WEST BENGAL
STATE ELECTRICITY
TRANSMISSION COMPANY LIMITED

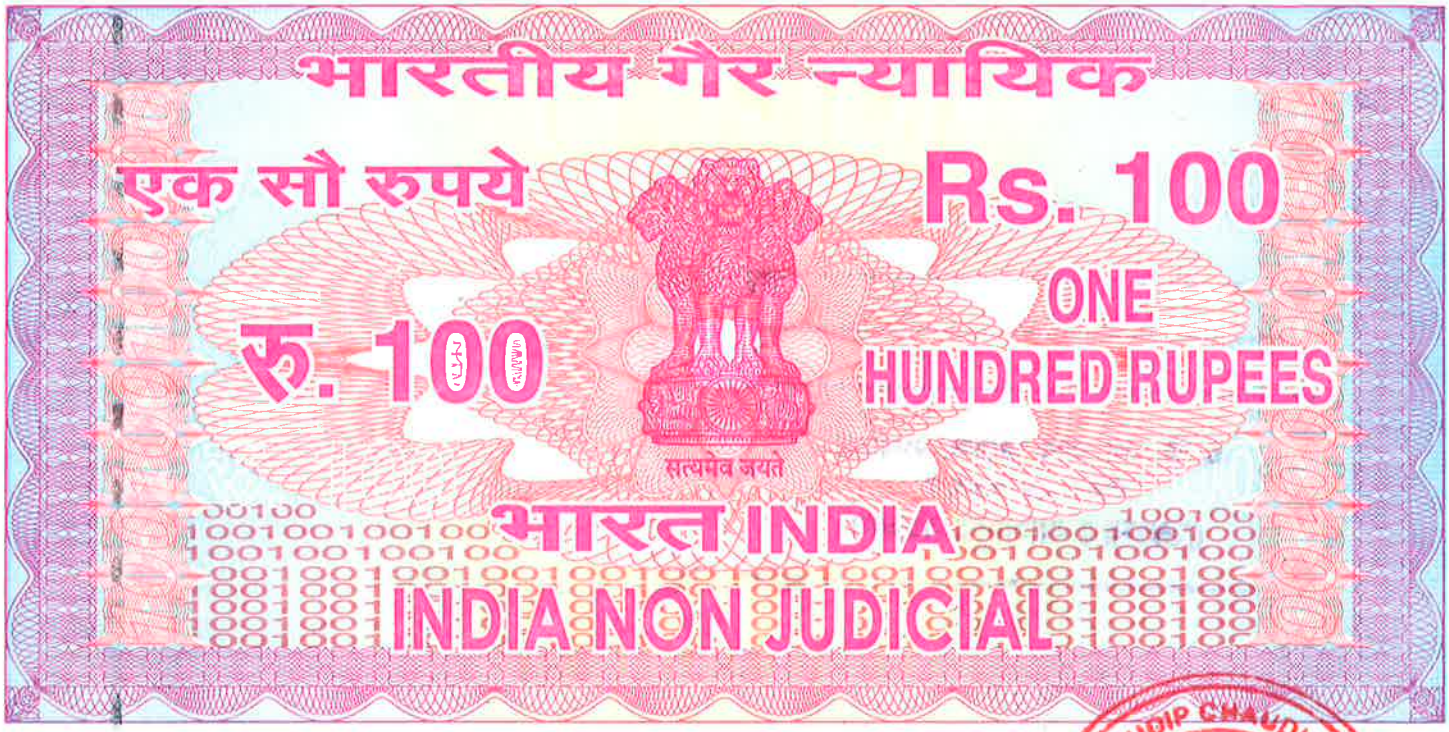
WBSETCL

VOLUME-1

TARIFF PETITION FOR THE YEAR 2017-18

Submitted to the

HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION



पश्चिमबंग पश्चिम बंगाल WEST BENGAL

W 376404

SUDIP CHAUDHURI
NOTARY
BIDHANNAGAR COURT 24 PGS.(N) GOVT OF INDIA
6/8/2008

BEFORE THE NOTARY PUBLIC
AT BIDHANNAGAR
DIST.-NORTH 24 PARGANAS

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 2017-18 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.

S. CHAUDHURI
★ NOTARY ★
GOVT. OF INDIA
Regd. No.-6584/08
Bidhannagar Court
Dist.-North 24 Pgs.

20 DEC 2016

AMITA
Addl. Chief Engineer
WBSETCL
Vidyut Bhaban, Kol – 91

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ক্রেতা Vizenda Singh.

W.B.S.E.T.C. 2.

সাং Bidyut Bhavan, Salt Lake.
Kol-91.

এ. ডি. এস. আর. অফিস, মগরাহাট
দক্ষিণ ২৪ পরগণা
ভেণ্ডার : আসাদুর রহমান

তাং ৬/১২/১১ স্বাক্ষর

SUDIP CHAUDHURI
NOTARY
68P4/2008
BIDHANNAGAR COURT 24 PGS.(N) GOVT OF INDIA

I, Amitava Nag, son of Amulya Kumar Nag, aged 55 years, residing at 54/2/1/2 Andul Road, Howrah-711109 do solemnly affirm and say as follows:

1. I am the Additional 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 20th day of December 2016 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.

Place: Kolkata
Date: 20.12.2016

Deponent
AMITAVA NAG
Addl. Chief Engineer, RA
WBSETCL
Vidyut Bhaban, Kol – 91

S. CHAUDHURI
★ NOTARY ★
GOVT. OF INDIA
Regd. No.-6584/08
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BEFORE THE HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

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In the matter of: Petition for determination of Tariff/ charges for transmission of electricity during the year 2017-18 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 and orders dated 29.11.2016 in File No: B-11/20 and 14.12.2016 in Case No : SM-15/16-17

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Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhavan, Kol – 91

3. Revenue from transmission of energy for the year 2017-18 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 2017-18 based on the revenue expenditure estimated for the said years.

SUMMARISED REVENUE REQUIREMENT:

5. Total summaries revenue requirement of WBSETCL for the year 2017-18has been estimated at Rs **157772.17** Lakhs.The allocated transmission capacity during the year 2017-18 have been estimated as 6634 MW. The transmission charge in Rupees per MW per Month has been computed at Rs. **198186.32/-** for 2017-18.

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

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

PRESENTATIONS :

6. 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

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

8. 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:

9. 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.

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
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AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

1. INTRODUCTION

1.1. 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) on the basis 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 to 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.

1.2. Under the MYT framework, the current control period is the fourth control period which is ending on 31st March 2017. Regarding the fifth control period, the Commission vide order dated 04.05.2016 in Case No. SM-13/16-17, decided that the fifth control period starting from the ensuing year 2017-18 will also consist of three ensuing years and the tenure of the fifth control period shall be from the year 2017-18 to 2019-20. As per WBERC Tariff Regulations, the tariff application for fifth control period under Multi Year Tariff (MYT) framework was required to be submitted by WBSETCL 120 days in advance of the effective date of the said control period. The effective date of the fifth control period is 1st April, 2017. As such, WBSETCL was required to submit the MYT tariff application on 30.11.2016 for the fifth control period. However the Hon'ble Commission vide order dated 29.11.2016 in File No. B-11/20, as per the terms of regulation 8.3 of the Tariff Regulation, postponed the filing of tariff petitions for fifth control period for all licensees including the transmission licensee WBSETCL. Subsequently, the Hon'ble Commission vide order dated 14.12.2016 in Case No. SM-15/16-17, decided that the fifth control period shall be for one year and consist of 2017-18 only, stating the order to have been issued in supersession of the order dated 04.05.2016 in Case No. SM-13/16-17. The Commission further through a separate order dated 14.12.2016 issued in partial modification of its order dated 29.11.2016 in File No. B-11/20, specified that the filing of tariff petition for 5th control period as decided in order dated 14.12.2016 shall have to be made by the licensees and the generating companies latest by 30.12.2016.

