ORDER
OF THE
WEST BENGAL ELECTRICITY REGULATORY COMMISSION
IN CASE NO. OA-257/17-18

IN REGARD TO THE APPLICATION SUBMITTED BY THE WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED (WBSETCL) FOR APPROVAL OF INCURRING CAPITAL EXPENDITURE OF AN ESTIMATED COST OF RS. 80563.06 LAKHS FOR IMPLEMENTATION OF DIFFERENT NEW TRANSMISSION SCHEMES IN TERMS OF REGULATION 2.8.2.3 AND PARAGRAPH 4.1 (VI) OF SCHEDULE-2 OF THE WEST BENGAL ELECTRICITY REGULATORY COMMISSION (TERMS AND CONDITIONS OF TARIFF) (AMENDMENT) REGULATIONS, 2012.

PRESENT:
SRI SUTIRTHA BHATTACHARYA, CHAIRPERSON
SRI DURGADAS GOSWAMI, MEMBER

DATE: 24.06.2019
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

Facts in brief:

1.0 West Bengal State Electricity Transmission Company Limited (in short ‘WBSETCL’) submitted a petition on 01.08.2017 for approval of incurring capital expenditure of an estimated cost of Rs. 80563.06 Lakh for implementation of different new transmission schemes covered under paragraph 2.0 below in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule – 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011, as amended (in short ‘Tariff Regulations’).

2.0 In their petition WBSETCL submitted DPR for each of the seven (7) schemes. Brief descriptions of the schemes are as follows:

A) Construction of Burdwan 132/33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 132/33 kV GIS at Burdwan within the available space at Katwa Road 33/11 kV Substation of WBSEDCL with 3x50 MVA 132/33 kV Transformers, four (4) numbers of 132 kV Feeder bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB), 2x10 MVAR 33 kV Shunt Capacitor Banks along with construction of D/c LILO of 132 kV Satgachia – Mahachanda D/c line at proposed Burdwan 132 kV GIS using UG cable (RL= 400 mtr)

The proposed substation will be located in Burdwan Town in the Burdwan district of West Bengal. Establishment of 132/33 kV Substation at Burdwan was contemplated to supply adequate, reliable and quality power in the command area of existing 33/11 kV substations Katwa Road, Nababhat, Becharhat, Shaktigarh, Sadarghat and Burdwan Power House of WBSEDCL. All these substations are within the periphery of 10 km from the proposed location of 132 kV GIS and have connectivity with Katwa Road 33 kV substation. The expected demand to be incident on the proposed...
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

Burdwan 132/33 kV GIS is around 90 MVA. Burdwan 132/33 kV GIS will be connected through LILO of 132 kV D/c Satgachia – Mahachanda line.

Earlier entire source of power of WBSEDCL’s command area in and around Burdwan town was dependent on DVC source which was gradually shifted to WBSETCL source. Presently the 33/11 kV substations in and around Burdwan are getting supply for 132 kV Mahachanda and 132 kV Raina substations through long 33 kV line and facing low voltage problems. With the proposed Burdwan 132 kV GIS, the quality and reliability of power will increase and it will help to cater the future load growth in Burdwan area.

Establishment of 220/132/33 kV substation was approved in the rolling plan of WBSETCL up to 2018-19 but no suitable land in and around Burdwan Town was found for construction of proposed 220 kV substation. Considering the urgency, an alternative proposal was initiated from WBSEDCL to construct 132 kV GIS within the vacant land available at their Katwa Road 33/11 kV Substation. It was submitted that establishment of Burdwan 132 kV GIS was incorporated in the Perspective plan of WBSETCL (XIII Plan), which was approved by the Board of Directors, WBSETCL in its 53rd Meeting held on 28.07.2016.

It was also submitted that, for establishment of the substation no land is required to be acquired as it will be constructed at the available space within Katwa Road 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

B) Construction of Baruipur 220/132/33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 220/132/33/11 kV GIS at Baruipur with 2x160 MVA 220/132 kV Transformers, 2x50 MVA 132/33 kV Transformers, two
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

(2) numbers of 220 kV Line Bays, two (2) numbers of 132 kV Line Bays, eight (8) numbers of 33 kV feeders (with Indoor VCB), 2x10 MVAR 33 kV Shunt Capacitors along with construction of Subhasgram (PG) – Baruipur 220 kV D/c line and Baruipur - Serakole 132 kV D/C Transmission line with HTLS Conductor and two (2) numbers of 132 kV feeder bay at Serakole Substation.

Presently Lakhshmikantapur 220 kV substation is the only source of power for entire southern part of South 24 Parganas district and its present demand is around 380 MVA. The proposed 220/132/33 kV GIS at Baruipur, in the South 24 Parganas district of West Bengal, connected directly with Subhasgram (PG) through D/c line will not only off load the Lakhshmikantapur 220 kV but also increase the reliability of Transmission network. KMDA has planned for development of integrated township with estimated demand of 115 MVA at Baruipur. This development will cause sustainable growth in load demand in this vicinity and creation of Baruipur 220/132/33 kV Substation is the only option to cater to the projected load demand.

