ORDER
OF THE
WEST BENGAL ELECTRICITY REGULATORY COMMISSION
IN CASE NO. OA-278/18-19

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. 62224.36 LAKH FOR IMPLEMENTATION OF 9 NO NEW EHV SUBSTATIONS AND ASSOCIATED TRANSMISSION SYSTEM 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.

PRESENT:
SRI SUTIRTHA BHATTACHARYA, CHAIRPERSON
SRI DURGADAS GOSWAMI, MEMBER
SRI PULAK KUMAR TEWARI, MEMBER

DATE: 28.01.2020
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

Facts in brief:

1.0 West Bengal State Electricity Transmission Company Limited (in short ‘WBSETCL’) submitted a petition vide letter dated 22.06.2018 for approval of incurring capital expenditure of an estimated cost of Rs. 62224.36 Lakhs for implementation of 9 nos. new EHV Substations and associated transmission system 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 nine (9) schemes. Brief descriptions of the schemes are as follows:

A) Construction of Mongalpur 220/33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for establishment of new 220/33 kV GIS at Mongalpur with 2x100 MVA 220/33 kV Transformers, two (2) numbers of 220 kV Feeder bays, twelve (12) numbers of 33 kV feeder bays (with Indoor VCB switchgear) along with construction of LILO of 220 kV Durgapur – Asansole S/c line at proposed Mongalpur 220 kV GIS.

The proposed substation will be located in Mongalpur in the Burdwan district of West Bengal. Establishment of 220/33 kV Substation at Mongalpur was contemplated to supply adequate, reliable and quality power in and around Lachipur, Mongalpur, to cope up with future load growth in these areas and to release new load of ECL by WBSEDCL.

Present peak demand of Lachipur 33/11 kV Substation is about 21 MVA and receives power mostly from Ukhra 132 kV Substation by 33 kV D/c line. Mongalpur 33/11 kV
Substation with Maximum demand of 23 MVA also receives power from Ukhra 132 kV via Lachipur 33 kV through 33 kV D/c line. These substations are suffering from acute low voltage due to high load concentration and incoming feeder constraint. After establishment of the proposed Mongalpur 220 kV GIS, the referred 33 kV substations could be fed with shorter line length. Upcoming Raniganj 33 kV and Chanda/ Satgram 33 kV substation will be connected with proposed Mongalpur 220/33 kV GIS and other existing/ upcoming 33/11 kV substations at Jamuria, Diamond More etc. will also get strong alternative source. Further, WBSEDCL is going to release new load to Eastern Coalfield Ltd. (ECL) in this area.

Drawal of overhead transmission line is troublesome over the area under Eastern Coalfield Ltd. as the areas is too much congested. Now, to utilize the existing assets in efficient manner WBSETCL considered LILO of Durgapur – Asansole 220 kV S/c which is passing with 0.5 Km from the proposed site of Mongalpur substation as 220 kV connectivity of Mongalpur 220 kV GIS.

Construction of Mongalpur 220 kV Substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

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 vacant space within Mongalpur 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Ramnagar with 2x50 MVA 132/33 kV Transformers, four (4) numbers of 132 kV Feeder Bays, ten (10)
numbers of 33 kV feeder bays (with Indoor VCB) along with construction of D/c LILO of Bajkul – Contai 132 kV D/c line at proposed Ramnagar 132 kV GIS on M/c Tower.

The proposed substation will be located in Ramnagar in the East Midnapur district of West Bengal. Establishment of 132/33 kV Substation at Ramnagar was contemplated to supply adequate, reliable and quality power in the command area of 33/11 kV Substations of WBSEDCL at Ramnagar, Digha, Jinandipur and to cope up with future load growth in these areas.

Present peak demand of Ramnagar 33/11 kV substation is about 13.5 MVA and it receives power mostly from Contai 132 kV substation by 33 kV S/c line via Jinandipur 33 kV substation with approx. line length of 27 Km. There is another standby 33 kV source from Egra 220 kV via Chorpalia 33 kV with approx. line length of 30 Km. Present peak demand of Jinandipur and Chorpalia 33 kV substation are 6 MVA and 9 MVA respectively. Further, Digha 33/11 kV substation with present peak demand of 12 MVA receives power from Ramnagar 33 kV substation through 33 kV single circuit. All these substations are suffering from acute low voltage problem due to drawal of power by long and overloaded 33 kV lines. After establishment of the proposed Ramnagar 132 kV GIS, the referred 33 kV substation could be fed with shorter line length.

