-16
19	KLC - Sonakhali 132 KV D/C	2015-16
20	LILO of NJP - Moinaguri 132 KV S/C at Mohitnagar	2015-16
21	LILO of NJP - Chalsa 132 KV S/C at Mohitnagar	2015-16
22	Hizlee - Kharagpur - BEL - Egra 132 KV S/C	2015-16
23	Mankar - Panagarh 132 KV D/C	2015-16
24	LILO of Adisaptagram - Belmuri 132 KV D/C at Singur	2015-16
25	LILO of New Haldia - Egra 132 KV S/C at Bajkul	2015-16
26	LILO of New Haldia - Contai 132 KV S/C at Bajkul	2015-16
27	Ranaghat - Bagula 132 KV D/C	2015-16
28	Krishnanagar - Bagula 132 KV D/C	2015-16
29	Titagarh - Mohispota 132 KV S/C UG Cable	2015-16
30	Bagmundi - Jhalda 132 KV D/C	2015-16
31	Dharampur - Panpur 132 KV D/C	2015-16
32	Basirhat - New Town AA-III 132 KV D/C	2015-16
33	LILO of Midnapur - Pingla 132 KV D/C at Debra	2015-16
34	Bolpur - Guskara 132 KV D/C	2015-16
35	Ukhra - Sonepur 132 KV D/C	2016-17
36	Asansol - Sonepur 132 KV D/C	2016-17
37	LILO of Bolpur - Sainthia 132 KV D/C at Sadaipur	2016-17
38	New PPSP - Bagmundi 132 KV D/C UG Cable	2016-17
39	Kalimpong - Melli 132 KV D/C	2016-17
40	Kalimpong - Chalsa 132 KV D/C	2016-17
41	Alipurduar - Kamakhyaguri 132 KV D/C	2016-17
42	Birpara - Hasimara 132 KV D/C	2016-17
43	Hasimara - Hamiltongunj 132 KV D/C	2016-17
44	Alipurduar - Hamiltongunj 132 KV D/C	2016-17
45	Foundry Park - Jagatballavpur 132 KV D/C	2016-17
46	Narayangarh - Pingla 132 KV D/C	2016-17
47	Laxmikantapur - Sonakhali 132 KV D/C	2016-17
48	New Bishnupur - Rasulpur 132 KV D/C	2016-17
49	Extention of Kasba - Sonarpur 132 KV S/C to Renia	2016-17
50	Joka - Renia 132 KV S/C UG Cable	2016-17
51	LILO of Birpara - Coochbehar 132 KV S/C at Alipurduar	2016-17
52	Amdanga - Panpur 132 KV D/C	2016-17
53	LILO of Jeerat - Barasat 132 KV D/C at Amdanga	2016-17
54	Barasat - Narayanpur 132 KV D/C	2016-17
55	Jagadishpur - KWIC 132 KV D/C	2016-17
56	LILO of Narayangarh - Egra 132 KV D/C Line at Belda	2016-17

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57	Ashokenagar - Serapole 132 KV D/C	2016-17
58	Basirhat-Serapole 132 KV D/C	2016-17
59	Belmuri - Bainchi 132 KV D/C	2016-17
60	Arambag - Mayapur 132 KV D/C	2016-17
61	New Chanditala - Mayapur 132 KV D/C	2016-17
62	Asansol - Salanpur 132 KV KV D/C	2016-17
63	LILO of CK Road - Bishnupur 132 KV D/C at Garbeta	2016-17
64	LILO of BTPS - Dharampur 132 KV S/C at Kalyani	2016-17
65	LILO of Gokarna - Katwa 132 KV D/C at Salar	2016-17
66	LILO of Gokarna - N. Raghunathgunj 132 KV D/C at Nabagram	2016-17
67	LILO of Howrah (DVC) - Kolkaghat (DVC) 132 KV S/C at Jangalpur	2017-18
68	Amtola - Domkol 132 KV D/C	2017-18
69	NBU - Ujanoo - Siliguri 132 KV S/C	2017-18
70	Burdwan - Rasulpur 132 KV D/C	2017-18
71	Raina - Burdwan 132 KV D/C	2017-18
72	Durgapur - Panagarh 132 KV D/C	2017-18
73	LILO of Malda - Samsi 132 KV S/C Line at Gazol	2017-18
74	LILO of Raigunj - Samsi 132 KV S/C Line at Gazol	2017-18
75	LILO of Malda - Raigunj 132 KV S/C Line at Gazol	2017-18
76	Termination of 132 KV D/C from Balurghat to Gazol point at Gazol	2017-18
77	New Chanditala - Jagadishpur 132 KV D/C	2017-18
78	Sadaipur - Dubrajpur 132 KV D/C	2017-18
79	Bajkul - Jellinghum 132 KV D/C	2017-18
80	LILO of Mankar - Mahachanda 132 KV D/C at Burdwan	2017-18
81	LILO of TCF-3 - Dalkhola 132 KV D/C at Islampur	2017-18
82	Burdwan - Bainchi 132 KV D/C	2017-18
83	LILO of Kharagpur - Narayangarh 132 KV D/C at Sankrail	2017-18
84	Baruipur - Serakol 132 KV D/C	2017-18
85	Hura - Manbazar 132 KV D/C	2017-18
86	Kharta - Manbazar 132 KV D/C	2017-18
87	Amtola - Beldanga 132 KV D/C	2017-18
88	Debogram - Beldanga 132 KV D/C	2017-18
89	LILO of Gokarna - Lalgola 132 KV S/C at N.Raghunathgunj	2017-18
90	LILO of Gokarna - Raghunathgunj 132 KV S/C at N.Raghunathgunj	2017-18
91	LILO of Raghunathgunj - Lalgola 132 KV S/C at N.Raghunathgunj	2017-18
92	Rampurhat - Bhadrapur 132 KV D/C	2017-18
93	N.Chanditala - Dankuni 132 KV D/C	2017-18
94	N. Katwa - Katwa 132 KV D/C	2017-18
95	N. Katwa - Guskara 132 KV D/C	2017-18
96	LILO of Midnapur - Bishnupur 132 KV S/C at CK Road	2017-18