1.3. Accordingly, WBSETCL is filing the present tariff application for the ARR and tariff determination of FY 2017-18.

2. ASSESSMENT OF ENERGY TRANSMITTED BY WBSETCL

2.1 Previously West Bengal State Electricity Distribution Company Limited (WBSEDCL) was the sole long term user of the state transmission system. From 1st May 2016, CESC Limited had entered into an Agreement with WBSETCL for availing Intra State

Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

Long Term Open Access (LTOA) up to 9th February 2040 for 150 MW allotted capacity in accordance with West Bengal State Electricity Regulatory Commission (WBERC) (Open Access) Regulations, 2007 for transmission of HEL's power from Shubhasgram 400 kV sub-station of Power Grid Corporation of India Ltd to Kasba and Howrah interconnecting points with WBSETCL's system. Currently, provisional bills are being raised to CESC for monthly transmission charges as per WBERC's declared tariff rates. To avoid over recovery of revenue, and to pass the benefit to the existing user, the amount billed to CESC is being subtracted from the monthly bill of WBSEDCL. WBSETCL will implement any further directive or order of the Hon'ble Commission on the said matter.

2.2 The Total transmission of energy (MU) including the power transmission of CESC through WBSETCL system for FY 2017-18 has been projected by State Load Despatch Center (SLDC) which is given in A(1) of Form E(t) of Vol-II of the petition.

2.3 The total Allocated transmission capacity (MW) including 150 MW LTOA of CESC has been projected as 6634 MW for FY 2017-18 considering forecasted average of daily peak demand on annual basis. [Ref. Form 1.14]

3. 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 heads for Consumption of Stores, Repairs & Maintenance, Telephones, and Other Management & Administrative Expenses have been estimated for FY 2016-17 and projected for FY 2017-18 on the basis of escalation rates calculated for projection of Operations and Maintenance (O&M) expenditure. The O&M expenditure has been projected based on the methodology adopted by Central Electricity Regulatory Commission in their (Terms and Conditions of Tariff) Regulations 2014 for calculation of O&M norms .. This methodology is based on the estimated business growth in terms of sub-station capacity and transmission line length and the actual increase observed in past fiscal years on account of inflation.

3.1.2 **Employees Cost:**

Average employee cost per employee has been projected for FY 2017-18 on the basis of Compound Annual Growth Rate (CAGR) of the actual average employee cost per employee incurred for the 4 year period ending in FY 2015-16.

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

The number of employees for FY 2017-18 has been projected on the basis of approved manning pattern for the various operational units of the Company and after taking into account the projected business growth (additions of substations and lines), existing vacancies, future retirements and ongoing recruitments. The number of new recruits has been projected to be 240, while the number of retirements expected for the fiscal year is 101. The total number of employees projected for FY 2017-18 is 2794, which is well within the total strength arrived at on the basis of normative manning parameters as laid down under the WBERC Tariff Regulations. The normative manpower in FY 2015-16 was 4400 based on WBERC Tariff Regulations, as also specified in WBSETCL's APR petition. In this regard, it is also submitted that the recruitment of FY 2016-17 for 421 no. of posts is ongoing and approval from the State Government for recruitment of additional 240 no. of posts in the FY 2017-18 has also been obtained.

3.1.3 The necessary break-up for all employees of the Company have been provided in the prescribed format in Form 1.17 (h).

3.1.4 Employee Costs shown in Forms 1.13 and 1.17 during different fiscal 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 FY 2017-18, the total capital expenditure has been projected to be INR 155237.95 lakhs, while assets capitalisation has been projected to be INR 129411.06 lakhs, considering the status of the ongoing projects and planned upcoming Projects. The detailed scheme wise break up of ongoing capital expenditure and new works along with the estimated year of completion is provided in Annexure B.

3.2.1 Advance Against Depreciation

Details of advance against depreciation appear in Form 1.17 (e) for FY 2017-18 based on the depreciation amount and the loan repayment schedule.

3.3.0 <u>Form 1.17</u>

O&M Cost:

In the absence of any specific methodology specified in WBERC Tariff Regulations for escalating O&M cost, the CERC norms has been adopted, considering 70% weightage of O&M expenses for sub-station expenses and 30% weightage for transmission line expenses.

SATYAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

O&M cost per MVA and O&M cost per CKM have been projected for the control period on the basis of CAGR of the actual expenses incurred for the four financial year period ending in FY 2015-16, after accounting for 10% margin over and above the effective CAGR in line with the methodology prescribed in CERC regulations to mitigate the risks of inflation in future fiscal years and to encourage the company to undertake required O&M works to ensure reliability of supply and health of assets. It is further submitted that for sustaining the performance of achieving normative availability of more than 99.75% (the prescribed norms as per WBERC Tariff Regulations), the Company have to accordingly spend on proper maintenance of its assets. As per the perspective plan of the company, 753 CKM of transmission line and 3082.5 MVA of sub-station capacity has been planned to be added in FY 2017-18. Annual sub-station maintenance expense has been estimated by multiplying the projected transmission capacity and O&M cost per MVA. Annual line maintenance expense has been estimated by multiplying the projected transmission network length and O&M cost per CKM. Annual O&M cost is obtained by adding the annual O&M cost for sub-stations and transmission lines. Based on these projections, the escalation factor for O&M cost has been calculated for FY 2017-18. Using this method and on the basis of business growth projected for these fiscal years, the consolidated annual escalation for total O&M expenditure for FY 2016-17 and FY 2017-18 comes to 15.3%, 13.2% respectively.

3.3.1 Expenditures on the heads of Rent, Repairs & Maintenance, Travelling, Telephone & Telex and General Establishment Charges have been projected for FY 2017-18 by using the escalation factor estimated by the O&M cost projection methodology stated in Paragraph 3.3.0 above.

3.3.2 Estimated amount of Rates & taxes for FY 2016-17 have been projected considering the CAGR for the last four fiscal years ending in FY 2015-16. Rates & Taxes payable in FY 2017-18 has been projected with an annual increase of 5.3% over a base tax outgo of Rs 132.87 lakhs anticipated in FY 2016-17. However, this being completely uncontrollable, shall be subject to true-up based on actual data of the respective fiscal year.

3.3.3 Details of Interest on borrowed capital on Capital Account and on Revenue Account for each of the fiscal years from FY 2012-13 to FY 2017-18 have been provided in Form C for the relevant fiscal years. The interest expense included in Form 1.17 is net of interest capitalized.

AMITAVA NAG
Dy. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

3.3.4 Interest on working capital has been claimed based on the Regulation 5.6.5 of the West Bengal Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2011 ("the Tariff Regulations, 2011), and are detailed in Form 1.17 (b).

3.3.5 Details of Other Finance Charges have been provided for FY 2017-18 in Form 1.17 (c). Component wise break-ups of Guarantee Commission, Service fee have been projected separately based on the actual figures of previous years.

3.3.6 Consultancy fees incurred in FY 2016-17 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 fiscal years as well, expenditure on this head for FY 2017-18 has been projected on the basis of the escalation factor estimated for year-on-year growth calculated by the O&M cost projection methodology defined in Paragraph 3.3.0.

3.3.7 The requirement of audit under various statutes and requirement of Auditors' Certificates has increased manifold over the past few fiscal years. It would be appreciated that such fees are determined on the basis of the nature of the job and degree of involvement required. The Audit and Certification Fees paid by the Company in the last two fiscal years is tabulated below. 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 each year.

Apart from the above, the Company had adopted 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 1st April 2007, erstwhile WBSEB was unbundled into WBSEDCL and WBSETCL, and following reorganization of the organization structure in August 2010, there are at present 125 numbers of Auditable Units under the purview of internal audit the number of auditable units

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Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

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 FY 2010-11 onwards and technical audit scope has also been considerably increased from FY 2015-16. Accordingly, the same has been outsourced to professional firms in absence of adequate manpower. Further as per the requirement of the Companies Act, the Company has to ensure Compliance to all the laws and accordingly professional firms/legal firms are being engaged for Compliance Audit.