Present aggregated maximum demand of these 33 kV substations is around 40 MVA, which may exceed 50 MVA at the end of the year 2021-22 as projected by WBSEDCL. Construction of another 33/11 kV substation at Mandarmoni is under progress which will also be fed from Ramnagar 132 kV.

Presently, there is space constraint at both Egra 220 kV and Contai 132 kV substations to accommodate further new transformer and 33 kV bays and thus establishment of another 132 kV substation in between Egra and Contai is urgently needed to off load both of these substations.
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

The proposed 132 kV substation at Ramnagar will be connected with Bajkul and Contai 132 kV substation and both Bajkul and Contai substations are connected with strong 220 kV source. Evacuation of 200 MW Solar Power Generation from Mandarmani Solar Park is also envisaged through Ramnagar 132 kV substation in future.

Construction of Ramnagar 132 kV substation was prioritised by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was also submitted that construction of 132/33 kV substation at Ramnagar with D/c 132 kV connectivity with both Egra and Contai substation was considered in the approved Rolling Plan of WBSETCL, upto 2018-19.

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

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Panchami with 2x50 MVA 132/33 kV transformers, four (4) numbers of 132 kV Feeder bays, six (6) numbers of 33 kV feeder bays (with Indoor VCB) along with construction of 132 kV D/c Sadaipur - Panchami Transmission line and 132 kV D/c Transmission line from the LILO point of Sainthia – Rampurhat – Kuli line towards Rampurhat to the proposed Panchami 132 kV GIS to establish Kuli – Panchami 132 kV D/c connectivity and two (2) numbers of 132 kV AIS bays at Sadaipur 220 kV substation.

The proposed substation will be located at Panchami in the Birbhum district of West Bengal. Establishment of 132/33 kV substation at Panchami was contemplated to
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supply adequate, reliable and quality power in Panchami, Mollarpur area in Birbhum and to cope up with future load growth in these areas.

At present, power supply in these areas is maintained mostly from Sainthia 132 kV substation. Present load of Panchami 33/11 kV substation of WBSEDCL is about 26 MVA and gets power from Sainthia through a 33 kV feeder of approx. length of 32 Km. The area is suffering from acute low voltage due to overloading of long 33 kV lines. The situation becomes most acute during Boro season. Additional two no. 33/11 kV substations at Panchami – II (Harisingha) and Kastogora are under construction by WBSEDCL to cater quality power with expected new load demand at Panchami and adjacent area. Considering normal load growth rate, aggregated load of these three substations is expected to be of the tune of 50 MVA at the end of 2021-22. Further, as reported by WBSEDCL, some additional load which is likely to be incidental on the proposed Panchami 132 kV GIS are load demand of around 40 MVA for proposed coal mines to be shortly started by the Govt. of West Bengal and around 25 MVA load of running crusher units, which are running by diesel due to low voltage problem within the area.

132 kV D/c connectivity with Sadaipur 220 kV substation is considered as primary source of Panchami 132 kV GIS. Further, to enhance system reliability, another 132 kV D/c connectivity is contemplated from Kuli 132 kV GIS, which will be established by utilizing a part of existing Kuli -Rampurhat – Sainthia 132 kV D/c line via LILO.

Acute low voltage problem at Panchami area was pointed out in the meeting taken by Hon’ble MIC, Power & NES at Suri, Birbhum on 24.08.2016. Construction of Panchami 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was also submitted that, for establishment of 132 kV GIS at Panchami no land is required to be acquired as it will be constructed at the available space marked for
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Panchami II (Harisingha) 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Labhpur with 2x50 MVA 132/33 kV transformers, two (2) numbers of 132 kV Feeder bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB) along with construction of 132 kV D/c Bolpur - Labhpur Transmission Line and construction of two (2) numbers of 132 kV AIS Bays at Bolpur 132 kV substation.

The proposed sub-station will be located at Labhpur in Birbhum District of West Bengal. Establishment of 132/33 kV Substation at Labhpur was contemplated to supply adequate, reliable and quality power in Labhpur, Nanoor, Ahmedpur, Hatia, Khujutipara and Kirnahar area in Birbhum and to cope up with future load growth in these areas.

Present load of Labhpur 33/11 kV substation of WBSEDCL is about 20 MVA and gets power from Bolpur through a 33 kV feeder of approx. length of 27 Km and alternatively Labhpur 33/11 kV substation can avail power from Sainthia 132 kV substation through a single circuit connectivity via Ahmedpur 33 kV substation. Kirnahar 33/11 kV substation of WBSEDCL with present load about 16 MVA has only connectivity with Labhpur 33/11 kV substation. This area is suffering from acute low voltage problem due to incoming feeder constraint and overloading of long 33 kV line which becomes most severe during Boro season. Further, during the Boro season in March, 2017, Sainthia 132 kV substation recorded peak load at about 90% of its transformer capacity of 2x50 MVA and Bolpur 132 kV substation with transformer capacity of 3x50 MVA recorded peak load of 106 MVA. Another 33/11 kV substation at Hatia is under construction which will also be connected with Labhpur 33 kV Bus. Therefore, the
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aggregated load which will be incidental on Labhpur substation is expected to the tune of 50 MVA initially.