It was submitted that, for establishment of 220 kV GIS at Baruipur, 4.93 acres of Land within proposed Integrated Township at Baruipur developed by KMDA has been allotted by KMDA for establishment of the proposed Baruipur 220 kV Substation. Advance payment of 10% of total land cost has been deposited to KMDA for processing of lease document.

C) Construction of Minakhan 132 / 33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 132/33 kV GIS at Minakhan with 2x50 MVA 132/33 kV transformers, two (2) numbers of 132 kV Line Bays, ten (10) numbers of 33 kV feeder Bays (with Indoor VCB), 2x10 MVAR 33kV Shunt Capacitors Bank along with construction of 132 kV D/c Transmission line from Subhasgram 220/132 kV Substation to proposed Minakhan 132 kV GIS and two (2)
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

numbers of 132 kV AIS feeder bay at Subhasgram 220 kV substation for Minakhan 132 kV GIS.

The proposed substation will be located at Minakhan in the North 24 Parganas district of West Bengal. Construction of proposed 132/33 kV substation at Minakhan has been contemplated due to higher load concentration in and around Minakhan. At present 33/11 kV substations of Bhangar, Minakhan, Jibantala, Sonakhali, Nazat are facing acute low voltage problem due to long distance 33 kV lines. A 132 kV Sonakhali GIS is under construction, but it alone will not be able to improve the voltage profile significantly in the command area of Minakhan, Jibantala, Nazat 33 kV substations. The proposed 132 kV Minakhan GIS will solve the low voltage problem in its command areas and improve the quality and reliability of power supply as well as provide strong alternative source to 33 kV Bhangar, Dighirpar, Hasnabad, Hingalganj substations. It will also cater system requirement commensurate with increase in demand due to load growth in Domestic, Industrial, Commercial and Agricultural sectors in the vicinity including demand arising out of Rural Electrification programme.

It was submitted that establishment of 132 kV GIS at Minakhan was included in the Perspective plan of WBSETCL up to 2021-22 (XIII Plan) which was approved by the Board of Directors, WBSETCL in its 53rd meeting held on 28.07.2016.

It was also submitted that, for establishment of 132 kV GIS at Minakhan no land is required to be acquired as it will be constructed at the available space within Minakhan 33/11 kV substation. Permissive possession of land has already been obtained from WBSEDCL.

D) Construction of Renia 132/33 kV Gas Insulated Substation (GIS) and associated transmission system(ATS):
Application for approval of incurring capital expenditure of an estimated cost of Rs 80,563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

WBSETCL has proposed for establishment of new 132/33 kV GIS at Renia with 2x50 MVA 132/33 kV transformers, four (4) numbers of 132 kV Line bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB), 1x10 MVAR 33 kV Shunt capacitor banks along with construction of D/c LILO of Kasba - Sonarpur - Behala 132 kV Transmission Line at proposed Renia sub-station.

The proposed sub-station will be located at Renia in South 24 Parganas District of West Bengal. The proposed substation has been contemplated to ensure adequate, reliable & quality power supply and to meet up the growing load demand in the Renia, Garia, Tollygunge, Nepalganj and adjacent areas. Presently demand of these areas is being met from Sonarpur and Behala 132 kV substations. Recently, Behala 132 kV (3x50 MVA) substation has recorded peak demand of 93 MVA and Sonarpur 132 kV (3x31.5 MVA) substation recorded peak demand of 90 MVA. Construction of the proposed 132/33 kV Renia substation is required to reduce loading of 33 kV systems at Sonarpur and Behala 132 kV Substation and to create a new 132 kV source in and around Garia/ Renia as load concentration in this area is very high.

After establishment of the proposed Renia 132 kV GIS, the load of Renia, Tollygunge and part load of Garia will be shifted to Renia source with immediate effect with expected demand of 45 MVA. The proposed substation will cater system requirement commensurate with increase in demand due to load growth in Domestic, Industrial, Commercial and Agricultural sectors in the vicinity and will also provide strong alternative source to nearby 33/11 kV substations.

It was submitted that establishment of 132 kV GIS at Renia was included in the Perspective plan of WBSETCL up to 2021-22 (XIII Plan) which was approved by the Board of Directors, WBSETCL in its 53rd meeting held on 28.07.2016.

It was further submitted that, for establishment of 132 kV GIS at Renia no land is required to be acquired as it will be constructed at the available space within
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

Renia33/11 kV substation. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

E) Construction of Salt Lake Stadium 132/33/11 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 132/33/11 kV GIS at Salt Lake Stadium Compound with 2x80 MVA 132/33 kV Transformers, 3x10 MVA 33/11 kV Transformers, four (4) numbers of 132 kV Line bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB) and twelve (12) numbers of 11 kV feeder bays (with Indoor VCB) along with construction 132 kV D/c UG cable line from Kasba 220 kV substation, 132 kV S/c UG cable line from Salt Lake 132 kV GIS and 132 kV S/c UG cable line from Sale Lake 132 kV Substation to the proposed 132 kV GIS at Salt Lake Stadium and construction of one (1) number of 132 kV Feeder bay at Salt Lake 132 kV GIS.