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97	LILO of KLC - Sonakhali 132 KV D/C at Minakha	2018-19
98	Rammam-III - NJP 132 KV D/C	2018-19
99	Rammam-III - Switching Station 132 KV D/C	2018-19
100	LILO of Rmm-II - NBU 132 KV S/C at Switching Station	2018-19
101	LILO of Rmm-II - Lebong 132 KV S/C at Switching Station	2018-19
102	LILO of NBU - Lebong 132 KV S/C at Switching Station	2018-19
103	LILO of Ukhra - Sonepur 132 KV D/C Line at Andal	2018-19
104	LILO of Haldia - Haldia NIZ 132 KV D/C at New Haldia NIZ	2018-19
105	LILO of Tamluk - Haldia NIZ 132 KV D/C at New Haldia NIZ	2018-19
106	LILO of Sainthia - Rampurhat 132 KV S/C at Mayureswar	2018-19
107	LILO of Kuli - Rampurhat 132 KV S/C at Mayureswar	2018-19
108	LILO of Sainthia - Kuli 132 KV S/C at Mayureswar	2018-19
109	Serakol - Joka 132 KV S/C	2018-19
110	Gazol - Chanchal 132 KV D/C	2018-19
111	Samsi - Chanchal 132 KV D/C	2018-19
112	Contai-Ramnagar 132 KV D/C	2018-19
113	Egra-Ramnagar 132 KV D/C	2018-19

Also, CESC interconnection points with WBSETCL/PGCIL system as considered for year wise studies is given below.

CESC Interconnection points with WBSETCL system by 2018-19				
Sl. No.	From Substation	To Substation	Voltage Level	Remarks
1	Lillooah (WBSETCL)	Belur (CESC)	132 kV	Existing
2	Kasba (WBSETCL)	EMS (CESC)	132 kV	Existing
3	Kasba (WBSETCL)	EMS (CESC)	220 kV	Existing
4	Titagarh (WBSETCL)	Titagarh (CESC)	132 kV	Existing
5	Howrah (WBSETCL)	SRS (CESC)	132 kV	Existing
6	Howrah (WBSETCL)	Botanical Garden old (CESC)	132 kV	Existing
7	Howrah (WBSETCL)	Botanical Garden New (CESC)	132 kV	Existing
8	Rishra (WBSETCL)	Rishra (CESC)	132 kV	Existing
9	Subhashgram (PGCIL)	EMS (CESC)	220 kV	Existing
10	New Chanditala (WBSETCL)	Belur (CESC)	220 kV	

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Annexure - B

Abstract Estimate

Proposal for Strengthening of WBSETCL Transmission Network up to 2018-19

(Rs.in Crore)

New Transmission Projects

Sl. No.	Description	Project Cost (Supp.+Erec)	Exp. up to 31/03/13	Anticipated Expenditure					
				13-14	14-15	15-16	16-17	17-18	18-19
1	400 KV Sub-station	905.00	12.28	17.00	80.0	200.00	201.52	214.20	140.00
2	400 KV Transmission Line	1701.18	0.00	20.00	70.0	380.50	333.50	417.18	334.50
3	220 KV Sub-station	817.00	0.00	4.00	40.0	140.00	257.00	250.00	101.00
4	220 KV Transmission Line	757.70	0.00	0.00	45.5	215.94	265.50	158.06	70.50
5	132 KV Sub-station	1177.00	0.00	0.00	42.0	236.00	410.00	305.00	140.00
6	132 KV Transmission Line	1741.67	0.00	7.00	142.7	386.73	489.80	391.20	223.36
Total		7099.55	12.28	48.00	420.2	1559.17	1957.32	1735.64	1009.36

On-going Transmission Projects

Sl. No.	Description	Project Cost (Supp.+Erec)	Exp. upto 31/03/13	Anticipated Expenditure					
				13-14	14-15	15-16	16-17	17-18	18-19
1	400 KV Sub-station	125.05	117.37	7.68	0.00	0.00	0.00	0.00	0.00
2	400 KV Transmission Line	209.23	64.34	29.47	70.00	45.42	0.00	0.00	0.00
3	220 KV Sub-station	163.59	32.86	54.06	67.64	9.03	0.00	0.00	0.00
4	220 KV Transmission Line	602.99	306.23	124.13	172.63	0.00	0.00	0.00	0.00
5	132 KV Sub-station	177.02	57.68	63.30	55.44	0.60	0.00	0.00	0.00
6	132 KV Transmission Line	187.44	72.42	53.97	61.05	0.00	0.00	0.00	0.00
Total		1465.32	650.90	332.61	426.76	55.05	0.00	0.00	0.00

Grand Total		8564.87	663.18	380.61	846.96	1614.22	1957.32	1735.64	1009.36

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Annexure - B

Proposal for Strengthening of WBSETCL Transmission Network up to 2018-19

(Rs.in Crore)