In view of the above and taking into consideration inflationary pressure on such fees, Auditors Fees and Expenses have been projected to increase by the escalation factor estimated for year-on-year growth calculated by the O&M cost projection methodology defined in Paragraph 3.3.0.

Rs. Lakhs

Nature of Audit/Service	FY 2014-15	FY 2015-16
Statutory Audit Fees and Expenses	8.99	9.26
Internal Audit Fees and Expenses	12.82	12.58
Out of Pocket Expenses of Auditors	1.84	8.67
Cost Audit Fee	1.01	1.16
Tax Audit Fee	1.12	1.14
Other Audit Fees	15.41	15.44
Total	**41.18**	**48.25**

3.3.8 WBSETCL, since its inception, has arranged security of its establishments through hiring of personnel from security agencies or through deployment of Home Guard 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. Cost of outsourced security personnel for the ensuing period has been projected on the basis of escalation factor estimated by the O&M cost projection methodology defined in Paragraph 3.3.0. This being completely uncontrollable, shall be subject to true-up based on actual data of the respective fiscal year

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

3.3.9 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. Cost of vehicle expenses for the ensuing period has been projected on the escalation factor estimated by the O&M cost projection methodology defined in Paragraph 3.3.0. These expenses being uncontrollable, shall be subject to true-up based on actual data of the respective fiscal year.

3.3.10 Basis of computation of Taxes on Income/ Profits for the fiscal years FY 2016-17 and FY 2017-18 is provided in Annexure A.

Income tax submission as provided in Tariff petition is a provisional claim, unlike in Annual Performance Review (APR) petition where it is based on the actual outgo. The difference between the actual and projected income tax, which is uncontrollable in nature, shall be claimed in the APR petition. The tax rates have been calculated both based on the Minimum Alternate Tax (MAT) rates on booked profit as well as the corporate tax rates on the income tax profit calculated based on income tax depreciation rates. The lower of the two has been considered in the tariff projection. It is observed that because of Advance against Depreciation and Interest on Normative Loan being included in Annual Revenue Requirement (ARR), the profits booked is coming higher than the normative return on equity. As such the tax on income from the MAT rate is coming higher than the corporate tax rate considered on income tax profit. The Commission is requested to consider this method and accordingly approve the income tax.

3.3.11 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 year FY 2017-18:

Rs Lakhs

Nature of Fee	**FY 2017-18**
Annual License Fee	227.39
APR Filing Fees	11.37
Total	**238.76**

3.3.12 Cost of Capital to The West Bengal Power Development Corporation Limited (WBPDCL) relates to the cost of the evacuation line from Bakreswar Thermal Power Station financed by WBPDCL, shall be payable to WBPDCL as per determination of tariff for WBPDCL by the Hon'ble Commission. The amount

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

projected for FY 2016-17 and FY 2017-18 is Rs. 4676.26 and Rs 4910.07 considering the directives of of Commission's Order dated 28.10.2016.

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

3.3.14 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 for the purpose of arriving at the Revenue from Transmission Charge in FY 2017-18.

3.4.0 Form 1.18

3.4.1 Form 1.18 provides details of Original Cost of Fixed Assets, while Form 1.18 (a) provides the breakup of Capital Works in Progress in accordance with the modified Perspective Plan for the Company. The Company has assumed no retirement of assets during the control period, however any cost of retirement of asset being uncontrollable in nature shall be allowable if claimed in the APR filings. 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.

3.4.2 Forms 1.18 (c) (i) provides details of Investments made by the Company and planned investments in FY 2017-18. Such investment include statutory investments and investments required to be made of the annual appropriations of interest earned on the investments of the Reserve for Unforeseen Exigencies in subsequent fiscal years.

3.4.3 Form 1.18 (c) (ii) provides details of investment income. The income on investment has been projected on the basis of current trend of interest rates

3.5.0 Form 1.19

3.5.1 Capital Expenditure in FY 2017-18, together with the requisite details of expenditure on ongoing and new capital schemes are provided in Forms 1.19 (a) to 1.19 (c).

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

3.6.0 Form 1.20

3.6.1 Details of Average Equity entitled to normative Return on Equity (ROE) is provided in Form 1.20 (a). The lower of actual or normative equity contribution on net addition to fixed assets in FY 2017-18 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).

3.7.0 Form 1.21

3.7.1 As per the APR Order for FY 2011-12, the Hon'ble Commission has directed that no further appropriations to Reserve for Unforeseen Exigencies be made from FY 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 upto FY 2012-13.

3.7.3 Recovery of Rs 4471.26 lakhs already approved as APR adjustment by the commission in its order dated 10th June 2014 in the case no. APR(R)-4/13/14 in respect of review of APR order for FY 2011-12 along with the amount claimed by the Company in its APR Petitions for the fiscal years FY 2013-14, FY 2014-15 and FY 2015-16 amounting to INR 53.19 crores, INR 135.12 crores and INR 51.10 crores respectively has been proposed to be claimed in 3 equal annual instalments commencing from the Financial year 2017-18. Accordingly a total adjustment of INR 94.71 crores is included for the FY 2017-18 under the head "Special Allocation". It is submitted that the carrying cost on this amount as applicable maybe be considered for being allowed by the Honourable Commission while determining the Allowable Adjustments.

3.8.0 Form 1.22

Amount recoverable as Return on Equity, computed on the average equity base for FY 2017-18, has been computed on the basis of the applicable ROE rate of 15.5 % for the Control Period.

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

3.9.0 Forms 1.23 and 1.24

Pending quantification of actual T&D losses for FY 2017-18, 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.

3.12.0 Form C

Details of existing and projected loans and other borrowings on which interest is payable is provided in Form C. The forms also take into account the agreed repayment terms of the existing loans and similar repayment tenure 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 fiscal 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 fiscal years covered under the Tariff Petition.

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

ANNEXURE - A		
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)
INCOME	2016-17	2017-18
Revenue from Operations	120791.42	157772.17
Less: Rebate	0.00	0.00
Net Revenue from Operations	120791.42	157772.17
STOA Charges	6342.04	6342.04
Scheduling Charges and SLDC Charges	1494.86	1569.60
Other Income	2360.41	2454.32
TOTAL	**130988.73**	**168138.14**
EXPENDITURE		
Transmission Charges	4676.26	4910.07
Repairs & Maintenance Expenses	5506.42	6232.37
Employees Cost	20960.78	24189.63
Administrative & General Expenses	2382.69	2664.58
Outsourced Expenses	2806.91	2878.26
ERPC Charges	16.00	16.00
ULDC Charges	310.10	341.11
SUB TOTAL	**36659.17**	**41232.03**
EBDIT	**94329.56**	**126906.10**
Depreciation & Related Debits (1)	19529.58	25005.20
Interest & Finance Charges	26056.42	36850.81
SUB TOTAL	**45586.00**	**61856.01**
Profit/(Loss) before Tax and Prior Period	**48743.56**	**65050.10**
Adjustments		
Net Prior Period Income/(Expenditure)		
Profit/(Loss) before Tax (2)	**48743.56**	**65050.10**
Less:Provision For Taxation (Max of A & B)	**9752.49**	**13015.06**
Net Profit for the year(After Tax)	38991.07	52035.04
Reserve for Unforeseen Exigencies	623.26	688.81
Debenture Redemption Reserve	1757.50	1757.50
Transfer to General Reserve	36610.31	49588.72
Income Tax Depreciation (3)	41926.50	53681.67
Adjusted Profit(for Income Tax Purpose) =	26346.64	36373.63
(2+1-3)		
Tax at MAT rate - - 20.00775% (A)	9752.49	13015.06
Tax at Normal rate ---- 33.99 % (B)	8955.22	12363.40

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Projected Expenses of SLDC

Particulars	FY 2016-2017	FY 2017-18
SLDC Charges		
R&M	7391000.00	7989000.00
Administrative Charges	4762000.00	5080000.00
Bank Charges	5000.00	10000.00
Emp Cost	48000000.00	57600000.00
ULDC	33830000.00	37212000.00
Total Revenue Expenditure - A	93988000.00	107891000.00
Capital Expenditure - B	800000.00	1000000.00
Total Expenditure - C = A + B	94788000.00	108891000.00
Income		
Sch Charges	3723715.00	3909901.00
App Fees	3600000.00	3780000.00
Int Inc	60928759.05	63975197.00
Total Income - D	68252474.05	71665098.00
Net SLDC Charges = C - D	26535525.95	37225902.00

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Annexure C

Perspective Plan for 2017-18 to 2021-22

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Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

West Bengal State Electricity Transmission Company Ltd.