The proposed substation will be located at Salt Lake Stadium in the North 24 Parganas district of West Bengal. It was submitted that presently demand of Salt Lake area is being met from Salt Lake 132 kV AIS and Salt Lake 132 kV GIS. Recently Salt Lake 132 kV AIS (3x50 MVA) substation recorded peak demand about 135 MVA and Salt Lake GIS (2x50 MVA) substation recorded 80 MVA peak demand. Thus creation of new EHV source within Salt Lake area is immediately required for maintaining N-1 contingency in both the above substations and for stable reliable power in and around Salt Lake, as the load concentration as well as load growth within this area is very high. It was also submitted that there is space constraint in existing Salt Lake 132 kV AIS and GIS substations to accommodate new transformers.

It was further submitted that due to non-availability of corridor to draw overhead line, survey has been carried out from Kasba 220 kV substation using UG cable line.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

Connectivity between existing Salt Lake 132 kV GIS and AIS has also been considered with the proposed substation to enhance reliability of power system in Salt Lake area. The proposed substation will cater system requirement commensurate with increase in demand due to load growth in Domestic, Industrial and Commercial sector in the vicinity. After load diversion on the proposed substation, demand of metro railway (40 MVA) may be released from existing 132 kV substations.

It was submitted that establishment of 132/33/11 kV GIS at Salt Lake Stadium was included in the Perspective plan of WBSETCL up to 2021-22 (XIII Plan) which was approved by the Board of Directors, WBSETCL in its 53rd meeting held on 28.07.2016.

It was also submitted that, for establishment of 132/33/11 kV GIS at Salt Lake Stadium, no land is required to be acquired as it will be constructed on the land available with WBSEDCL within Salt Lake Stadium compound. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

F) Construction of Jangalpur 220/132/33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 220/132/33 kV GIS at Jangalpur with 2x160 MVA 220/132 kV Transformers, 2x50 MVA 132/33 kV Transformers, four (4) numbers of 220 kV Line bays, one (1) number of 132 kV Feeder bay, eight (8) numbers of 33 KV feeder bays (with Indoor VCB) along with construction of D/c LILO of Howrah - KTPP 220 kV D/C line at proposed Jangalpur 220 kV GIS.

It was submitted that the proposed substation will be located within Jalan Industrial Estate at Jangalpur in the Howrah district of West Bengal. Presently the demand of the industrial area is met through Jangalpur – I and Jangalpur – II substations of
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

WBSEDCL fed from Domjur 220 kV substation at 33 kV level. WBSEDCL expressed their urgent need for development of EHV source in and around Jangalpur within Jalan Industrial Complex to cater the demand of 100 MVA likely to emerge within 2-3 years and to meet the reliable power supply to existing Industrial consumers and release additional load to intending Industries at higher voltage. With further study, it has been observed that establishment of 220/132/33 kV substation at Jangalpur is only feasible option by D/c LILO of existing Howrah-KTPP 220 kV D/c line of WBSETCL which passes around 500 meters away from the proposed location of Jangalpur EHV substation. M/s Jindal India Limited has agreed to provide the required land at Jangalpur for establishment of 220 kV GIS.

It was further submitted that establishment of proposed substation will ensure reliable and adequate power supply to the existing Industries as well as new industries can be achieved. The connectivity of Jangalpur I and II 33 kV substations and the bulk load at that area will be shifted to proposed Jangalpur 132 kV GIS and it will also provide strong alternative source to adjacent 33/11 kV substations.

It was also submitted that establishment of 220/132/33 kV GIS at Jangalpur has been approved by the Board of Directors, WBSETCL in its 57th meeting held on 11.05.2017.

It was submitted that, for establishment of 220/132/33 kV GIS at Jangalpur, no land is required to be acquired as M/s Jindal India Limited intending 132 kV Bulk consumer of WBSEDCL will provide the requisite land within Jalan Industrial Estate. Process has been initiated to obtain possession of the land.