Sl. No.	Name of the Transmission Project	Year	Proj. Cost (Sup+Erec)	Exp. up to 03/13	Anticipated Phasing of Expenditure					
					13-14	14-15	15-16	16-17	17-18	18-19
A. 400 KV										
Sub-stations:										
1	Gokarna 400/220 KV Sub-station	2015-16	114.00	4.48	7.00	30.00	60.00	12.52		
2	New Chanditala 400/220/132 KV Sub-station	2016-17	176.00	7.80	10.00	40.00	60.00	49.00	9.20	
3	New PPSP 400/132 KV GIS	2016-17	115.00			10.00	50.00	30.00	25.00	
4	Raghunathpur 400/220 KV Sub-station	2017-18	100.00				10.00	30.00	40.00	20.00
5	New Katwa 400/220/132 KV Sub-station	2017-18	100.00				10.00	30.00	40.00	20.00
6	Burdwan 400/132 KV Sub-station	2017-18	100.00				10.00	30.00	40.00	20.00
7	New Haldia NIZ 400/220/132 KV Sub-station	2018-19	100.00					10.00	30.00	40.00
8	Mayureswar 400/132 KV Sub-station	2018-19	100.00					10.00	30.00	40.00
Sub-total 400 KV SS:			905.00	12.28	17.00	80.00	200.00	201.52	214.20	140.00
Transmission Lines:										
1	New Chanditala - Gokarna 400 KV D/C	2016-17	267.00		20.00	40.00	130.00	60.00	17.00	
2	New Chanditala - Kharagpur 400 KV D/C	2016-17	262.38			30.00	130.00	70.00	32.38	
3	LILO of PPSP - Arambag 400 KV D/C at New PPSP	2016-17	2.80				0.50	1.50	0.80	
4	New Chanditala - Rajarhat (PG) 400 KV D/C	2017-18	168.00				30.00	30.00	60.00	48.00
5	Raghunathpur TPS (DVC) - Raghunathpur 400 KV D/C	2017-18	14.00					1.50	7.00	5.50
6	Raghunathpur - N.Chanditala 400 KV D/C	2017-18	259.00				40.00	60.00	85.00	74.00
7	New Chanditala - New Katwa 400 KV D/C	2017-18	154.00				30.00	45.00	50.00	29.00
8	Gokarna - New Katwa 400 KV D/C	2017-18	77.00				20.00	20.00	20.00	17.00
9	LILO of Durgapur - Arambag 400 KV S/C at Burdwan	2017-18	7.00					1.00	5.00	1.00
10	New Chanditala - Bakreswar 400 KV D/C	2018-19	224.00					20.00	60.00	60.00
11	New Haldia NIZ - N.Chanditala 400 KV D/C	2018-19	168.00					15.00	50.00	60.00
12	LILO of Kharagpur - N.Chanditala 400 KV D/C at JSW, Salboni	2018-19	84.00					8.00	25.00	35.00
13	LILO of Parulia - Sagardighi TPS 400 KV D/C at Mayureswar	2018-19	14.00					1.50	5.00	5.00
Sub-total 400 KV Line:			1701.18	0.00	20.00	70.00	380.50	333.50	417.18	334.50
B. 220 KV										
Sub-stations:										
1	Dharampur 220/132 KV GIS	2015-16	52.00		4.00	20.00	20.00	8.00		
2	New Town AA-IIC 220/132/33 KV GIS	2015-16	80.00			8.00	40.00	32.00		
3	Egra 220/132 KV GIS	2015-16	55.00			6.00	25.00	24.00		
4	Barasat 220/132 KV GIS	2015-16	55.00			6.00	25.00	24.00		
5	Narayangarh 220/132/33 KV GIS	2016-17	80.00				8.00	40.00	32.00	
6	Sadaipur 220/132 KV GIS	2016-17	80.00				8.00	40.00	32.00	
7	Amtola 220/132 KV GIS	2016-17	55.00				6.00	25.00	24.00	
8	Alipurduar 220/132 KV GIS	2016-17	75.00				8.00	40.00	27.00	
9	Baruipur 220/132 KV GIS	2017-18	80.00					8.00	40.00	32.00

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10	Gazol 220/132/33 KV Sub-station	2017-18	50.00					5.00	25.00	20.00
11	CK Road 220/132 KV GIS	2017-18	55.00					6.00	40.00	9.00
12	N.Raghunathgunj 220/132 KV Sub-station	2017-18	50.00					5.00	25.00	20.00
13	Andal 220/132/33 KV Sub-station	2018-19	50.00						5.00	20.00
Sub-total 220 KV SS:			817.00	0.00	4.00	40.00	140.00	257.00	250.00	101.00

Transmission Lines:

1	IPCL - New Haldia 220 KV D/C UG+OH	2015-16	16.00			2.00	8.00	6.00		
2	New Town AA-III - New Town AA-IIC 220 KV D/C UG Cable	2015-16	250.00			25.00	125.00	100.00		
3	LILO of Jeerat - Rishra 220 KV D/C at Dharampur	2015-16	5.94			5.50	0.44			
4	IPCL - Egra 220 KV D/C	2015-16	72.00			7.00	36.00	29.00		
5	LILO of Jeerat - Rajarhat (PG) 220 KV D/C at Barasat	2015-16	18.00			2.00	9.00	7.00		
6	LILO of STPS - Durgapur 220 KV S/C at Asansol	2015-16	36.00			4.00	18.00	14.00		
7	Kharagpur - Narayangarh 220 KV D/C	2016-17	16.56				2.00	8.00	6.56	
8	LILO of Bakreswar - Gokarna 220 KV D/C at Sadaipur	2016-17	9.00				1.00	5.00	3.00	
9	LILO of Gokarna - Krishnanagar 220 KV D/C at Amtola	2016-17	36.00				4.00	18.00	14.00	
10	Egra - Narayangarh 220 KV D/C	2016-17	67.50				7.00	35.00	25.50	
11	LILO of Howrah - Foundry Park 220 KV D/C at N.Chanditala	2016-17	18.00				2.00	9.00	7.00	
12	LILO of Dharampur - Rishra 220 KV D/C at N.Chanditala	2016-17	27.00				3.00	14.00	10.00	
13	Alipurduar (PG) - Alipurduar 220 KV D/C	2016-17	4.50				0.50	2.00	2.00	
14	LILO of Asansol - Andal 220 KV D/C at Raghunathpur	2017-18	9.00					1.00	5.00	3.00
15	LILO of Malda (PG) - Dalkhola (PG) 220 KV D/C Line at Gazol	2017-18	1.80					0.50	1.00	0.30
16	N.Chanditala - Singur 220 KV D/C	2017-18	18.00					2.00	9.00	7.00
17	Subhasgarm (PG) - Baruipur 220 KV D/C	2017-18	9.00					1.00	5.00	3.00
18	LILO of Jeerat - NT AA-III 220 KV D/C at Rajarhat (PG)	2017-18	1.80					0.50	1.00	0.30
19	Rajarhat (PG) - NT AA IIC 220 KV D/C (Twin Moose)	2017-18	21.00					2.00	10.00	9.00
20	LILO of Arambag - Midnapur 220 KV D/C at CK Road	2017-18	36.00					3.50	18.00	14.50
21	LILO of Sagardighi - Gokarna 220 KV D/C at N.Raghunathgunj	2017-18	27.00					3.00	15.00	9.00
22	LILO of STPS - N.Bishnupur 220 KV S/C at Hura	2017-18	14.40					1.50	7.00	5.90
23	LILO of Satgachia-Krishnanagar 220 KV D/C at New Katwa	2017-18	36.00					3.50	18.00	14.50
24	LILO of IPCL - Egra 220 KV D/C at New Haldia NIZ	2018-19	3.60						0.50	2.00
25	LILO of Asansol - Durgapur 220 KV D/C at Andal	2018-19	3.60						0.50	2.00
Sub-total 220 KV Line:			757.70	0.00	0.00	45.50	215.94	265.50	158.06	70.50

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C. 132 KV

Sub-stations:

1	Domkol 132/33 KV GIS	2015-16	25.00			3.00	12.00	10.00		
2	Bajkul 132/33 KV GIS	2015-16	28.00			3.00	14.00	11.00		
3	Sonakhali 132/33 KV GIS	2015-16	25.00			3.00	12.00	10.00		
4	Mohitnagar 132/33 KV GIS	2015-16	28.00			3.00	14.00	11.00		
5	Narayanpur 132/33 KV GIS	2015-16	25.00			3.00	12.00	10.00		
6	Bhadrapur 132/33 KV GIS	2015-16	25.00			3.00	12.00	10.00		
7	Banarhat 132/33 KV GIS	2015-16	28.00			3.00	14.00	11.00		
8	Jagatballavpur 132/33 KV GIS	2015-16	25.00			3.00	12.00	10.00		
9	Panagarh 132/33 KV GIS	2015-16	28.00			3.00	14.00	11.00		
10	Jhalda 132/33 KV Sub-station	2015-16	25.00			3.00	12.00	10.00		
11	Bagula 132/33 KV Sub-station	2015-16	28.00			3.00	14.00	11.00		
12	Panpur (Shyamnagar) 132/33 KV GIS	2015-16	28.00			3.00	14.00	11.00		
13	Guskara 132/33 KV Sub-station	2015-16	28.00			3.00	14.00	11.00		
14	Debra (Panskura) 132/33 KV Sub-station	2015-16	28.00			3.00	14.00	11.00		
15	Rasulpur (Patrasayer) 132/33 KV Sub-stn.	2016-17	28.00				3.00	14.00	11.00	
16	Sonepur 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
17	Kalimpong 132/33 KV GIS	2016-17	35.00				4.00	18.00	13.00	
18	Amdanga 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
19	Serapole (Baduria) 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
20	Hasimara 132/33 KV GIS	2016-17	28.00				3.00	14.00	11.00	
21	Hamiltongunj 132/33 KV GIS	2016-17	28.00				3.00	14.00	11.00	
22	Kamakhyaguri 132/33 KV GIS	2016-17	25.00				3.00	12.00	10.00	
23	Renia 132/33 KV GIS	2016-17	28.00				3.00	14.00	11.00	
24	KWIC (Kona) 132/33 KV Sub-station	2016-17	25.00				3.00	12.00	10.00	
25	Belda 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
26	Salar 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
27	Nabagram 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
28	Bainchi (Banshberia) 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
29	Salanpur 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
30	Garbeta 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
31	Mayapur 132/33 KV Sub-station	2016-17	28.00				3.00	14.00	11.00	
32	Jangalpur 132/33 KV GIS	2017-18	25.00					3.00	12.00	10.00
33	Dubrajpur 132/33 KV Sub-station	2017-18	25.00					3.00	12.00	10.00
34	Sankrail 132/33 KV Sub-station	2017-18	28.00					3.00	14.00	11.00
35	Jellinghum 132/33 KV Sub-station	2017-18	25.00					3.00	12.00	10.00
36	Islampur 132/33 KV Sub-station	2017-18	28.00					3.00	14.00	11.00
37	Beldanga 132/33 KV Sub-station	2017-18	28.00					3.00	14.00	11.00
38	Manbazar 132/33 KV Sub-station	2017-18	28.00					3.00	14.00	11.00
39	Jagadishpur 132/33 KV Sub-station	2017-18	28.00					3.00	14.00	11.00
40	Minakha 132/33 KV Sub-station	2018-19	28.00						3.00	14.00
41	Ramnagar 132 /33 KV Sub-station	2018-19	25.00						3.00	12.00
42	Chanchal 132/33 KV Sub-station	2018-19	28.00						3.00	14.00
43	132 KV Switching Station near Lebong	2018-19	30.00						3.00	15.00
Sub-total 132 KV SS:			1177.00	0.00	0.00	42.00	236.00	410.00	305.00	140.00