(A West Bengal Government Enterprise)

CIN : U40101WB2007SGC113474

Office of the Chief Engineer

Central Planning Department

Annexure - A

Inter Office Memo

Sub. : Perspective Plan of WBSETCL up to 2021 - 22.

Dear Sir,

The Perspective Plan of WBSETCL for XIII Plan Period (2017-18 to 2021 – 22) has been approved by the Board of Directors in its 53rd Meeting held on 28th July 2016, in modification of approved Rolling Plan of WBSETCL for the period up to 2018-19.

The Perspective Plan has been approved towards feasibility study, construction of new Sub-station, augmentation of transformer capacity and construction of transmission lines with a provision of detailed review on yearly basis.

One Copy of the Approved Perspective Plan is enclosed herewith for information and further necessary action please.

Enclo : as above.

07/9/16

(Arundhati Ghosh)

Chief Engineer : CPD

Memo No. :CE/CPD/Perspective Plan/ 1089(1-7) Dated 07/09/2016

Distribution with Enclosure :

1. The Managing Director, WBSETCL
2. The Director (Projects) / (Operations) / (F&A), WBSETCL.
3. The Director (Dist.) / (Proj.), WBSEDCL.
4. The Chief Engineer, Engineering / O&M / O&M Construction / Projects – I / Projects – II / Procurement / Corporate / Testing / Communication / SLDC, WBSETCL
5. The Chief Engineer, P&E Dist / Dist, WBSEDCL
6. The General Manager, (HR&A) / (F&A) WBSETCL .
7. The Addl. Chief Engineer, RAC, WBSETCL .

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Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol - 91

07/9/16

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Annexure - B

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
400 kV New Sub-station	1	New PPSP 400 kV GIS	400		113.93	2017-18	14.49	60.00	39.44				
	2	New Katwa 400/220 kV GIS	400/220	1000.0	224.33	2019-20		67.30	112.17	44.87			
	3	New Haldia NIZ 400/220 kV GIS	400/220	630.0	203.33	2021-22				61.00	101.67	40.67	
				1630.0									
400 kV Augmentation on existing Sub Station	1	New Chanditala	400/220	315.0	12.58	2017-18		8.81	3.77				
	2	Durgapur	400/220	315.0	18.25	2018-19		12.77	5.47				
	3	Gokarna	400/220	315.0	19.91	2019-20			13.94	5.97			
	4	New Chanditala	400/220	315.0	21.57	2020-21				15.10	6.47		
	5	New Katwa	400/220	315.0	23.23	2021-22					16.26	6.97	
		Total 400 kV MVA		**1575.0**	**637.12**		14.49	148.88	174.79	126.93	124.39	47.63	
220 kV New Sub Station	1	Barasat 220 kV GIS	220/132	320.0	55.13	2017-18	5.97	21.59	22.29	5.28			
	2	New Sagardighi 220 kV GIS	220/132	320.0	56.68	2017-18	10.76	30.52	15.40				
			132/33	100.0									
	3	New Town AA-IIC 220 kV GIS	220/132	320.0	98.73	2018-19	27.50	31.66	20.00	19.57			
			220/33	160.0									
	4	Rejinagar 220 kV GIS	220/132	320.0	76.37	2018-19	15.27	30.55	20.00	10.55			
			132/33	100.0									
	5	Gazol 220/132/33 kV GIS	220/132	320.0	93.17	2018-19		27.95	46.59	18.63			
			132/33	100.0									
	6	Mahachanda 220 kV GIS	220/132	320.0	58.00	2019-20		17.40	29.00	11.60			
	7	Mayapur 220/33 kV GIS	220/33	100.0	65.00	2020 - 21			19.50	32.50	13.00		
	8	Kotasur 220/132 kV GIS	220/132	320.0	71.00	2020 - 21			21.30	35.50	14.20		
	9	Baruipur 220 kV GIS	220/132	320.0	59.00	2020 - 21			17.70	29.50	11.80		
	10	C.K.Road 220kV GIS	220/132	320.0	59.00	2021-22				17.70	29.50	11.80	
	11	Raghunathpur 220 kV GIS	220/132	320.0	59.00	2021-22				17.70	29.50	11.80	

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Vidyut Bhavan, Kol - 91

Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
220 kV Augmentation on existing Sub Station	1	N. Town AA III	220/33	50.0	6.50	2017-18	1.30	5.20					
	2	Lakshmikantapur	220/132	80.0	11.00	2017-18	2.20	8.80					
	3	Satgachia	220/132	160.0	12.00	2017-18	2.40	9.60					
	4	New Town AA-III	220/132	160.0	12.00	2017-18	2.40	9.60					
	5	New Bishnupur	220/132	160.0	14.50	2018-19		2.90	11.60				
	6	Dharampur	220/132	160.0	14.50	2018-19		2.90	11.60				
	7	Lakshmikantapur	220/132	40.0	9.00	2018-19		1.80	7.20				
	8	Sadaipur	220/132	160.0	14.50	2018-19		2.90	11.60				
	9	Satgachia	220/132	160.0	14.50	2018-19		2.90	11.60				
	10	Alipurduar	220/132	160.0	14.50	2019-20			4.35	10.15			
	11	Dalkhola	220/132	160.0	15.50	2019-20			4.65	10.85			
	12	Egra	220/132	160.0	15.50	2019-20			4.65	10.85			
	13	Jeerat	220/132	160.0	15.50	2019-20			4.65	10.85			
	14	Foundry Park	220/132	160.0	15.50	2020-21				4.65	10.85		
	15	Rejinagar	220/132	160.0	15.50	2020-21				4.65	10.85		
	16	Barasat	220/132	160.0	16.00	2021-22					4.80	11.20	
	17	Gazol	220/132	160.0	16.00	2021-22					4.80	11.20	
Total 220 kV MVA			220/132	**5560.0**	**983.58**		67.80	206.27	283.68	250.53	129.30	46.00	
			220/33	**310.0**									
			132/33	**300.0**									
132 kV New Sub Station	1	Panagarh 132 kV GIS	132/33	100.0	37.71	2017-18	1.58	19.60	16.53				
	2	Islampur 132 kV SS	132/33	100.0	26.24	2017-18	3.14	7.00	16.10				
	3	Indus 132 kV GIS	132/33	100.0	29.92	2017-18	3.39	15.60	10.93				
	4	Mohitnagar 132 kV GIS	132/33	100.0	27.82	2017-18	0.48	16.60	10.74				
	5	Dinhata 132 kV GIS	132/33	100.0	24.31	2017-18	4.87	9.72	9.72				
	6	Kamakhyaguri 132 kV SS	132/33	63.0	10.00	2017-18	7.00	3.00					
	7	Bhadrapur 132 kV GIS	132/33	100.0	27.67	2017-18	2.76	11.07	10.00	3.84			
	8	Katwa Road 132 kV GIS	132/33	150.0	34.93	2017-18	3.49	10.48	15.00	5.96			
	9	Baruipur 132 kV GIS	132/33	100.0	34.00	2018-19		10.20	17.00	6.80			
	10	Sonepur Bazari 132 kV GIS	132/33	100.0	33.28	2018-19	0.50	6.65	21.34	4.79			
	11	Debra 132 kV GIS	132/33	100.0	31.08	2018-19	6.21	9.33	15.54				
	12	jhalda 132 kV GIS	132/33	63.0	24.00	2018-19	2.56	9.60	11.84				
	13	Salar 132/33 kV GIS	132/33	100.0	32.14	2018-19	3.21	9.64	15.00	4.29			
	14	Minakhan 132/33 kV GIS	132/33	100.0	34.00	2018-19		10.20	17.00	6.80			
	15	Garia / Renia 132/33 kV GIS	132/33	100.0	39.00	2018-19		11.70	19.50	7.80			
	16	Hahar 132/33 kV GIS	132/33	100.0	34.00	2019-20			10.20	17.00	6.80		