G) Establishment of new connectivity between two Substations for Transmission system strengthening:
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

i) Construction of Pingla - Keshiary 132 kV D/C Line along with construction of two (2) numbers of 132 kV Feeder bays each at Keshiary and Pingla Substation:

Pingla 132/33 kV substation having installed capacity of 3x50 MVA is radially connection with Midnapur 220 kV substation by a 132 kV D/c line. The present maximum demand of Pingla 132/33 kV substation is 124 MVA. The proposed 132 kV D/c connectivity from ongoing Keshiary 132 kV substation to Pingla 132 kV substation has been contemplated to overcome incoming source constraint and to fulfill N-1 criteria of Pingla 132 kV substation. Keshiary 132 kV substation would be connected with Kharagpur 400 kV through a 132 kV D/c line. As both Pingla & Keshiary are connected with strong source 132 kV D/c link between these substations will improve reliability of the power supply under command area of both substations.

ii) Construction of 132 kV D/c line from Basirhat 132 kV substation to nearest point of existing Barasat – New Town AA-III 132 kV D/c line to establish New Town AA-III – Basirhat 132 kV connectivity along with construction of two (2) feeder bays at Basirhat 132 kV substation:

Basirhat 132/33 kV substation having installed capacity of 2x50+31.5 MVA is radially connected with Ashokenagar 132 kV substation. After up-gradation of Barasat 132/33 kV substation to 220/132/33 kV substation, the existing 132 kV D/c line from New Town AA-III to Barasat would not be required. In view of the above, it was proposed to construct 35 Kms 132 kV D/c line from Basirhat to nearest point of existing Barasat – New Town AA-III 132 kV D/c line to achieve New Town AA-III – Basirhat 132 kV D/c connectivity. The proposed line has been contemplated to improve reliability of the power supply under command areas of both the substations.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

iii) Construction of Raina - Indus 132 kV D/C Line along with construction of two (2) numbers of 132 kV Feeder bays each at Raina and Indus Substation:

Raina 132/33 kV substation having installed capacity of 3x50 MVA is radially connected with Arambag 400 kV substation and the maximum demand has reached 107 MVA in the month of March, 2017. Construction work of Indus 132/33 kV GIS with 132 kV D/c radial connectivity from New Bishnupur 220 kV substation has already been taken for effecting quality and reliable power supply in and around Indus, Rasulpur, Patrasayer, Kotalpur and adjacent areas of Bankura District and to cater future load growth within the area effectively. Raina and Indus substations, connected at strong source, are located around 30 Km apart and have no alternative source to meet the contingency. Accordingly, 132 kV connectivity has been contemplated to improve reliability of the power supply under the jurisdiction of both substations.

iv) Construction of Rampurhat - Bhadrapur 132 kV D/C Line along with construction of two (2) numbers of 132 kV Feeder bays each at Rampurhat and Bhadrapur Substation:

Rampurhat 132/33 kV substation having installed capacity of 2x50 MVA is connected with Gokarna 220/132 kV Substation and Sainthia 132 kV Substation by 132 kV S/c line. The maximum demand of the substation is around 100 MVA. Work/TAA order for installation of 3rd 31.5 MVA 132/33 kV Transformer has already been issued. Loading of Gokarna – Rampurhat 132 kV S/c line reaches over 90 MVA mainly during evening peak hours in Boro season causing acute low voltage problem in the areas. Construction of another 132 kV substation at Bhadrapur has been contemplated by WBSETCL with D/c radial connectivity from Gokarna Substation. Connectivity
Application for approval of incurring capital expenditure of an estimated cost of Rs 805,63,06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

between Rampurhat – Bhadrapur will improve reliability of power supply under the command area of both substations.

v) Construction of Tarakeswar - Jangipara 132 kV D/C Line along with construction of two (2) numbers of 132 kV bays each at Tarakeswar and Jangipara Substation:

Jangipara 132/33 kV substation having installed capacity of 2x31.5 MVA is having a radial connectivity with Domjur 220 kV substation. The maximum demand already reached at 36.5 MVA in the month of March, 2016. Tarakeswar 132 kV substation which is within 16 Km from Jangipara 132 kV substation has 132 kV D/c connectivity with Arambag 400 KV substation and Belmuri 132 kV substation. Interconnection between Jangipara and Tarakeswar will improve reliability of the system of Jangipara 132 kV substation and Tarakeswar 132 kV substation.

3.0 It is stated by WBSETCL that the administrative approval of the above schemes have been accorded in different meetings of Board of Directors (BoD) of WBSETCL, the details of which are as follows:

i) Burdwan 132/33 kV GIS & ATS in 53rd meeting of BoD held on 28.07.2016.
ii) Baruipur 220/132/33 kV GIS & ATS in 48th meeting of BoD held on 17.07.2015 and 55th meeting of BoD held on 07.12.2016.
iii) Minakhan 132/33 kV GIS & ATS in 56th meeting of BoD held on 22.03.2017.
iv) Renia 132/33 kV GIS & ATS in 56th meeting of BoD held on 22.03.2017.
v) Salt Lake Stadium 132/33/11 kV GIS & ATS in 56th meeting of BoD held on 22.03.2017.
vi) Jangalpur 220/132/33 kV GIS & ATS in 57th meeting of BoD held on 11.05.2017.

vii) Construction of Pingla - Keshiary 132 kV D/C Line and associated bays in 47th meeting of BoD held on 14.05.2015.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakhs of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

viii) Construction of New Town AA-III – Basirhat 132 kV 132 kV D/c Line and associated bays in 46th meeting of BoD held on 02.04.2015.


x) Construction of Rampurhat - Bhadrapur 132 kV D/C Line and associated bays in meeting of BoD held on 22.12.2015.

xi) Construction of Tarakeswar - Jangipara 132 kV D/C Line and associated bays in 56th meeting of BoD held on 22.03.2017.