132 kV D/c connectivity with Bolpur 132 kV substation is considered as source of Labhpur 132 kV GIS. At present, Bolpur 132 kV substation is connected with Durgapur 220 kV substation and Sadaipur 220 kV substation through 132 kV D/c lines.

Acute low voltage at Labhpur area was pointed out in the meeting taken by Hon’ble MIC, Power and NES at Suri, Birbhum on 24.08.2016. Construction of Labhpur 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was further submitted that, for establishment of 132 kV GIS at Labhpur no land is required to be acquired as it will be constructed at the available vacant space within Labhpur 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Kushmundi with 2x50 MVA 132/33 kV Transformers, two (2) numbers of 132 kV feeder bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB) along with construction S/c LILO of Raiganj – Gangarampur 132 kV S/c at proposed Kushmundi 132 kV GIS.

The proposed substation will be located at Kushmundi in the Dakshin Dinajpur district of West Bengal. Establishment of 132/33 kV substation at Kushmundi was contemplated to supply adequate, reliable and quality power in and around Kaliaganj, Kushmundi, Itahar and Hariramapur in Dakshin Dinajpur District and to cope up with future load growth in these areas.
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV substations and associated transmission system 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.

At present, power supply of these areas is maintained from Raiganj 132 kV and Gangarampur 132 kV substation. Kushmundi 33/11 kV substation draws power from Gangarampur 132 kV substation via Buniadpur 33 kV substation through 33 kV line of approx. length of 25 Km. Harirampur 33 kV substation has connectivity with Kushmundi and Buniadpur 33 kV substation and is 18 Km apart from Kushmundi. Kaliaganj 33 kV substation draws power from Raiganj 132 kV substation through 2 nos. of 33 kV feeders via Hemtabad 33 kV substation. Itahar 33 kV substation also receives power from Raiganj source via Raiganj 33 kV substation and is 22 Km apart. All these substations are suffering from acute low voltage problem due to drawal of power by long 33 kV lines. After establishment of the proposed Kushmundi 132 kV GIS, the referred 33 kV substation could be fed with shorter line length.

Present aggregated maximum demand of these 33 kV substation is around 40 MVA which may exceed 68 MVA at the end of 2021-22 as proposed by WBSEDCL. Considering higher load requirement in and around Kaliaganj and Kushmundi, WBSEDCL has proposed for establishment of 132 kV substation at Kushmundi to mitigate low voltage problem in the areas under Itahar and Harirampur blocks. Buniadpur 33/11 kV substation with present maximum demand about 17 MVA will also get strong alternative source.

LIL0 of Raiganj – Gangarampur 132 kV S/c line which passes within 0.5 Km from the proposed location of the substation has been considered as 132 kV connectivity of Kushmundi 132 kV GIS.

Construction of Kushmundi 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was further submitted that, for establishment of 132 kV GIS at Kushmundi no land is required to be acquired as it will be constructed at the available vacant space within
Kushmudi 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permissive possession of said land from WBSEDCL authority.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Harishchandrapur with 2x50 MVA 132/33 kV Transformers, four (4) numbers of 132 kV Feeder bays, ten (10) numbers of 33 kV feeder bays (with Indoor VCB Switchgear) along with construction of D/c LILO of Malda – Samsi – Raiganj 132 kV D/C Transmission line at proposed Harishchandrapur 132 kV GIS.

It was submitted that the proposed substation will be located at Harishchandrapur in the Malda district of West Bengal. Establishment of 132/33 kV Substation at Harishchandrapur was contemplated to supply adequate, reliable and quality power in the command area of Harishchandrapur, Tulsihata, Ashapur, Chanchal and Bhaluka 33/11 kV substations in Malda District and to cope up with future load growth in these areas.