Vidyut Bhaban, Kol – 91
Addl. Chief Engineer, RAC
WBSETCL

Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
132 kV New Sub Station	17	Hasimara 132/33 kV GIS	132/33	63.0	32.00	2019-20			9.60	16.00	6.40		
	18	Bogula 132/33 kV GIS	132/33	63.0	32.00	2019-20			9.60	16.00	6.40		
	19	Banarhat 132/33 kV GIS	132/33	63.0	32.00	2019-20			9.60	16.00	6.40		
	20	Amdanga 132/33 kV GIS	132/33	100.0	35.00	2019-20			10.50	17.50	7.00		
	21	Bagjola 132/33 kV GIS	132/33	100.0	40.00	2019-20			12.00	20.00	8.00		
	22	Serapole 132/33 kV GIS	132/33	100.0	35.00	2019-20			10.50	17.50	7.00		
	23	Joynagar 132/33 kV GIS	132/33	100.0	42.00	2019-20			12.60	21.00	8.40		
	24	Saltlake III 132/33 kV GIS	132/33	150.0	43.00	2020 - 21				12.90	21.50	8.60	
	25	KWIC 132 kV GIS	132/33	160.0	48.00	2020 - 21				14.40	24.00	9.60	
	26	Illambazar 132/33 kV GIS	132/33	100.0	35.00	2020 - 21				10.50	17.50	7.00	
	27	Jagatballavpur 132 kV GIS	132/33	100.0	31.66	2020 - 21		6.33	20.00	5.33			
	28	Kalimpong 132/33 kV GIS	132/33	30.0	41.00	2020 - 21				12.30	20.50	8.20	
	29	Odlabari 132/33 kV GIS	132/33	100.0	33.60	2020 - 21				10.08	16.80	6.72	
	30	Goaltore 132/33 kV GIS	132/33	100.0	35.00	2021-22					10.50	17.50	7.00
	31	Sukhia Pokhri 132/33 kV GIS	132/33	30.0	35.00	2021-22					10.50	17.50	7.00
	32	Cord Rd. 132/33 kV GIS	132/33	100.0	35.00	2021-22					10.50	17.50	7.00
	33	Banshberia 132/33 kV GIS	132/33	100.0	35.00	2021-22					10.50	17.50	7.00
	34	Jagadishpur 132/33 kV GIS	132/33	100.0	35.00	2021-22					10.50	17.50	7.00
132 kV Augmentation on existing Sub Station	1	Bongaon	132/33	18.50	3.36	2017-18		3.36					
	2	Mahispota	132/33	18.50	3.36	2017-18		3.36					
	3	Salt Lake	132/33	30.00	7.00	2017-18		7.00					
	4	Salt Lake GIS	132/33	30.00	7.00	2017-18		7.00					
	5	Falta	132/33	18.50	3.36	2017-18		3.36					
	6	Kakdwip	132/33	18.50	3.36	2017-18		3.36					
	7	Laxmikantapur	132/33	18.50	3.36	2017-18		3.36					
	8	Bishnupur	132/33	18.50	3.36	2017-18		3.36					
	9	New Bishnupur	132/33	18.50	3.36	2017-18		3.36					
	10	Mankar	132/33	18.50	3.36	2017-18		3.36					
	11	Satgachia	132/33	18.50	3.36	2017-18		3.36					
	12	Darjeeling	132/33	10.00	2.80	2017-18		2.80					
	13	Raigunj	132/33	17.50	3.30	2017-18		3.30					
	14	Balurghat	132/33	13.00	2.80	2017-18		2.80					
	15	Gangarampur	132/33	17.50	3.30	2017-18		3.30					
	16	Egra	132/33	50.00	5.38	2017-18		5.38					
	17	New Haldia	132/33	18.50	3.36	2017-18		3.36					
	18	Chanditala	132/33	31.50	3.58	2017-18		3.58					

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Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
132 kV Augmentation on existing Sub Station	19	Khanyan	132/33	31.50	3.58	2017-18		3.58					
	20	Tarakeswar	132/33	31.50	3.58	2017-18		3.58					
	21	Bagnan GIS	132/33	30.00	7.00	2017-18		7.00					
	22	Maynaguri	132/33	20.00	3.80	2017-18		3.80					
	23	Amtala	132/33	18.50	3.36	2017-18		3.36					
	24	Raghunathganj	132/33	18.50	3.36	2017-18		3.36					
	25	Debogram	132/33	30.00	7.00	2017-18		7.00					
	26	Dharampur.	132/33	50.00	5.38	2017-18		5.38					
	27	Kalyani	132/33	18.50	3.36	2017-18		3.36					
	28	Ranaghat	132/33	31.50	3.58	2017-18		3.58					
	29	C.K.Road	132/33	50.00	5.38	2017-18		5.38					
	30	Hizli	132/33	31.50	3.58	2017-18		3.58					
	31	Jhargram	132/33	18.50	3.36	2017-18		3.36					
	32	Bongaon	132/33	18.50	3.66	2018-19		1.10	2.56				
	33	Sonarpur	132/33	18.50	3.66	2018-19		1.10	2.56				
	34	Bolpur	132/33	31.50	3.90	2018-19		1.17	2.73				
	35	Kalna	132/33	18.50	3.66	2018-19		1.10	2.56				
	36	Katwa	132/33	18.50	3.66	2018-19		1.10	2.56				
	37	Mahachanda	132/33	18.50	3.66	2018-19		1.10	2.56				
	38	Coochbehar	132/33	31.50	3.90	2018-19		1.17	2.73				
	39	Dalkhola	132/33	23.00	3.80	2018-19		1.14	2.66				
	40	Balurghat	132/33	31.50	3.90	2018-19		1.17	2.73				
	41	Adisaptagram	132/33	50.00	5.87	2018-19		1.76	4.11				
	42	Arambag	132/33	50.00	5.87	2018-19		1.76	4.11				
	43	N.J.P	132/33	31.50	3.90	2018-19		1.17	2.73				
	44	Siliguri	132/33	50.00	5.87	2018-19		1.76	4.11				
	45	Samsi	132/33	18.50	3.66	2018-19		1.10	2.56				
	46	Amtala	132/33	31.50	3.90	2018-19		1.17	2.73				
	47	Raghunathganj	132/33	30.00	7.00	2018-19		2.10	4.90				
	48	Krishnanagar	132/33	50.00	5.87	2018-19		1.76	4.11				
	49	Birshingha	132/33	18.50	3.66	2018-19		1.10	2.56				
	50	C.K.Road	132/33	18.50	3.66	2018-19		1.10	2.56				
	51	Basirhat	132/33	18.50	3.97	2019-20			1.19	2.78			
	52	Salt Lake GIS	132/33	30.00	7.00	2019-20			2.10	4.90			
	53	Titagarh	132/33	50.00	6.36	2019-20			1.91	4.45			
	54	Falta	132/33	18.50	3.97	2019-20			1.19	2.78			