4.0 The project cost, as submitted by WBSETCL in the DPR, for each of the schemes, covered under paragraph 2.0 above are tabulated as under:

(Rs. In Lakh)

<table>
<thead>
<tr>
<th>SL No</th>
<th>Description</th>
<th>Project Cost</th>
<th>Supervision Charge</th>
<th>IDC</th>
<th>Total Project Cost</th>
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<td>Construction of Minakhan 132/33 kV GIS and associated Transmission Systems</td>
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<td>Establishment of new connectivity between two Substations for Transmission system strengthening</td>
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<td>A</td>
<td>Construction of Pingla – Keshiary 132 kV D/c Line via Narayanganj along with construction of two (2) no. 132 kV Feeder bay each at Pingla &amp; Keshiary 132/33 kV Substation</td>
<td>3538.88</td>
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<td>Establishment of Basirhat– NTAA-II/132 kV D/c connectivity along with construction of two (2) no. 132 kV Line bay at Basirhat 132 kV Substation</td>
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<td>Construction of Indus – Raina 132 kV D/c Line along with construction of two (2) nos 132 kV bay each at Indus 132/33 kV GIS and Raina 132/33 kV Substation</td>
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Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

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<tr>
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<th>Construction of Rampurhat – Bhadrapur 132 kV D/c Transmission Line along with construction of two (2) nos 132 kV bay each at Bhadrapur 132/33 kV GIS and Rampurhat 132/33 kV Substation</th>
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<td>E</td>
<td>Construction of Tarakeswar – Jangipara 132 kV D/c Transmission Line along with construction of two (2) nos 132 kV Feeder bay each at Tarakeswar &amp; Jangipara 132/33 kV Substation</td>
<td>1881.09</td>
<td>282.17</td>
<td>181.92</td>
<td>2345.18</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>80506.17</td>
<td></td>
<td></td>
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</table>

However, in paragraph 5 of the application submitted by WBSETCL, the total project cost of all the transmission schemes has been mentioned as Rs. 80563.06 Lakhs against Rs. 80506.17 Lakhs as submitted in the DPRs.

It was also submitted that the projects are proposed to be funded through WBSETCL’s Internal Resources (IR) and through domestic borrowings. The equity component (30%) is proposed to be met through Internal Resources (IR) and the loan component (70%) through domestic borrowings from any Financial Institute and the equity component being released simultaneously with the loan component. The target beneficiary of the projects is WBSEDCL.

Observations of the Commission:

5.0 After scrutiny of the DPRs for all the above transmission schemes submitted along with the petition and the subsequent submissions, the Commission sought for information/clarifications/documents from WBSETCL regarding the following issues:

a) Power flow study considering contingencies as per regulation 2.3.2.2 of West Bengal Electricity Regulatory Commission (State Electricity Grid Code) Regulations, 2007, as amended, for all the projects considering Thermal loading limit as per CEA Manual on Transmission Planning Criteria during power flow studies.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80,563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

b) Reasons for considering 33 kV systems connected in ring main manner during load flow study feeding from different 132 kV sources, whereas 33 kV systems generally do not run in ring main manner.

c) SLD (Single Line Diagram) of all sub-stations.

d) Confirmation whether requirement of Regulation 5.11 of West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulations, 2013 for transfer of lands for Burdwan 132 kV GIS, Minakhan 132 kV GIS, Renia 132 kV GIS and Salt Lake Stadium 132 kV GIS from WBSEDCL to WBSETCL has been complied.

e) Confirmation that no cost will be incurred in acquiring land from M/s Jindal India Limited with Jalan Industrial Estate as per the DPR of Jangalpur 132/33 kV GIS.


g) Implementation schedule regarding metering and real-time data display facilities to SLDC against each project.

The Commission further requested WBSETCL to submit their confirmation regarding compliance of relevant provisions of CEA (Technical Standards for Construction of Electrical Plants and Lines) Regulations, 2010 and West Bengal Electricity Regulatory Commission (State Electricity Grid Code) Regulations, 2007 as amended during construction and operation of the sub-stations.

6.0 WBSETCL submitted their reply to the queries raised by Commission as mentioned in paragraph 5.0 above, vide letter no. CE/CPD/WBERC/2184 dated 27.04.2018 enclosing all
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

relevant documents in support of their clarifications. In their reply WBSETCL, inter alia, submitted the following:

a) Thermal loading of Mankar – Mahachanda 132 kV D/c line is within the ampacity limit for ACSR Panther at 40°C Ambient and 75°C Conductor Temperature, as per CEA’s Manual for Transmission Planning Criteria, 2013.