At present, power supply of these areas is maintained from Samsi 132 kV substation. Samsi 132 kV substation with transformer capacity of (50+2x31.5) MVA is the only EHV source in the northern part of Malda District and present maximum demand is about 82 MVA. Present load of Harishchandrapur 33/11 kV substation of WBSEDCL is about 22 MVA and getting power from Samsi 132/33 kV substation via Chanchal 33/11 kV substation through 33 kV feeder. Present load of Chanchal 33 kV substation is about 25 MVA. Both Chanchal and Harishchandrapur are suffering from acute low voltage problem due to incoming feeder constraint and overloading of long 33 kV lines. Chanchal has another 33 kV connectivity with Raiganj 132 kV substation which is located over 30 Km radially from Chanchal. After establishment of the proposed Harishchandrapur 132 kV GIS, above 33 kV sub-stations could be fed with shorter line.
length. Connectivity of upcoming Ashapur and Tulsihat 33/11 kV substation will be established from proposed Harishchandrapur 132 kV GIS. Further, Chanchal, Bhaluka and Harirampur 33/11 kV substations which are 20 Km apart from the proposed substation will also get strong alternative source. The expected demand to be incident on the proposed Harishchandrapur 132/33 kV GIS is around 42 MVA as projected by WBSEDCL.

Malda – Samsi – Raiganj 132 kV D/c line passes about 28 Km apart from the proposed location of the substation. However, after commissioning of Gazol 220 kV, the said line will be reconfigured as Gazol – Raiganj 132 kV D/c. LILO of the said line has been considered as 132 kV connectivity of the proposed Harishchandrapur 132 kV GIS which will establish connectivity with Gazol and Raiganj.

Construction of Harishchandrapur 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was further submitted that, for establishment of 132 kV GIS at Harishchandrapur no land is required to be acquired as it will be constructed at the available vacant space within Harishchandrapur 33/11 kV substation of WBSEDCL. Process has been initiated to obtain permisive possession of said land from WBSEDCL authority.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Kona with 3x50 MVA 132/33 kV Transformers, four (4) numbers of 132 kV Feeder bays, twelve (12) numbers of 33 kV feeder bays (with Indoor VCB Switchgear) along with construction of S/c LILO of Liluah – Rishra 132 kV S/c Line and Liluah – Dankuni 132 kV S/c Line at proposed Kona 132 kV GIS.
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

It was submitted that the proposed substation will be located at Kona in the Howrah district of West Bengal. Establishment of 132/33 kV Substation at Kona was contemplated to supply adequate, reliable and quality power in and around Kona, Lakshmanpur, Bally, Belgachia in Howrah District and to cope up with future load growth in these areas.

At present, power supply of these areas is maintained mostly from Liluah 132 kV substation. Peak demand of Liluah substation with transformer capacity of 3x50 MVA recorded presently is 119.5 MVA. There is also space constraint to accommodate new transformers and 33 kV bays. The proposed Kona 132 kV substation will be beneficial to divert a substantial part of 33 kV load from Liluah 132 kV substation using existing 33 kV network. With construction of Kona 132 kV GIS, load of Kona 33 kV substation and Kona Truck Terminus 33 kV substation in the tune of 40 MVA will be shifted from Liluah 132 kV substation immediately. Connectivity with 33/11 kV upcoming/ ongoing substations at Lakshmanpur, Bally, Belgachia, South City Anmol Park and KVIC will be affected from the proposed Kona 132 kV GIS. Further several “Micro, Small & Medium Enterprise” (MSME) Hubs are being promoted in the area which will be fed from proposed Kona 132 kV GIS. The aggregated load demand may exceed 65 kVA immediately after commissioning of Kona 132/33 kV GIS and also may increase to 75 MVA at the end of 2021-22 as projected by WBSEDCL.

LIL of Liluah – Dankuni 132 kV S/c and Liluah – Rishra 132 kV S/c which passes over the proposed location of the substation has been considered as 132 kV connectivity of Kona 132 kV GIS.

Construction of Kona 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

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

H) Conversion of Bagula 66/33/11 kV Substation to 132/33 kV Gas Insulated Substation (GIS) and associated transmission system (ATS):

WBSETCL has proposed for conversion of existing 66/33/11 kV Bagula substation in the Nadia district of West Bengal to 132/33 kV GIS with 2x50 MVA 132/33 kV Transformers, 2x10 MVA 33/11 kV Transformers, four (4) numbers of 132 kV Feeder bays, eight (8) numbers of 33 kV feeder bays (with Indoor VCB Switchgear), 11 kV Indoor Switchgear along with construction of D/c LILO of Krishnanagar - Bongaon 132 kV D/c Line at proposed Bagula 132 kV GIS.