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Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
132 kV Augmentation on existing Sub Station	55	K.L. Complex	132/33	30.00	7.00	2019-20			2.10	4.90			
	56	Kakdwip	132/33	18.50	3.97	2019-20			1.19	2.78			
	57	Subhasgram	132/33	18.50	3.97	2019-20			1.19	2.78			
	58	Bankura	132/33	31.50	4.23	2019-20			1.27	2.96			
	59	Bishnupur	132/33	31.50	4.23	2019-20			1.27	2.96			
	60	New Bishnupur	132/33	31.50	4.23	2019-20			1.27	2.96			
	61	Rampurhat	132/33	18.50	3.97	2019-20			1.19	2.78			
	62	Mankar	132/33	18.50	3.97	2019-20			1.19	2.78			
	63	Satgachia	132/33	50.00	6.36	2019-20			1.91	4.45			
	64	Raigunj	132/33	17.50	3.80	2019-20			1.14	2.66			
	65	Kalyani	132/33	50.00	6.36	2019-20			1.91	4.45			
	66	Ranaghat	132/33	18.50	3.97	2019-20			1.19	2.78			
	67	Jhargram	132/33	31.50	4.23	2019-20			1.27	2.96			
	68	Bongaon	132/33	18.50	4.27	2020-21				1.28	2.99		
	69	Mahispota	132/33	18.50	4.27	2020-21				1.28	2.99		
	70	Salt Lake	132/33	30.00	7.00	2020-21				2.10	4.90		
	71	Sainthia	132/33	18.50	4.27	2020-21				1.28	2.99		
	72	Asansol	132/33	60.00	14.00	2020-21				4.20	9.80		
	73	Kalna	132/33	18.50	4.27	2020-21				1.28	2.99		
	74	Kurseong	132/33	30.00	7.00	2020-21				2.10	4.90		
	75	N.B.U	132/33	18.50	4.27	2020-21				1.28	2.99		
	76	Gangarampur	132/33	18.50	4.27	2020-21				1.28	2.99		
	77	Contai	132/33	18.50	4.27	2020-21				1.28	2.99		
	78	Haldia	132/33	18.50	4.27	2020-21				1.28	2.99		
	79	New Haldia	132/33	31.50	4.55	2020-21				1.37	3.19		
	80	Jangipara	132/33	31.50	4.55	2020-21				1.37	3.19		
	81	Bagnan GIS	132/33	30.00	7.00	2020-21				2.10	4.90		
	82	Foundry Park	132/33	31.50	4.55	2020-21				1.37	3.19		
	83	Uluberia	132/33	50.00	6.85	2020-21				2.05	4.79		
	84	Amtala	132/33	18.50	4.27	2020-21				1.28	2.99		
	85	Dhulian	132/33	31.50	4.55	2020-21				1.37	3.19		
	86	Birshingha	132/33	50.00	6.85	2020-21				2.05	4.79		
	87	Mahispota	132/33	50.00	7.34	2021-22					2.20	5.13	
	88	K.L. Complex	132/33	30.00	7.00	2021-22					2.10	4.90	
	89	Kakdwip	132/33	31.50	4.88	2021-22					1.46	3.41	
	90	Subhasgram	132/33	37.00	8.50	2021-22					2.55	5.95	

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Intra-state Transformation capacity planned to be commissioned during the period 2017-22 including phasing of expenditure

Voltage level New S/Stn, Augmentation of Existing SS	Sl. No.	Name of the Sub- Station	Transformation		Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)						
			Voltage Level (KV)	Capacity (MVA)			2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Spelover
132 kV Augmentation on existing Sub Station	91	Alipurduar	132/33	31.50	4.88	2021-22					1.46	3.41	
	92	Barjora	132/33	18.50	4.58	2021-22					1.37	3.20	
	93	Kalna	132/33	18.50	4.58	2021-22					1.37	3.20	
	94	Katwa	132/33	50.00	7.34	2021-22					2.20	5.13	
	95	Mathabhanga	132/33	18.50	4.58	2021-22					1.37	3.20	
	96	Haldia	132/33	31.50	4.88	2021-22					1.46	3.41	
	97	Belmuri	132/33	31.50	4.88	2021-22					1.46	3.41	
	98	Khanyan	132/33	18.50	4.58	2021-22					1.37	3.20	
	99	Maynaguri	132/33	18.50	4.58	2021-22					1.37	3.20	
	100	Malda	132/33	50.00	7.34	2021-22					2.20	5.13	
	101	Samsi	132/33	18.50	4.58	2021-22					1.37	3.20	
	102	Lalgola	132/33	31.50	4.88	2021-22					1.46	3.41	
	103	Hura	132/33	50.00	7.34	2021-22					2.20	5.13	
	104	C.K.Road	132/33	50.00	7.34	2021-22					2.20	5.13	
Total 132 kV MVA				**6169.0**	**1634.24**		39.19	316.62	393.43	335.45	314.13	200.42	35.00
Grand Total				**15544.0**	**3254.94**		121.48	671.77	851.90	712.92	567.82	294.05	35.00

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[ ] marked projects are already approved by the competent authority

NB : Funding as per normative debt : equity = 70 : 30 obtained from Financial Institute and internal accruals.

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Addl. Chief Engineer, RAC
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WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Intra-state Transmission lines planned to be commissioned during period of 2017-2022 including phasing of expenditure

Voltage level	Sl. No.	Name of the Transmission line	Length in CKM	Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)					
						2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
400 KV	1	LILO of Arambag-PPSP 400KV D/C at New PPSP	2	2.68	2017-18	2.68					
	2	LILO of Arambag-Durgapur 400KV S/C at New Chanditala	94	72.57	2017-18	11.50	30.00	31.07			
	3	Katwa TPS - New Katwa 400 kV D/C (QUAD MOOSE)	5	6.77	2019-20			4.74	2.03		
	4	D/C LILO of Gokarna - N. Chanditala 400 kV D/C at New Katwa	10	13.55	2019-20			9.49	4.07		
	5	400 kV D/C line from New Katwa to common tower of Jeerat - BKTPP & Jeerat - New Chanditala 400 kV S/C	172	324.52	2021-22				97.36	162.26	64.90
	6	LILO of KTPP - Kharagpur 400 kV S/C at N.Haldia NIZ	80	150.94	2021-22				45.28	75.47	30.19
	Total 400 kV CKM		**363**	**571.03**		14.18	30.00	45.29	148.73	237.73	95.09
220 KV	1	D/C LILO of Arambag – Rishra 220 kV S/C ine at New Chanditala	31	26.20	2017-18	9.86	10.00	6.34			
	2	N. Chanditala - Domjur 220 kV D/C	18	16.64	2017-18	3.34	6.65	6.65			
	3	D/C LILO of Jeerat – Kasba 220 kV D/C Line at Barasat	8	11.63	2017-18	7.06	4.57				
	4	Establishment of Barasat-Rajarhat (PG) 220 KV D/C by utilising Barasat-Kasba 220 KV D/C	9	13.39	2017-18	9.37	4.02				
	5	Esatbishment of Rajarhat(PG)-New Town III 220 KV D/C utilising Jeerat-New Town III 220 KV D/C	1	0.99	2017-18	0.21	0.39	0.39			
	6	Establishment of Jeerat-Kasba 220 KV D/C by utilising remaining part of Jeerat-New Town III 220 KV D/C and Barasat-Kasba 220 KV D/C	7	10.42	2017-18	7.29	3.13				
	7	D/C LILO of Sagardighi TPS – Gokarna 220 kV D/C Line at Sagardighi	11	8.54	2017-18	8.54					
	8	LILO of Arambag - New Chanditala (Rishra) 220 KV S/C at Singur	20	14.85	2017-18	2.97	5.94	5.94			
	9	220 KV D/C from Subhasgram(PG) to Laxmikantapur ***	105	102.02	2017-18	19.61	40.91	35.80	5.70		
	10	LILO of STPS - Durgapur 220 KV S/C at Asansole	60	36.63	2018-19	7.33	14.65	10.00	4.65		
	11	LILO of STPS - N. Bishnupur 220 kV S/C at Hura SS	44	39.60	2018-19	3.96	23.76	11.88			
	12	Rajarhat (PG) - NewTown II C 220 kV D/C	28	37.25	2018-19	7.34	13.72	16.19			