WBSETCL further submitted that the criteria for single contingency (N-1) under steady state vide clause no. 6.2.1 of CEA’s manual for Transmission Planning Criteria, 2013 has been considered for constructing Burdwan 132/33 kV GIS, Baruipur 220/132/33 kV GIS, Renia 132/ 33 kV GIS and Jangalpur 220/132/33 kV GIS.

b) In real time operation, 33 kV systems run in radial mode though in some areas ring main system exists. During power flow study ring main is considered to see the effect of power flow only in ring main mode.

c) Detailed SLD (Single Line Diagram) of all the sub-stations.

d) WBSETCL submitted that, considering urgency construction work is taken up obtaining permissive possession of the lands from WBSEDCL. Simultaneous action has been initiated for compliance of Regulation 5.11 of West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulations, 2013.

e) In case of land for Jangalpur 220/132/33 kV GIS, the proposed land will be transferred to WBSETCL by M/s Jindal (India) Pvt. Ltd. and its subsidiary companies as gift. A strip of land may be required to be transferred to WBSETCL from LR&R Dept. on Long Term Lease (LTS) basis for which WBSETCL may pay lease premium and yearly lease rent.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,


g) Installation of boundary meters and real time data display facilities to SLDC against each project will be done matching with completion of projects.

WBSETCL further confirmed that during construction of sub-station and associated transmission system relevant provisions of CEA (Technical Standards for Construction of Electrical Plants and Lines) Regulations, 2010 and West Bengal Electricity Regulatory Commission (State Electricity Grid Code) Regulations, 2007 as amended are complied.

7.0 On analyzing the clarifications/ documents submitted by WBSETCL, the Commission further directed WBSETCL to submit additional clarifications/ reasons

a) for considering ampacity limit at ambient temperature of 40°C during the power flow study while computing the thermal loading of Mankar – Mahachanda D/c line with ACSR Panther, whereas clause 5.2 (a) of CEA’s Manual for Transmission Planning Criteria, 2013 inter-alia specifies to consider ambient temperature as 45°C except for hilly areas.

b) for not considering the provisions specified under regulation 2.3.2.2 of West Bengal Electricity Regulatory Commission (State Electricity Grid Code) Regulations, 2007 regarding consideration of contingency with D/c outage and Clause no. 6.3 of CEA’s Manual for Transmission Planning Criteria regarding consideration of N-1-1 condition.

8.0 WBSETCL vide letter no. CE/CPD/WBERC/2346 dated 08.08.2018 submitted further clarifications as under:
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

a) The loading of Mankar-Mahachanda lines as reflected through the study submitted for Burdwan 132 kV GIS is in evening peak hours scenario. WBSETCL also stated that WBSEDCL system peak is normally coming around 20.00 Hrs as per records and claimed that during 19.00 hrs to 20.00 hrs, 45 degree ambient temperature is not recorded anywhere in West Bengal. Therefore, WBSETCL has considered the 40 degree ambient temperature for deciding on allowable thermal limit of conductors. The loading of the mentioned line is always below 366 ampere (the set standard of CEA’s planning criteria corresponding to 45 degree ambient) in midday hours, other than evening peak hours.

WBSETCL further stated that up-gradation of Mahachanda 132 kV Substation to 220 kV GIS has been contemplated in the year 2022-23 considering the above situation.

b) Regarding consideration of contingency with D/c outage as per State Grid Code and N-1-1 condition as per CEA’s Manual for Transmission Planning Criteria, 2013, WBSETCL submitted that they are planning to achieve that benchmark in a phased manner, to avoid huge expenditure at a time. They have also submitted their substation wise contingency plan as below:

i. For Baruipur 220/132/33 kV GIS:

Presently Lakhshmikantapur 220 kV substation getting power from Subhasgram – Lakhshmikantapur 220 kV D/c line is not satisfying N-1 condition. From study result it is evident that after commissioning of Baruipur 220 kV substation (N-1) contingency condition will be satisfied without imposing any partial load shedding (PLS).

WBSETCL also submitted that 400 kV GIS near Lakhshmikantapur has been contemplated to achieve the desired benchmark in future.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80,563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

ii. For Renia 132/33 kV GIS:

LOA for replacement of conductor for 132 kV Kasba – Sonarpur link by AL59 conductor has already been placed.

iii. For Burdwan 132/33 kV GIS:

Burdwan 132 kV GIS will either be in operation radially on Satgachia or SPS (Special Protection Scheme) will be introduced so that if one circuit of Mahachanda – Burdwan trips then another circuit of Mahachanda – Burdwan will also trip. In such condition (N-1-1) will be satisfied without any PLS.

Upgradation of 132 kV Mahachanda substation to 220 kV has already been contemplated in 2022-23 to achieve the benchmark.

iv. For Jangalpur 220/132/33 kV GIS:

To combat with (N-1-1) configuration SPS may be introduced at Jangalpur end for situations like D/C tripping of KTPP-Jangalpur circuits. However other than a few hours of evening peak, the lines connected with Jangalpur 220 kV substation will sustain in (N-1-1) condition without any partial load shedding.