At present, Bagula 66/33/11 kV substation is the only 66 kV substation of WBSETCL in South Bengal. It has only single circuit 66 kV source from Ranaghat 132 kV Substation. The peak demand of the substation with transformer capacity of 2x5 MVA at 66/33 kV level and (3x5+6.3) MVA at 66/11 kV level has already reached its full capacity. Aranghata 33/11 kV substation of WBSEDCL with preset load about 16 MVA is getting power from Bagula 66 kV substation. Due to source constraint at Bagula 66 kV substation, another 33/11 kV Substation at Krishnaganj which is within 10 Km (radially) from Bagula 66 kV substation and having present load about 10 MVA draws power from Krishnagar 220 kV substation which is 25 Km (radially) apart. Aggregated load of Aranghata, Krishnaganj and Bagula is around 43 MVA which is expected to the tune of 50 MVA at the end of 2021-22.

The proposed 132 kV Bagula substation will improve power quality and reliability. It will also cater system demand commensurate with increase in demand due to load growth in domestic, industrial, commercial and agricultural sector in the vicinity including the demand arising out of Rural Electrification programme.
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

LILO of Krishnanagar – Bongaon 132 kV D/c line has been considered as connectivity of the proposed Bagula 132 kV GIS. Bongaon 132 kV substation has D/c connectivity with Jeerat 400 kV substation, which act as primary source of Bongaon substation.

Conversion of 66 kV substation at Bagula to 132 kV substation was prioritized by WBSEDCL in the coordination meeting between WBSEDCL and WBSETCL chaired by CMD, WBSEDCL held on 04.01.2017.

It was further submitted that, for establishment of 132 kV GIS at Bagula no land is required to be acquired as it will be constructed within the existing 66 kV substation of WBSETCL.

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

WBSETCL has proposed for establishment of new 132/33 kV GIS at Manbazar with 2x20/31.5 MVA 132/33 kV Transformers (available from system), two (2) numbers of 132 kV Feeder bays, ten (10) numbers of 33 KV feeder bays (with Indoor VCB Switchgear) along with construction of Hura – Manbazar 132 kV D/c Transmission Line and two (2) numbers of 132 kV AIS bays at Hura 220 kV substation.

It was submitted that the proposed substation will be located at Manbazar in the Purulia district of West Bengal. Establishment of new 132/33 kV substation at Manbazar was contemplated to ensure supply of adequate and quality power to industrial, commercial and domestic sector under 33/11 kV substations at Manbazar, Boro, Bundwan, Puncha and Barabazar of WBSEDCL.

These substations presently draw power from Hura 220 kV substation and Purulia 132 kV substation through long distance 33 kV lines ranging from approx. 35 Km to 85 Km line length. Though, individual load of all these 33/11 kV substation are very little, they are facing acute low voltage problem due to long distance 33 kV lines. WBSETCL has no EHV substation in the eastern part of Purulia District and nearest substation of
Manbazar is Khatra 132 kV substation at Bankura which is radially 30 km apart. After establishment of proposed Manbazar 132 kV substation, these 33 kV substations could be fed from Manbazar with shorter line length. The expected demand to be incident on Manbazar 132/33 kV GIS is around 24 MVA at the end of 2021-22.

132 kV D/c connectivity with Hura 220 kV substation [RL=38 Km] has been considered as source of Manbazar 132 kV GIS.

It was further submitted that, for establishment of 132 kV GIS at Manbazar Govt. vested land will be available at Mouza – Bari, P.S Boro at Manbazar-II Block for construction of EHV substation. 2.51 Acre land has already been demarcated and processed from long term settlement.

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

i) Mongalpur 220/33 kV GIS & ATS in 58th meeting of BoD held on 25.07.2017.

ii) Ramnagar 132/33 kV GIS & ATS in 58th meeting of BoD held on 25.07.2017.

iii) Panchami 132/33 kV GIS & ATS in 59th meeting of BoD held on 15.09.2017.

iv) Labhpur 132/33 kV GIS & ATS in 59th meeting of BoD held on 15.09.2017.


viii) Bagula 132/33 kV GIS & ATS in 59th meeting of BoD held on 15.09.2017.

ix) Manbazar 132/33 kV GIS & ATS in 62nd meeting of BoD held on 16.03.2018.

4.0 WBSETCL subsequently through an application dated 03.05.2019 and supplementary petition dated 02.08.2019 revised the project cost from Rs. 62224.36 Lakh to Rs. 61693.76 Lakh on account of typographical error in abstract estimate of Panchami 132 kV GIS and
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

ATS, Labhpur 132 kV GIS and ATS and Bagula 132 GIS and ATS. WBSETCL further stated that the land cost of Manbazar 132 kV GIS was also incorporated in the revised estimate.