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Intra-state Transmission lines planned to be commissioned during period of 2017-2022 including phasing of expenditure

Voltage level	Sl. No.	Name of the Transmission line	Length in CKM	Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)					
						2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
220 KV	13	D/C LILO of Gokarna-Krishnanagar 220KV D/C at Rejinagar	7	6.88	2018-19	1.38	2.75	2.75			
	14	D/C LILO of Malda(PG) - Dalkhola(PG) 220 kV D/C at Gazol	9	8.43	2018-19	0.84	5.06	2.53			
	15	D/C LILO of Satgachia - Krishnanagar 220 kV D/C at New Katwa	152	263.87	2019-20		79.16	131.94	52.77		
	16	D/C LILO of BKTPP - Satgachia 220 kV D/C at Mahachhanda	7	12.15	2019-20		3.65	6.08	2.43		
	17	N. Haldia - Egra 220 kV D/C	140	243.04	2019-20		72.91	121.52	48.61		
	18	D/C LILO of Arambag - Domjur 220 kV D/C at Mayapur	18	31.25	2020-21			9.38	15.63	6.25	
	19	D/C LILO of Subhasgram(PG) - Laxmikantapur 220 KV D/C at Baruipur	120	208.32	2020-21			62.50	104.16	41.66	
	20	D/C LILO of Sadaipur - Gokarna 220 kV D/C at Kotasur	4	6.94	2020-21			2.08	3.47	1.39	
	21	D/C LILO of KTPS - New Haldia 220 kV D/C at N. Haldia NIZ	16	27.78	2021-22				8.33	13.89	5.56
	22	D/C LILO of Egra - New Haldia 220 kV D/C at N. Haldia NIZ	20	34.72	2021-22				10.42	17.36	6.94
	23	D/C LILO of Arambag - Midnapur 220 kV D/C at C.K.Road	116	201.38	2021-22				60.41	100.69	40.28
	24	STPS - Raghunathpur 220 kV D/C	50	59.02	2021-22				17.71	29.51	11.80
	Total 220 kV CKM		**1001**	**1421.94**		**89.11**	**291.26**	**431.95**	**334.29**	**210.75**	**64.58**
132 kV	1	132 kV D/C Line from New Sagardighi to Gokarna – Raghunathgunj 132 kV Line	8	5.69	2017-18	4.67	1.02				
	2	Mankar – Panagarh 132 kV D/C	11	4.77	2017-18	4.77					
	3	Durgapur - Panagarh 132 kV D/C	63	31.38	2017-18	21.98	7.00	2.40			
	4	LILO of TCF -III to Dalkhola 132 kV 2x S/C at Islampur	2	1.50	2017-18	1.50					
	5	New Bishnupur - Indus 132 kV D/C	76	29.01	2017-18	10.63	12.00	6.38			
	6	D/C LILO of NJP – Moinaguri 132 kV D/C at Mohitnagar	29	19.85	2017-18	10.19	9.66				
	7	LILO of one circuit of Coochbehar – Mathabanga 132 kV D/C at Dinhata	94	37.67	2017-18	11.76	17.00	8.91			
	8	132 KV D/C line from Bhadrapur to Gokarna - Raghunathgunj 132 kV Line	31	13.34	2017-18	10.00	3.34				

AMITAVA NAG
Addl. Chief Engr. (Dev. RAC)
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Vidyut Bhavan, Kol-91

Intra-state Transmission lines planned to be commissioned during period of 2017-2022 including phasing of expenditure

Voltage level	Sl. No.	Name of the Transmission line	Length in CKM	Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)					
						2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
132 kV	9	D/C LILO of Satgachia -Mahachhanda 132 kV D/C at Katwa Road	5	10.05	2017-18	4.02	6.03				
	10	Alipurduar - Kamakhyaguri 132 kV S/C (Upgradation)	26	19.50	2017-18	19.50					
	11	Kharagpur to Kharagpur WBIIDC 132KV D/C including Bay at both end	14	32.11	2017-18	3.23	8.77	20.11			
	12	LILO of Gokarna - Rampurhat 132 kV S/C at Kuli 132 kV SS	9	5.40	2017-18	2.16	3.24				
	13	D/C LILO of Adisaptagram – Benmuri 132 kV D/C Line at Singur	57	40.25	2017-18	18.42	13.00	8.83			
	14	S/C LILO of Joka-Falta 132 KV D/C at Shirakole	20	15.00	2017-18	6.00	9.00				
	15	LILO of BTPS - Dharampur 132 kV Ckt-III at Kalyani	2	1.50	2017-18	0.60	0.90				
	16	Keshiary - Pingla 132KV D/C	80	35.39	2018-19	7.08	10.62	17.69			
	17	Rampurhat - Bhadrapur 132KV D/C	48	23.84	2018-19	4.77	7.15	11.92			
	18	D/C LILO of Amtala-Berhampur 132KV D/C at Rejinagar	31	16.60	2018-19	1.66	4.98	9.96			
	19	D/C LILO of Amtala - Debogram 132 kV D/C at Rejinagar	17	8.89	2018-19	0.89	2.67	5.33			
	20	132kV D/C from Gazol to LILO point of existing 132kV line to Samsi 132kV SS	4	1.52	2018-19	0.15	0.46	0.91			
	21	D/C LILO of Malda - Raiganj 132kV D/C line at Gazol SS	23	8.11	2018-19	0.81	2.43	4.87			
	22	132kV D/C from Gazol SS to the nearest point of 132kV line towards Balurghat SS	6	2.28	2018-19	0.23	0.68	1.37			
	23	Conversion of Balurghat - Malda - Raiganj Tapping point 132 kV S/C to D/C	100	15.30		1.53	4.59	9.18			
	24	Baruipur - Shirakole 132 kV D/C	40	12.35	2018-19	1.23	3.71	7.41			
	25	Ukhra - Sonepur Bazari 132 kV D/C	31	24.87	2018-19	1.50	8.00	15.37			
	26	132KV D/C Line from TL No T-21 of Midnapur-Kharagpur WBIDC 132KV Line to Debra	52	25.38	2018-19	5.08	7.61	12.69			
	27	Bagmundi - Jhalda 132KV D/C	98	39.91	2018-19	7.99	15.96	15.96			
	28	Conversion of Purulia - Bagmundi 132 kV S/C to D/C	69	7.00	2018-19	2.10	2.10	2.80			
	29	D/C LILO of Gokarna - Katwa 132 kV D/C at Salar	8	4.59	2018-19	0.92	2.30	1.38			
	30	Subhasgram - Minakhan 132 kV D/C	66	39.60	2018-19	7.92	19.80	11.88			
	31	D/C LILO of Sonarpur - Joka 132 kV D/C at Garia	4	4.20	2018-19	0.84	2.10	1.26			
	32	Salt Lake AIS - Salt Lake GIS 132 KV S/C (UG Cable)	3	8.40	2018-19	1.68	4.20	2.52			
	33	Titagarh-Mohispota 132 KV S/C (UG Cable)	9	23.40	2018-19	4.68	11.70	7.02			

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ANNEXURE-G
Addl. Chief Engineer, RAC
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Intra-state Transmission lines planned to be commissioned during period of 2017-2022 including phasing of expenditure