WBSETCL also submitted that Jangalpur 220 kV GIS was contemplated to meet the existing Industrial loads at rated voltage with reliability in the Industrial Park utilising the existing 220 kV KTPP - Howrah D/C line since no corridor for construction of new line from nearby GSS was found. However, if situation demands, capacity augmentation of the existing lines may be considered.

9.0 The Commission further asked WBSETCL to submit their views regarding possibilities of reducing the Project cost by infusing the Capitals available with WBSETCL, in the form of Fixed Deposit in banks, along with the following documents:
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

a) Audited Annual Accounts of WBSETCL for 2017-18;

b) Details of Fixed Deposits held with banks indicating Bank wise Amount, rates of Interest, Date of Investment, Tenure and Maturity Schedule;

c) Loan repayment schedule for the next three years starting from 2018-19;

d) Quarterly phasing of total Capex of WBSETCL for next three years starting from 2018-19 alongwith corresponding financing of Capex through Equity/ Debt and furnishing the same for the projects under consideration;

e) Summary of equity investment plan in different capital projects during 2018-19 vis-à-vis cash surplus during the Financial Year and whether the loan amount in capital projects can be reduced/ replaced by utilizing cash surplus.

10.0 WBSETCL vide letter no. CE/CPD/WBERC/2532 dated 02.01.2019 submitted the relevant documents to the Commission. WBSETCL also mentioned that the fixed deposits appearing in the Financial Statements of the Company as on 31st March, 2018 have been invested as per the mandatory requirements under Statute and are entirely earmarked for the said purpose. WBSETCL further stated that they do not have free Cash Surplus to the extent of reducing the loan requirement of the Project. WBSETCL also stated that, they have been making Capital Investments as allowed by the Commission within the framework of Regulations prescribed for such investments and have also swapped the high interest loan with a Bond issued in 2009-10, the details of which have been submitted through APR of FY 2009-10. WBSETCL also stated that they have always endeavored for reducing the interest on Capital Loans with constant negotiations with the lending institutions which has resulted in the present cheaper rates of finance being availed by the Company for its Capital Projects.

11.0 From the Audited Accounts, detailed Bank statements, statutory requirement of investments and quarterly phasing of total Capex vis-à-vis their loan repayment schedule
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

of WBSEDCL it is observed that WBSETCL has no free liquid fund available for further investment in equity under these projects.

12.0 The Commission considering the additional information/ clarifications/ documents submitted by WBSETCL admitted the petition and directed WBSETCL to publish the gist of their petition as approved by the Commission in the newspapers as per requirement of regulation 2.8.2.3 of the Tariff Regulations. WBSETCL accordingly published the gist of the petition in (i) the Sanbad Pratidin (ii) the Sanmarg (iii) The Telegraph (iv) the Bartaman and (v) the Himalaya Darpan on 27.02.2019 inviting suggestions and objections on their petition latest by 15.03.2019. No suggestion and objection was received by the Commission within the stipulated time-period.

13.0 The Commission further observed that there is a discrepancy in the project cost in respect of construction of 132 kV D/c Transmission Line between Rampurhat and Bhadrapur as filed in the petition and with the enclosed DPR submitted along with the application dated 29.07.2017 and that resulted in difference in total project cost as mentioned in paragraph 4.0 above. The matter was discussed with WBSETCL representative and subsequently vide letter no CE/CPD/WBERC/2660 dated 28.03.2019, WBSETCL requested the Commission to consider the cost of the project as indicated in the DPR. WBSETCL accordingly requested to consider revised project cost of the petition as Rs. 80506.17 Lakhs.

14.0 WBSETCL vide their letters dated 20.04.2019, 03.06.2019 and 04.06.2019 submitted the status of land for the project and the land related documents. WBSETCL has submitted a copy of possession certificate of land from KMDA for construction of Baruipur 220 kV GIS and copy of gift deed of the land gifted by M/s Jindal India Ltd. and others for construction of Jangalpur 220 kV GIS. WBSETCL also submitted supporting documents regarding permissive possession of land for construction of proposed Minakhan 132 kV GIS, Salt Lake 132kV GIS, Renia 132 kV GIS and Burdwan 132 kV GIS within the premises of existing WBSEDCL 33/11 kV sub-stations.
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

Order:

15.0 The Commission after considering all the facts and the project report submitted by WBSETCL along with subsequent submissions, clarifications and documents approves the investment proposal in terms of regulation 2.8.2.3 of the Tariff Regulations with the details as given below:

(Rs. In Lakh)