5.0 The project cost, as submitted by WBSETCL in the supplementary petition dated 02.08.2019, 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>
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<th>Total Project Cost</th>
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<tr>
<td>A</td>
<td>Construction of Mongalpur 220/33 kV GIS and associated Transmission Systems</td>
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<td>617.21</td>
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<td>5204.75</td>
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<td>1110.23</td>
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<td>902.95</td>
<td>9940.52</td>
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<td>625.93</td>
<td>479.45</td>
<td>5278.23</td>
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<td>Construction of Kushmundi 132/33 kV GIS and associated Transmission Systems</td>
<td>2554.26</td>
<td>383.14</td>
<td>293.48</td>
<td>3230.88</td>
</tr>
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<td>F</td>
<td>Construction of Harishchandrapur 132/33 kV GIS and associated Transmission Systems</td>
<td>6948.95</td>
<td>1042.35</td>
<td>798.42</td>
<td>8789.72</td>
</tr>
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<td>G</td>
<td>Construction of Kona 132/33 kV GIS and associated Transmission Systems</td>
<td>3420.49</td>
<td>513.07</td>
<td>393.01</td>
<td>4326.57</td>
</tr>
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<td>H</td>
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<td>698.99</td>
<td>535.42</td>
<td>5894.39</td>
</tr>
<tr>
<td>I</td>
<td>Construction of Manbazar 132/33 kV GIS and associated Transmission System</td>
<td>5236.12</td>
<td>781.09</td>
<td>788.54</td>
<td>6805.75</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>61693.76</td>
</tr>
</tbody>
</table>

It was also submitted that the projects are proposed to be funded through WBSETCL’s Internal Resources and through domestic borrowings. The equity component (30%) is proposed to be met through Internal Resources 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:**

6.0 After scrutiny of the DPRs for all the above transmission schemes submitted along with the petition, the Commission sought for information/ clarifications/ documents from WBSETCL regarding the following issues:
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

a) System study report of the existing network to ascertain the extent of improvement of voltage for all the substations in the scheme.

b) 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 Mongalpur 220 kV GIS, Ramnagar 132 kV GIS, Panchami 132 kV GIS, Labhpur 132 kV GIS, Kushmundi 132 kV GIS, Harishchandrapur 132 kV GIS and Kona 132 kV GIS from WBSEDCL to WBSETCL has been complied.

c) Present status of transfer of land along with cost involvement, if any.

d) Cost involvement of long-term settlement (lease basis) of 2.51 Acre Vested/ Govt. Land for construction of Manbazar substation.

e) Relevant references whether the projects have been approved under the perspective plan in terms of Regulation 2.9.3 of Tariff Regulations

f) Reasons for considering 220 kV Towers while estimating the construction of 132 kV Sadaipur – Panchami D/c Line and 132 kV Bolpur – Labhpur D/c Line in the DPR for Panchami 132 kV GIS and Labhpur 132 kV GIS respectively.

g) Ascertaining reliability through a system study report in case of outage of Raiganj – Kushmundi 132 kV S/c line for implementation of Kushmundi 132 kV GIS.

h) Clarification regarding mismatch of load observed at Liluah 132 kV Bus in the system study submitted along with the DPR of Kona 132 kV GIS.

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
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

(State Electricity Grid Code) Regulations, 2007 as amended during construction and operation of the sub-stations.

7.0 WBSETCL submitted their reply to the queries raised by Commission as mentioned in paragraph 6.0 above, vide letter no. CE/CPD/WBERC/2523 dated 28.12.2018 and vide letter no. CE/CPD/WBERC/2556 dated 17.01.2019 enclosing all relevant documents in support of their clarifications. In their reply WBSETCL, inter alia, submitted the following:

7.1 Study report of existing transmission/ distribution network for all the proposed EHV substations covered under the petition. The study results substantiate the low voltage issue as well as overloading of existing network.

7.2 WBSETCL submitted that, considering urgency of the projects LOA for construction of Mongalpur 220 kV GIS, Ramnagar 132 kV GIS, Panchami 132 kV GIS, Labhpur 132 kV GIS, Kushmundi 132 kV GIS, Harishchandrapur 132 kV GIS at available space in WBSEDCL substation has already been placed after getting go ahead clearance from WBSEDCL. Regulatory compliance of Regulation 5.11 of West Bengal Electricity Regulatory Commission (Licensing and Condition of License) Regulations, 2013 for transfer of land will be done subsequently.

7.3 Permissive possession of land for Ramnagar 132 kV GIS, Harishchandrapur 132 kV GIS and Kona 132 kV GIS has already been obtained.