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Transmission Lines:

1	Khejuria - Farakka 132 KV D/C (XLPE Cable)	2014-15	27.00		2.00	20.00	5.00			
2	LILO of Hizlee - Egra (BEL) 132 KV S/C at Kharagpur	2014-15	10.40		1.00	9.40				
3	New Town AA-III - New Town AA-I 132 KV D/C UG Cable	2014-15	57.00		4.00	30.00	23.00			
4	Kharagpur - Jhargram 132 KV D/C	2014-15	33.50			10.00	15.00	8.50		
5	Vidyasagar Park - Kharagpur WBIDC 132 KV D/C	2014-15	8.43			5.00	3.43			
6	Jeerat - Mohispota 132 KV D/C	2014-15	3.03			3.03				
7	Domjur - Chanditala 132 KV D/C	2014-15	4.77			4.77				
8	Laying of 2 nos. 132 KV D/C UG Cable Transmission Line from Sonarpur 132 KV Substation to Tower location AP-8	2014-15	90.00			10.00	45.00	35.00		
9	LILO of Gokarna - Rampurhat 132 KV S/C at Kuli	2015-16	2.40			1.00	1.40			
10	Purulia - Bagmundi 132 KV S/C Stringing of 2nd ckt. Of Purulia-Bagmundi 132 KV D/C	2015-16	8.00			1.00	6.00	1.00		
11	Najirpur - Domkol 132 KV D/C	2015-16	24.50			2.50	15.00	7.00		
12	LILO of N.Haldia - Egra 132 KV S/C at Contai	2015-16	0.70				0.70			
13	LILO of BTPS - Satgachia 132 KV S/C at Khanyan	2015-16	0.70				0.70			
14	Gokarna - Bhadrapur 132 KV D/C	2015-16	31.50			3.00	15.00	13.50		
15	Jagipara - Jagatballavpur 132 KV D/C	2015-16	10.50			1.00	6.00	3.50		
16	New Town AA-IIC - Narayanpur 132 KV D/C UG Cable	2015-16	17.00			2.00	8.00	7.00		
17	Birpara - Banarhat 132 KV D/C	2015-16	14.00			1.50	7.00	5.50		
18	Banarhat - Chalsa 132 KV D/C	2015-16	21.00			2.00	10.00	9.00		
19	KLC - Sonakhali 132 KV D/C	2015-16	49.00			5.00	25.00	19.00		
20	LILO of NJP - Moinaguri 132 KV S/C at Mohitnagar	2015-16	7.00			1.00	4.00	2.00		
21	LILO of NJP - Chalsa 132 KV S/C at Mohitnagar	2015-16	7.00			1.00	4.00	2.00		
22	Hizlee - Kharagpur - BEL - Egra 132 KV S/C	2015-16	49.00			5.00	25.00	19.00		
23	Mankar - Panagarh 132 KV D/C	2015-16	7.00			1.00	4.00	2.00		
24	LILO of Adisaptagram - Belmuri 132 KV D/C at Singur	2015-16	45.00			5.00	25.00	15.00		
25	LILO of New Haldia - Egra 132 KV S/C at Bajkul	2015-16	3.50			0.50	2.00	1.00		
26	LILO of New Haldia - Contai 132 KV S/C at Bajkul	2015-16	3.50			0.50	2.00	1.00		
27	Ranaghat - Bagula 132 KV D/C	2015-16	17.50			2.00	8.00	7.50		
28	Krishnanagar - Bagula 132 KV D/C	2015-16	12.60			1.50	6.00	5.10		
29	Titagarh - Mohispota 132 KV S/C UG Cable	2015-16	40.00			4.00	20.00	16.00		
30	Bagmundi - Jhalda 132 KV D/C	2015-16	24.50			2.50	12.00	10.00		
31	Dharampur - Panpur 132 KV D/C	2015-16	10.50			1.00	5.00	4.50		
32	Basirhat - New Town AA-III 132 KV D/C	2015-16	14.00			1.50	7.00	5.50		
33	LILO of Midnapur - Pingla 132 KV D/C at Debra	2015-16	28.00			3.00	14.00	11.00		
34	Bolpur - Guskara 132 KV D/C	2015-16	17.50			2.00	8.00	7.50		
35	Ukhra - Sonepur 132 KV D/C	2016-17	17.50				2.00	8.00	7.50	
36	Asansol - Sonepur 132 KV D/C	2016-17	17.50				2.00	8.00	7.50	
37	LILO of Bolpur - Sainthia 132 KV D/C at Sadaipur	2016-17	21.00				2.00	10.00	9.00	