<table>
<thead>
<tr>
<th>SL No</th>
<th>Description</th>
<th>Project Cost</th>
<th>Supervision Charge</th>
<th>IDC</th>
<th>Total Project Cost</th>
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<tbody>
<tr>
<td>1</td>
<td>Construction of Burdwan 132/33 kV GIS and associated Transmission Systems</td>
<td>4037.38</td>
<td>605.61</td>
<td>463.90</td>
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<td>2</td>
<td>Construction of Baruipur 220/132/33 kV GIS and associated Transmission Systems</td>
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<td>2141.95</td>
<td>1937.81</td>
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<td>3</td>
<td>Construction of Minakhan 132/33 kV GIS and associated Transmission Systems</td>
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<td>879.03</td>
<td>7989.81</td>
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<td>4</td>
<td>Construction of Renia 132/33 kV GIS and associated Transmission Systems</td>
<td>4569.18</td>
<td>685.37</td>
<td>649.59</td>
<td>5904.14</td>
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<td>5</td>
<td>Construction of Salt Lake Stadium 132/33 kV GIS and associated Transmission Systems</td>
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<td>2185.88</td>
<td>1422.96</td>
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<td>6</td>
<td>Construction of Jangalpur 220/132/33 kV GIS and associated Transmission Systems</td>
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<td>964.10</td>
<td>853.76</td>
<td>8245.24</td>
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<td>7</td>
<td>Establishment of new connectivity between two Substations for Transmission system strengthening</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>A</td>
<td>Construction of Pingla – Keshiary 132 kV D/c Line via Narayangarh along with construction of two (2) no. 132 kV Feeder bay each at Pingla &amp; Keshiary 132/33 kV Substation</td>
<td>3538.88</td>
<td>530.53</td>
<td>527.02</td>
<td>4596.43</td>
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<td>B</td>
<td>Establishment of Basirhat NT AA-III 132 kV D/c connectivity along with construction of two (2) no. 132 kV Line bay at Basirhat 132 kV Substation</td>
<td>2800.10</td>
<td>420.02</td>
<td>371.95</td>
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<td>C</td>
<td>Construction of Indus – Raina 132 kV D/c Line along with construction of two (2) nos 132 kV bay each at Indus 132/33 kV GIS and Raina 132/33 kV Substation</td>
<td>2406.66</td>
<td>361.00</td>
<td>276.52</td>
<td>3044.18</td>
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<td>D</td>
<td>Construction of Rampurhat – Bhadrapur 132 kV D/c Transmission Line along with construction of two (2) nos 132 kV bay each at Bhadrapur 132/33 kV GIS and Rampurhat 132/33 kV Substation</td>
<td>2383.35</td>
<td>357.50</td>
<td>230.50</td>
<td>2971.35</td>
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<td>E</td>
<td>Construction of Tarakeswar – Jangipara 132 kV D/c Transmission Line along with construction of two (2) nos 132 kV Feeder bay each at Tarakeswar &amp; Jangipara 132/33 kV Substation</td>
<td>1881.09</td>
<td>282.17</td>
<td>181.92</td>
<td>2345.18</td>
</tr>
<tr>
<td>TOTAL</td>
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Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012,

16.0 The Commission also gives the following directions:

(i) For the purpose of capitalization WBSETCL will have to seek approval of the Commission for the project cost along with actual interest during construction and all actual expenditure incurred or apportioned to the project cost on account of spares, transportation, insurance, tax, establishment charges, tools and plants, audit and accounts, maintenance and losses during construction and consultancy charges and also any actual expenditure met out of contingency. WBSETCL is to provide the cost break-up of each scheme showing the actual vis-à-vis estimation included in the total project cost as above.

(ii) WBSETCL shall ensure proper metering arrangement in line with Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time and arrangement for real time data display at SLDC control room before energization of the sub-station and associated Transmission Systems.

(iii) WBSETCL shall take necessary approval from the Commission in line with Regulation 5.11 of West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulations, 2013 regarding transfer of land from WBSEDCL.

(iv) On completion of each project WBSETCL shall submit the COD and a benefit analysis of the project separately before the Commission.

(v) Original project cost is required to be approved in terms of Regulation 2.8.5 of the Tariff Regulations. Commission may disallow any excess of project cost on capitalization over approved cost if it finds the justifications furnished are not adequate.

(vi) In case of escalation in project cost in any scheme, WBSETCL shall take due approval from the Commission before capitalization of assets.

West Bengal Electricity Regulatory Commission
Application for approval of incurring capital expenditure of an estimated cost of Rs 80563.06 Lakh of West Bengal State Electricity Transmission Company Limited for implementation of different new Transmission schemes in terms of regulation 2.8.2.3 and paragraph 4.1 (vi) of Schedule - 2 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012.

17.0 The petition is thus disposed of. Let a copy of the order be served upon WBSETCL.

Sd/-
(DURGADAS GOSWAMI)
MEMBER

Sd/-
(SUTIRTHA BHATTACHARYA)
CHAIRPERSON

DATED: 24.06.2019

(T. K. MUKHERJEE)
SECRETARY

West Bengal Electricity Regulatory Commission