7.4 Long Term Settlement (LTS) proposal for Manbazar 132 kV GIS has been sent to DL&LRO, Purulia and same has been processed and forwarded to L&LR Dept. by the DL&LRO, Purulia. It appears from their letter that the salami has been calculated to Rs. 79,34,000/- which is subject to the approval of the L&LR Dept. The final cost of land can be specified only after obtaining formal letter from L&LR Dept.

7.5 WBSETCL stated that they have taken approval of the Commission for incurring capital expenditure to implement the Perspective plan up to 2016-17 in Case No. OA-125/11-12

West Bengal Electricity Regulatory Commission
dated 25.05.2012. WBSETCL also got approval of Perspective plan upto 2021-22 as a part of their ARR for the year 2017-18 by the Commission. WBSETCL further submitted that six (6) projects proposed in the petition are spill over schemes of approved plan with necessary modifications based on the system requirements as tabulated below. WBSETCL also stated that establishment of Ramnagar 132 kV GIS, Panchami 132 kV GIS and Harishchandrapur 132 kV GIS was not in the scheme of approved perspective plan of WBSETCL. However, these substations were considered due to exigency as proposed by WBSEDCL.

<table>
<thead>
<tr>
<th>SI No.</th>
<th>Earlier Approved Scheme under</th>
<th>Modified Present Scheme</th>
<th>Reasons for Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Perspective Plan upto 2016-17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Andal 220/132/33 kV S/L LILO of Durgapur – Asansole – STPS 220 kV D/c</td>
<td>Mongaipur 220/33 kV GIS LILO of Durgapur – Asansole 220 S/c</td>
<td>Due to load concentration in and around Mongaipur, Lachipur and Raniganj</td>
</tr>
<tr>
<td>2</td>
<td>Suri 132/33 kV SS N. Saithia (Sadaipur) – Suri 132 kV D/c</td>
<td>Labhpur 132 kV GIS Bolpur – Labhpur 132 kV D/c</td>
<td>Due to load concentration in and around Labhpur</td>
</tr>
<tr>
<td>4</td>
<td>Manbazar 132/33 kV SS Hura – Manbazar 132 kV D/c and Khatra – Manbazar 132 kV D/c</td>
<td>Manbazar 132 kV GIS Hura – Manbazar 132 kV D/c</td>
<td>2nd Connectivity of Manbazar will be considered at later stage</td>
</tr>
<tr>
<td>B.</td>
<td>Perspective Plan upto 2021-22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Itahar 132 kV GIS LILO of Gazol – Raiganj</td>
<td>Kushmundi 132 kV GIS LILO of Raiganj – Gangarampur 132 kV S/c</td>
<td>Due to load concentration in and around Kushmundi and Kaliaganj</td>
</tr>
<tr>
<td>6</td>
<td>Bagula 132 kV GIS Conversion of Ranaghat – Bagula 132 kV S/c and Krishnagar – Bagula 132 kV D/c</td>
<td>Bagula 132 kV GIS LILO of Bongaon Krishnagar 132 kV D/c</td>
<td>Connectivity scheme has been changes for better utilization of existing line asset of WBSETCL</td>
</tr>
</tbody>
</table>

7.6 Towers of 220 kV voltage class are used in 132 kV Sadaipur – Panchami D/c Line and 132 kV Bolpur – Labhpur D/c Line due to higher available extension for crossing of another 132 kV D/c line for achieving requisite electrical clearance from earth wire of existing line to the bottom conductor of the proposed line at the point of crossing as the existing tower structure of 132 kV voltage has maximum available clearance of +15 mtr. and the maximum height of bottom conductor is 28 mtr.
7.7 WBSETCL submitted study report to ascertain the reliability of Kushmundi 132 kV GIS in case of outage of Raiganj – Kushmundi 132 kV S/c line. The study shows very high loading of Balurghat – Gangarampur 132 kV S/c line in case of outage of Raiganj – Kushmundi 132 kV S/c line.
WBSETCL further stated that LILO of Gazol – Balurghat 132 kV D/c line at Gangarampur has been contemplated in the approved perspective plan of WBSETCL upto 2024-25 to meet up such contingency. WBSETCL also submitted another study considering the proposed LILO of Gazol – Balurghat 132 kV D/c line at Gangarampur.

7.8 WBSETCL stated that there is mismatch in inflow and outflow at Liluah 132 kV Bus which was occurred due to CESC load and 132/25 kV Traction Transformer load which were not shown in the previous snapshot of system study.
WBSETCL further submitted a fresh snapshot of the study indicating all loads at Liluah 132 kV Bus.

7.9 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.