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38	New PPSP - Bagmundi 132 KV D/C UG Cable	2016-17	7.00				1.00	4.00	2.00	
39	Kalimpong - Melli 132 KV D/C	2016-17	9.10				1.00	5.00	3.10	
40	Kalimpong - Chalsa 132 KV D/C	2016-17	54.60				5.00	25.00	24.60	
41	Alipurduar - Kamakhyaguri 132 KV D/C	2016-17	18.20				2.00	9.00	7.20	
42	Birpara - Hasimara 132 KV D/C	2016-17	17.50				2.00	8.00	7.50	
43	Hasimara - Hamiltongunj 132 KV D/C	2016-17	7.00				1.00	3.00	3.00	
44	Alipurduar - Hamiltongunj 132 KV D/C	2016-17	19.60				2.00	10.00	7.60	
45	Foundry Park - Jagatballavpur 132 KV D/C	2016-17	10.50				1.00	5.00	4.50	
46	Narayangarh - Pingla 132 KV D/C	2016-17	14.00				1.50	7.00	5.50	
47	Laxmikantapur - Sonakhali 132 KV D/C	2016-17	35.00				4.00	18.00	13.00	
48	New Bishnupur - Rasulpur 132 KV D/C	2016-17	21.00				2.00	10.00	9.00	
49	Extention of Kasba - Sonarpur 132 KV S/C to Renia	2016-17	8.40				1.00	4.00	3.40	
50	Joka - Renia 132 KV S/C UG Cable	2016-17	40.00				4.00	20.00	16.00	
51	LILO of Birpara - Coochbehar 132 KV S/C at Alipurduar	2016-17	7.00				1.00	3.00	3.00	
52	Amdanga - Panpur 132 KV D/C	2016-17	7.00				1.00	3.00	3.00	
53	LILO of Jeerat - Barasat 132 KV D/C at Amdanga	2016-17	7.00				1.00	3.00	3.00	
54	Barasat - Narayanpur 132 KV D/C	2016-17	14.00				1.50	7.00	5.50	
55	Jagadishpur - KWIC 132 KV D/C	2016-17	7.00				1.00	3.00	3.00	
56	LILO of Narayangarh - Egra 132 KV D/C Line at Belda	2016-17	7.00				1.00	3.00	3.00	
57	Ashokenagar - Serapole 132 KV D/C	2016-17	17.50				2.00	8.00	7.50	
58	Basirhat-Serapole 132 KV D/C	2016-17	17.50				2.00	8.00	7.50	
59	Belmuri - Bainchi 132 KV D/C	2016-17	28.00				3.00	14.00	11.00	
60	Arambag - Mayapur 132 KV D/C	2016-17	14.00				1.50	7.00	5.50	
61	New Chanditala - Mayapur 132 KV D/C	2016-17	24.50				2.50	14.00	8.00	
62	Asansol - Salanpur 132 KV KV D/C	2016-17	10.50				1.00	5.00	4.50	
63	LILO of CK Road - Bishnupur 132 KV D/C at Garbeta	2016-17	1.40				0.50	0.90		
64	LILO of BTPS - Dharampur 132 KV S/C at Kalyani	2016-17	1.40				0.50	0.90		
65	LILO of Gokarna - Katwa 132 KV D/C at Salar	2016-17	7.00				1.00	3.00	3.00	
66	LILO of Gokarna - N. Raghunathgunj 132 KV D/C at Nabagram	2016-17	1.40				0.50	0.90		
67	LILO of Howrah (DVC) - Kolkaghat (DVC) 132 KV S/C at Jangalpur	2017-18	0.70						0.70	
68	Amtola - Domkol 132 KV D/C	2017-18	21.00					2.00	10.00	9.00
69	NBU - Ujanoo - Siliguri 132 KV S/C	2017-18	7.00					1.00	4.00	2.00
70	Burdwan - Rasulpur 132 KV D/C	2017-18	21.00					2.00	10.00	9.00
71	Raina - Burdwan 132 KV D/C	2017-18	31.50					3.00	15.00	13.50
72	Durgapur - Panagarh 132 KV D/C	2017-18	14.00					1.50	7.00	5.50
73	LILO of Malda - Samsi 132 KV S/C Line at Gazol	2017-18	0.70						0.70	
74	LILO of Raigunj - Samsi 132 KV S/C Line at Gazol	2017-18	0.70						0.70	
75	LILO of Malda - Raigunj 132 KV S/C Line at Gazol	2017-18	0.70						0.70	
76	Termination of 132 KV D/C from Balurghat to Gazol point at Gazol	2017-18	4.00					0.50	2.00	1.50
77	New Chanditala - Jagadishpur 132 KV D/C	2017-18	10.50					1.00	5.00	4.50
78	Sadaipur - Dubrajpur 132 KV D/C	2017-18	10.50					1.00	5.00	4.50

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79	Bajkul - Jellinghum 132 KV D/C	2017-18	14.00					1.50	7.00	5.50
80	LILO of Mankar - Mahachanda 132 KV D/C at Burdwan	2017-18	7.00					0.50	3.50	3.00
81	LILO of TCF-3 - Dalkhola 132 KV D/C at Islampur	2017-18	7.00					0.50	3.50	3.00
82	Burdwan - Bainchi 132 KV D/C	2017-18	17.50					1.50	9.00	7.00
83	LILO of Kharagpur - Narayangarh 132 KV D/C at Sankrail	2017-18	28.00					3.00	14.00	11.00
84	Baruipur - Serakol 132 KV D/C	2017-18	7.00					0.50	3.50	3.00
85	Hura - Manbazar 132 KV D/C	2017-18	28.00					3.00	14.00	11.00
86	Kharta - Manbazar 132 KV D/C	2017-18	21.00					2.00	10.00	9.00
87	Amtola - Beldanga 132 KV D/C	2017-18	21.00					2.00	10.00	9.00
88	Debogram - Beldanga 132 KV D/C	2017-18	14.00					1.50	7.00	5.50
89	LILO of Gokarna - Lalgola 132 KV S/C at N.Raghunathgunj	2017-18	0.70						0.70	
90	LILO of Gokarna - Raghunathgunj 132 KV S/C at N.Raghunathgunj	2017-18	0.70						0.70	
91	LILO of Raghunathgunj - Lalgola 132 KV S/C at N.Raghunathgunj	2017-18	0.70						0.70	
92	Rampurhat - Bhadrapur 132 KV D/C	2017-18	17.50					2.00	8.00	7.50
93	N.Chanditala - Dankuni 132 KV D/C	2017-18	14.00					1.50	7.00	5.50
94	N. Katwa - Katwa 132 KV D/C	2017-18	10.50					1.00	5.00	4.50
95	N. Katwa - Guskara 132 KV D/C	2017-18	14.00					1.50	7.00	5.50
96	LILO of Midnapur - Bishnupur 132 KV S/C at CK Road	2017-18	1.40						1.40	
97	LILO of KLC - Sonakhali 132 KV D/C at Minakha	2018-19	7.00						1.00	3.00
98	Rammam-III - NJP 132 KV D/C	2018-19	84.63						8.00	25.00
99	Rammam-III - Switching Station 132 KV D/C	2018-19	13.65						1.00	5.00
100	LILO of Rmm-II - NBU 132 KV S/C at Switching Station	2018-19	1.82						0.50	1.32
101	LILO of Rmm-II - Lebong 132 KV S/C at Switching Station	2018-19	1.82						0.50	1.32
102	LILO of NBU - Lebong 132 KV S/C at Switching Station	2018-19	1.82						0.50	1.32
103	LILO of Ukhra - Sonepur 132 KV D/C Line at Andal	2018-19	21.00						2.00	10.00
104	LILO of Haldia - Haldia NIZ 132 KV D/C at New Haldia NIZ	2018-19	1.40							1.40
105	LILO of Tamluk - Haldia NIZ 132 KV D/C at New Haldia NIZ	2018-19	1.40							1.40
106	LILO of Sainthia - Rampurhat 132 KV S/C at Mayureswar	2018-19	0.70							0.70
107	LILO of Kuli - Rampurhat 132 KV S/C at Mayureswar	2018-19	0.70							0.70
108	LILO of Sainthia - Kuli 132 KV S/C at Mayureswar	2018-19	0.70							0.70
109	Serakol - Joka 132 KV S/C	2018-19	12.60						1.00	6.00
110	Gazol - Chanchal 132 KV D/C	2018-19	17.50						2.00	8.00
111	Samsi - Chanchal 132 KV D/C	2018-19	10.50						1.00	5.00
112	Contai-Ramnagar 132 KV D/C	2018-19	10.50						1.00	5.00
113	Egra-Ramnagar 132 KV D/C	2018-19	17.50						2.00	8.00
Sub-total 132 KV Line:			1741.67	0.00	7.00	142.70	386.73	489.80	391.20	223.36