Voltage level	Sl. No.	Name of the Transmission line	Length in CKM	Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)					
						2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
132 kV	34	Subhasgram - Sonarpur 132 KV D/C	24	14.40	2018-19	2.88	7.20	4.32			
	35	Indus - Raina 132 kV D/C	60	36.00	2019-20		10.80	18.00	7.20		
	36	D/C LILO of Gazol - Raiganj 132 kV D/C at Itahar	59	35.40	2019-20		10.62	17.70	7.08		
	37	Sadaipur - Sonepur Bazari 132 kV D/C	70	42.00	2019-20		12.60	21.00	8.40		
	38	Birpara(PG) - Hasimara 132 KV S/C	25	11.25	2019-20		3.38	5.63	2.25		
	39	Ranaghat - Bagula 132 KV S/C (Upgradation from 66 KV)	25	11.25	2019-20		3.38	5.63	2.25		
	40	Birpara(PG) - Banarhat 132 KV S/C	19	8.55	2019-20		2.57	4.28	1.71		
	41	LILO of Jeerat - Barasat 132 KV D/C at Amdanga	37	24.05	2019-20		7.22	12.03	4.81		
	42	New Town II C - Bagjola 132 kV D/C (UG Cable)	17	47.60	2019-20		14.28	23.80	9.52		
	43	Lakshmikantapur - Joynagar 132 kV D/C	78	50.70	2019-20		15.21	25.35	10.14		
	44	Basirhat - Serapole 132 KV D/C	52	33.80	2019-20		10.14	16.90	6.76		
	45	S/C LILO of one ckt. of Gazol - Balur ghat 132kV D/C at Gangarampur.	5	3.70	2019-20		1.11	1.85	0.74		
	46	New Town II C - New Town IA 132 kV S/C (UG Cable)	10	28.00	2019-20		8.40	14.00	5.60		
	47	Jangipara - Tarakeswar 132 KV D/C	35	22.75	2019-20		6.83	11.38	4.55		
	48	Drawal of 3 nos 132 kV D/C Line from Kotasur SS to LILO point towards Rampurhat SS to establish 132 kV D/C connectivity of Kotasur SS with Sainthia, Rampurhat & Kuli SS	14	14.70	2020-21			4.41	7.35	2.94	
	49	Kasba - Saltlake III GIS 132 kV D/C (UG Cable)	12	33.60	2020-21			10.08	16.80	6.72	
	50	D/C LILO of Howrah - Liluah 132 KV D/C at KWIC	2	2.10	2020-21			0.63	1.05	0.42	
	51	Krishnanagar - Bagula 132 kV D/C	36	24.48	2020-21			7.34	12.24	4.90	
	52	D/C LILO of Durgapur - Bolpur 132 kV D/C at Illambazar	60	40.80	2020-21			12.24	20.40	8.16	
	53	Bongaon- Serapole 132 KV D/C	88	59.84	2020-21			17.95	29.92	11.97	
	54	Sonakhali - Joynagar 132 kV D/C	56	38.08	2020-21			11.42	19.04	7.62	
	55	Odlabari - Chalsa 132 KV S/C	19	9.50	2020-21			2.85	4.75	1.90	
	56	D/C LILO of Domjur-Uluberia 132KV D/C at Jagatballavpur	38	24.93	2020-21		4.99	15.00	4.94		
	57	Kalimpong - Melli 132 KV D/C	17	10.88	2020-21			3.26	5.44	2.18	
	58	Alipurduar - Hasimara 132 kV S/C	38	19.00	2020-21			5.70	9.50	3.80	
	59	Rammam-III - NJP 132 KV D/C	160	116.80	2020-21			35.04	58.40	23.36	
	60	132 KV D/C from Barasat 220 KV to Asokenagar-Basirhat 132 KV D/C	24	36.72	2020-21			11.02	18.36	7.34	

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AMITAVA NAG
Chief General Manager
WBSETCL
Vidyut Bhaban, Kol - 91

Intra-state Transmission lines planned to be commissioned during period of 2017-2022 including phasing of expenditure

Voltage level	Sl. No.	Name of the Transmission line	Length in CKM	Estimated Cost (Rs. Crore)	Target Year	Expenditure for the year (₹ in Crore)					
						2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
132 kV	61	LILO of one circuit of Bishnupur - Khatra 132 kV D/C at Goaltore	54	42.12	2021-22				12.64	21.06	8.42
	62	LILO of JSW Cement - C K Road 132 kV S/C at Goaltore	37	28.86	2021-22				8.66	14.43	5.77
	63	LILO of Rmm-II - NBU 132 KV S/C at Sukhiapokhri	6	5.04	2021-22				1.51	2.52	1.01
	64	LILO of Rmm-II - Lebong 132 KV S/C at Sukhiapokhri	6	5.04	2021-22				1.51	2.52	1.01
	65	LILO of NBU - Lebong 132 KV S/C at Sukhiapokhri	6	5.04	2021-22				1.51	2.52	1.01
	66	Rammam-III -Sukhiapokhri 132 KV D/C	40	32.00	2021-22				9.60	16.00	6.40
	67	Dharampur - Cord Rd. 132 KV D/C	37	41.63	2021-22				12.49	20.81	8.33
	68	D/C LILO of Dharampur - BTPS 132 kV D/C (Ckt-1 &2) at Bnsberia	4.5	4.05	2021-22					2.43	1.62
	69	D/C LILO of Domjur - Chanditala 132 kV D/C at Jagadishpur	8.5	7.40	2021-22				2.22	3.70	1.48
	70	Kalimpong - Chalsa 132 KV S/C	26	21.06	2021-22				6.32	10.53	4.21
	71	Berhampur - Domkaol 132 KV D/C	40	32.00	2021-22				9.60	16.00	6.40
	Total 132 kV CKM		**2481**	**1593.76**		**183.37**	**320.72**	**504.94**	**345.25**	**193.82**	**45.66**
	Grand Total		**3845**	**3586.73**		**286.66**	**641.98**	**982.19**	**828.28**	**642.30**	**205.33**

marked projects are already approved by the competent authority

*** **marked project was partly (RL ≃ 29 Km, Project cost ₹ 44.75 Crore excluding Supervision & IDC) approved which may be modified subsequently.**

NB: Funding as per normative debt : equity = 70 : 30 obtained from Financial Institute and internal accruals.

AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol – 91

Annexure - D

Abstract Statement of CAPEX on New & On-going Transmission Projects								
	(O&M) Construction		Projects		Testing		Communication Equipment	
	2016-2017	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018
Ongoing Projects (excl. Deposit Work)	13025.04	8384.67	91901.90	64100.10	1010.97	855.27	4700.00	7900.00
Upcoming Projects (excl. Deposit Work)	1632.09	6167.00	8149.48	49896.87	0.00	0.00	0.00	0.00
PSDF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deposits	3355.17	5503.50	3757.90	953.66	0.00	0.00	0.00	0.00
Total	**18012.31**	**20055.17**	**103809.28**	**114950.62**	**1010.97**	**855.27**	**4700.00**	**7900.00**
	Information Technology		SLDC		(O&M) Construction			
	2016-2017	2017-2018	2016-2017	2017-2018	2016-2017	2017-2018		
Ongoing Projects (excl. Deposit Work)	944.50	833.79	20.78	0.00	14347.00	17089.72		
Upcoming Projects (excl. Deposit Work)	0.00	0.00	0.00	0.00	0.00	0.00		
PSDF	0.00	0.00	0.00	0.00	4403.27	10.68		
Deposits	0.00	0.00	0.00	0.00	**1349.70**	**3299.74**		
Total	944.50	833.79	20.78	0.00	20099.97	20400.14		

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AMITAVA NAG
Addl. Chief Engineer, RAC
WBSETCL
Vidyut Bhaban, Kol - 91