8.0 WBSETCL through application dated 03.05.2019 and subsequently vide letter dated 12.06.2019 submitted the status of land for the project and the land related documents. WBSETCL has submitted (i) copy of possession certificate of land from WBSEDCL for construction of Ramnagar 132 kV GIS, (ii) copy of possession certificate of land from WBSEDCL for construction of Kona 132 kV GIS, (iii) copy of possession certificate of land from WBSEDCL for construction of Harishchandrapur 132 kV GIS, (iv) copy of possession certificate of land from WBSEDCL for construction of Panchami 132kV GIS, (v) copy of possession certificate of land from WBSEDCL for construction of Labhpur 132 kV GIS, (vi) copy of possession certificate of land from WBSEDCL for construction of Kushmundi 132
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

kV GIS and (vii) copy of possession certificate of land from WBSEDCL for construction of Mongalpur 220 kV GIS.

9.0 The Commission considering the additional information/ clarifications/ documents submitted by WBSETCL admitted the petition on 29.08.2019 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 Bartaman (ii) the Times of India and (iii) the Aajkal on 06.09.2019 inviting suggestions and objections on their petition within 14 days (including the date of publication) of publication of the notice in Newspaper. No suggestion and objection were received by the Commission within the stipulated time-period.

10.0 WBSETCL vide letter dated 12.09.2019 further submitted copy of Long Term Settlement Order of 2.50 Acres of Govt. vested land by Dept. of Land and Land Reforms and R.R & R.LR-A III GE(M) Branch, “Nabanna” in favour of WBSETCL for construction of Manbazar 132 kV GIS. WBSETCL also stated that possession of the land for construction of Manbazar 132 kV GIS will be taken shortly after deposition of Salami and annual rent.

11.0 WBSETCL vide letter dated 01.11.2019 further submitted that the projects were contemplated to meet up the growing load demand in the vicinity and to maintain reliable and quality power supply and accordingly tender for these projects has been published and subsequently LOA has been placed to complete these projects in time and to meet-up the constraint faced by the distribution utilities to maintain power supply at their jurisdiction. WBSETCL in their letter also mentioned that, due to misunderstanding, the work of the transmission projects under the petition has been already started on the basis of approval of Board of Directors of the Company. However, WBSETCL has already issued instruction to all directorates to start work of such type of transmission project in future only after approval of the Commission. WBSETCL also requested to accord approval of the projects.
12.0 The Commission observes that, in terms of Regulation 2.8.2.3 of Tariff Regulations, approval of the Commission for investment in new transmission project is mandatory after 31.12.2007. The Commission also observes that the regulation inter-alia specifies approval of the project shall be taken before investment is made in order to minimize the investment risk. The Commission also noted that six (6) numbers of project viz. Mongalpur 220 kV GIS and ATS, Labhpur 132 kV GIS and ATS, Kona 132 kV GIS and ATS, Manbazar 132 kV GIS and ATS, Kushmundi 132 kV GIS and ATS and Bagula 132 kV GIS and ATS is modification and spill over of the earlier approved schemes under the perspective plan approved by the Commission. The Commission further noted that three (3) number of projects viz. Ramnagar 132 kV GIS, Panchami 132 kV GIS and Harishchandrapur 132 kV GIS was not in the perspective plan and these projects were considered due to exigency as proposed by WBSEDCL.

Order:

13.0 The Commission after considering all the facts and the project report submitted by WBSETCL in the petition vide letter dated 22.06.2018 along with application dated 03.05.2019 and supplementary petition dated 02.08.2019 and subsequent submissions, clarifications, documents and duly noting the submission under letter dated 01.11.2019, approves the investment proposal in terms of regulation 2.8.2.3 of the Tariff Regulations with the details as given below:

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<th>SL No</th>
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(Rs. In Lakh)
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<td></td>
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14.0 The Commission also gives the following directions:

(i) In future, WBSETCL shall not make any progress towards implementation of a project before obtaining prior approval of the Commission as per provisions of Tariff Regulations.

(ii) For the purpose of capitalization, actual project cost is to be got approved by the Commission 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.

(iii) 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.

(iv) 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.
Approval of incurring capital expenditure by West Bengal State Electricity Transmission Company Limited for implementation of 9 no new EHV Substations and associated transmission system 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.

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

(vi) 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.

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

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

Sd/-  
(PULAK KUMAR TEWARI)  
MEMBER

Sd/-  
(DURGADAS GOSWAMI)  
MEMBER

Sd/-  
(SUTIRTHA BHATTACHARYA)  
CHAIRPERSON

Dated: 28.01.2020

(T. K. MUKHERJEE)  
SECRETARY

West Bengal Electricity Regulatory Commission