Total			7099.55	12.28	48.00	420.20	1559.17	1957.32	1735.64	1009.36

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Annexure D

ABSTRACT STATEMENT OF CAPEX ON NEW & ONGOING TRANSMISSION PROJECTS
AS PER ROLLING PLAN AND AS PER TARIFF PETITION

New Transmission Projects — **Rs Lakhs**

Sl. No.	Description	Proj. Cost (Supp + Erec.)	Exp. Upto 31.03.2013	2013-14		2014-15		2015-16		2016-17	
				R.P.	T.P	R.P.	T.P	R.P.	T.P	R.P.	T.P
1	400 kV Substation	90500.00	1228.00	1700.00	1805.00	8000.00	7120.00	20000.00	15864.00	20152.00	17121.20
2	400 kV Transmission Lines	170118.00	0.00	2000.00	2000.00	7000.00	4900.00	38050.00	13625.00	33350.00	19090.00
3	220 kV Substations	81700.00	0.00	400.00	425.00	4000.00	3760.00	14000.00	6765.00	25700.00	14165.00
4	220 kV Transmission Lines	75770.00	0.00	0.00	0.00	4550.00	4550.00	21594.00	6647.00	26556.00	13873.50
5	132 kV Substations	117700.00	0.00	0.00	0.00	4200.00	600.00	23600.00	3920.00	41000.00	11320.00
6	132 kV Transmission Lines	174167.00	0.00	700.00	860.00	14270.00	11050.46	38673.00	18276.87	48980.00	20594.00
	Total	**709955.00**	**1228.00**	**4800.00**	**5090.00**	**42020.00**	**31980.46**	**155917.00**	**65097.87**	**195738.00**	**96163.70**
Ongoing Transmission Projects											
1	400 kV Substation	12505.00	11737.00	786.45	786.45	0.00	0.00	0.00	0.00	0.00	0.00
2	400 kV Transmission Lines	20923.00	6434.00	1387.22	1387.22	7000.00	3049.33	4542.00	9150.67	0.00	1342.37
3	220 kV Substations	16359.00	3286.00	5850.59	5850.59	6764.00	7279.64	903.00	903.31	0.00	0.00
4	220 kV Transmission Lines	60299.00	30623.00	11913.50	11913.50	17263.00	11249.70	0.00	6612.54	0.00	0.00
5	132 kV Substations	17702.00	5768.00	8731.41	8731.41	5544.00	6326.05	60.00	59.95	0.00	0.00
6	132 kV Transmission Lines	18744.00	7242.00	6272.32	6272.32	6105.00	5994.61	0.00	2472.93	0.00	0.00
	Total	**146532.00**	**65090.00**	**34941.49**	**34941.49**	**42676.00**	**33899.33**	**5505.00**	**19199.40**	**0.00**	**1342.37**
	Grand Total	**856487.00**	**66318.00**	**39741.49**	**40031.49**	**84696.00**	**65879.79**	**161422.00**	**84297.27**	**195738.00**	**97506.07**

R.P. = Rolling Plan; T.P. = Tariff Petition

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West Bengal State Electricity Transmission Company Ltd
Summary Capex Statement (2013-14 to 2016-17)

(Figure Rupees in Lakh)

Sl. No.	Description of Work (Summarised)	Base Year	Ensuing Years		
		2013-14	2014-15	2015-16	2016-17
1	UNDER PLAN SCHEME:				
A.	Plan Scheme -On Going				
	J.I.C.A				
	NABARD-IX				
	Sub Total (A)	0.00	0.00		
B.	Plan Scheme -Up-Coming				
	J.I.C.A				
	NABARD-XV				
	Sub Total (B)	0.00	0.00		
	Total Under Plan Scheme (A+B)	**0.00**	**0.00**		
2	UNDER OUTSIDE PLAN SCHEME:				
A.	Outside-Plan Scheme -On Going (Project)				
	(a) Line	20051.49	20424.93	19278.00	1304.49
	(b) Sub-Station	17227.05	14546.54	1011.42	0.00
	(c) Deposit Work	1823.65	1298.57	0.00	0.00
	(d) Survey Works	140.00	100.00	100.00	100.00
	Sub Total (A)	39242.20	36370.04	20389.43	1404.49
B	Outside-Plan Scheme -Up-Coming (PROJECT)-				
	(a) Line	2969.94	20848.69	42299.56	60050.15
	(b) Sub-Station	2458.04	12840.18	29406.31	47071.63
	(c) Deposit Work	160.00	1517.00	0.00	0.00
	(d) Survey Works				
	Sub Total (B)	5587.98	35205.87	71705.87	107121.79
	TOTAL UNDER PROJECT (A+B)	**44830.17**	**71575.91**	**92095.29**	**108526.28**
C.	Outside Plan Scheme-On going(O&M)-Line	1755.60		0.00	0.00
	-On going(O&M)-Sub-Stn	5266.79			
	-On going(O&M)-Deposit Work	3260.46	2319.81	0.00	0.00
	Sub-total (On-going)	**10282.84**	**2319.81**	**0.00**	**0.00**
	-Up-coming (O&M)-Line		2541.89	3116.38	3447.56
	-Up coming(O&M)-Sub-Stn		7625.68	9349.14	10342.67
	-Up coming(O&M)-Deposit Work				
	Sub-total (Up-coming)	0.00	10167.57	12465.52	13790.23
	TOTAL UNDER O&M	**10282.84**	**12487.38**	**12465.52**	**13790.23**
D.	Outside- Plan - Ongoing (Communication, Testing & IT)	**5999.42**	**6654.49**	**9373.99**	**9115.89**
	(a) Communication	4685.15	5623.93	8242.68	8327.75
	(b) Testing	661.50	157.50	262.50	315.00
	(c) IT	652.77	873.05	868.80	473.14
E.	Outside- Plan - Corporate Hd.Qtr & Other Units	546.00	556.50	630.00	735.00
	Total Under Outside Plan Scheme (A+B+C+D+E)	61658.44	91274.28	114564.80	132167.39
	Less: Emp. & Admin. Cost incl. above	2537.18	3963.96	5262.33	5977.10
	Less: Capitalised Interest incl. above	2993.44	2795.84	3955.84	6548.30
	Total Capital Expenditure - Base Cost (1+2)	**56127.81**	**84514.48**	**105346.62**	**119641.99**
3	Expenses Capitalised				
	a) Interest Capitalised	2993.44	2795.84	3955.84	6548.30
	b) Emp. & Adm. Cost Capitalised incl. above	2537.18	3963.96	5262.33	5977.10
	Total Expenses Capitalised	**5530.63**	**6759.80**	**9218.18**	**12525.40**
	Total Capital Expenditure (1+2+3)	**61658.44**	**91274.28**	**114564.80**	**132167.39**

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Annexure - F

Categorywise Segregation of Capitalised Assets

Figures in Rs Lakh

Particulars	Depn. Rate						Total Excluding Land
Depreciation Rate-wise asset breakup:	0.00%	1.80%	2.57%	3.60%	6.00%	18.00%	
2013-14							
Land & land development	500.00						
Civil Works & Buildings		448.69					
Batteries						36.40	
Lighting Arrestors					36.40		
Transformers,Switchgear, etc.				35874.04			
Meters					554.40		
Communication Equipment					10.50		
Information Technology					652.77		
Testing Equipment					107.10		
Office Equipment					546.00		
Overhead and Underground Lines			57044.94				
Rate-wise asset breakup	**500.00**	**448.69**	**57044.94**	**35874.04**	**1907.17**	**36.40**	**95311.24**
2014-15		**1.80%**	**2.57%**	**3.60%**	**6.00%**	**18.00%**	
Land & land development	650.00						
Civil Works & Buildings		318.26					
Batteries						26.11	
Lighting Arrestors					26.11		
Transformers,Switchgear, etc.				25740.14			
Meters					0.00		
Communication Equipment					3868.23		
Information Technology					873.05		
Testing Equipment					157.50		
Office Equipment					556.50		
Overhead and Underground Lines			40718.43				
Rate-wise asset breakup	**650.00**	**318.26**	**40718.43**	**25740.14**	**5481.40**	**26.11**	**72284.34**
2015-16		**1.80%**	**2.57%**	**3.60%**	**6.00%**	**18.00%**	
Land & land development	600.00						
Civil Works & Buildings		280.45					
Batteries						23.04	
Lighting Arrestors					23.04		
Transformers,Switchgear, etc.				22709.34			
Meters					0.00		
Communication Equipment					5108.36		
Information Technology					868.80		
Testing Equipment					262.50		
Office Equipment					630.00		
Overhead and Underground Lines			35885.91				
Rate-wise asset breakup	**600.00**	**280.45**	**35885.91**	**22709.34**	**6892.70**	**23.04**	**65791.43**
2016-17		**1.80%**	**2.57%**	**3.60%**	**6.00%**	**18.00%**	
Land & land development	700.00						
Civil Works & Buildings		484.16					
Batteries						39.43	
Lighting Arrestors					39.43		
Transformers,Switchgear, etc.				38870.00			
Meters					0.00		
Communication Equipment					7504.00		
Information Technology					473.14		
Testing Equipment					315.00		
Office Equipment					735.00		
Overhead and Underground Lines			19361.23				
Rate-wise asset breakup	**700.00**	**484.16**	**19361.23**	**38870.00**	**9066.57**	**39.43**	**67821.39**

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