SL. No. 333 /2020

भारतीय गैर न्यायिक

पचास रुपये ₹.50

भारत

FIFTY RUPEES Rs.50

सत्यमेव जयते

INDIA

INDIA NON JUDICIAL

पश्चिमबङ्ग पश्चिम बंगाल WEST BENGAL

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SUDIP CHAUDHURI * NOTARY 6504/2008 BIDHANNAGAR COURT 24 PGS. (N) GOVT. OF INDIA

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

BEFORE THE WEST BENGAL ELECTRICITY REGULATORY COMMISSION, KOLKATA

File no._____

Case no._____

In the matter of : Application for approval of incurring Capital Expenditure of an estimated cost ₹ 9565.50 Lakh for establishment of 132/33 kV Gas Insulated Sub-station at Chapra, District – Nadia and Associated Transmission System. This is 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 Condition of Tariff) Regulations, 2011, as amended.

AND

In the matter of : West Bengal State Electricity Transmission Company Limited, Vidyut Bhavan, Block – DJ, Sector – II, Bidhannagar, Kolkata – 700091.

ATTESTED
S. CHAUDHURI
★ NOTARY ★
GOVT. OF INDIA
Regd. No.-6504/08
Bidhannagar Court
Dist.-North 24 Pgs

09 SEP 2020

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ক্রেতা WBSETCL Ltd. মূল্য ৫/-

সাং Biddyut Bhavan, Salt Lake. Kol-91

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

তাং 01 SEP 2020 স্বাক্ষর

SUDIP CHAUDHURI ★ BIDHANNAGAR COURT 24 PGS. (N) GOVT. OF INDIA
NOTARY
6584/2008

Affidavit verifying the petition / reply / application.

I, Sri Asit Karmakar, Son of Late Panchanan Karmakar, aged 59 years residing at Flat No. – 1B, Trina Co-operative Housing Society, Plot No. – BA 71, New Town AA-I, Kolkata – 700 156 do solemnly affirm and say as follows :

I am the Chief Engineer, Central Planning Department of the West Bengal State Electricity Transmission Company Limited (WBSETCL), petitioner in the above matter, and I am duly authorized by the said petitioner to make this affidavit for and on its behalf.

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

Solemnly affirmed at Kolkata on this 9th day of September, 2020 that the contents of this affidavit are true to my knowledge, no part of it is false of nothing material has been concealed there form and misleading material included therein.

Place : Kolkata
Date : 09/09/2020

(ASIT KARMAKAR)
Chief Engineer
Central Planning Department
W B S E T C L

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NOTARY
6584/2008
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BEFORE THE HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

In the matter of : Application for approval of incurring Capital Expenditure of an estimated cost ₹ 9565.50 Lakh for establishment of 132/33 kV Gas Insulated Sub-station at Chapra, District – Nadia and Associated Transmission System. This is 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 Condition of Tariff) Regulations, 2011, as amended.

AND

In the matter of : West Bengal State Electricity Transmission Company Ltd., Vidyut Bhavan, Block – DJ, Sec – II, Bidhannagar, Kolkata –700091

Respectfully Sheweth :-

1. The petitioner is a Transmission Licensee under Electricity Act, 2003 having its Head Office at Vidyut Bhavan, Block – DJ, Sector – II, Bidhannagar, Kolkata – 700091.

2. In terms of Regulation 2.8.2.3 and Paragraph 4.1 (vi) of Schedule – 2 of West Bengal Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2011, as amended, the Transmission Licensee (WBSETCL) is required to seek Hon'ble Commission's approval prior to incurring capital expenditure. These regulations were notified in the Kolkata Gazette vide notification No. : 49/WBERC dt : 27/08/12.

3. Name of the Project : Construction of 132/33 kV Gas Insulated Sub-station at Chapra, District – Nadia and Associated Transmission System.

4. Project Details :
   - ✓ Construction of 132/33 kV Gas Insulated Substation at Chapra with
     - 4 no 132 kV feeder bays,
     - 2x50 MVA 132/33 kV Transformers,
     - 9 no 33 kV feeder bays.
     - 2x10 MVAR 33 kV Capacitor bank
   - ✓ LILO of Krishnanagar – Debogram 132 kV D/C Transmission Line at proposed Chapra 132 kV GIS (RL ≃ 37.00 Km).

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5. Financial implication:

Sl. no.	Description		Amount (₹ in Lakh)
1	Construction of Chapra 132/33 kV GIS with 4 no 132 kV feeder bays, 2x50.0 MVA 132/33 kV Transformers, 9 no 33 kV feeder bays & 2x10 MVAR 33 kV Capacitor Bank.	Cost of Land	Nil
		Cost of Transformers	504.21
		Cost of Supply	1996.37
		Cost of Erection	124.73
		Cost of Civil work	654.92
2	D/C LILO of Krishnanagar - Debogram 132 kV D/C line at proposed Chapra 132 kV Substation (Route Length ≈ 37 KM).	Cost of Supply	1781.56
		Cost of Erection	2465.51
	Total Cost		7527.30
3	Supervision Charge		1129.09
	Total Project Cost		8656.39
4	IDC		909.11
	Project Cost including IDC		**9565.50**

6. **A brief description of each of the scheme is given hereunder** :

Establishment of new 132/33 kV sub-station at Chapra was contemplated to cater growing load demand under the command area of Chapra, Dhublia, Sakda, Krishnaganj, Nakashipara, Bara Andulia, Dayerbazar 33/11 kV Substations of WBSEDCL and to supply adequate, reliable & quality power supply in the vicinity.

Present peak load demand of Chapra 33/11 kV Substation is around 17 MVA & have 33 kV S/C connectivity with Krishnanagar 220 kV (route length ≃ 24 Km) & Tehatta 33 kV Substation (route length ≃ 28 Km). Krishnanagar – Chapra 33 kV S/C line is proposed to be LILOed at Dayerbazar (under construction) 33/11 kV Substation and Tehatta – Chapra 33 kV S/C line will be LILOed at proposed Baro Andulia 33/11 kV Substation. Projected load of ongoing Dayerbazar & Baro Andulia 33/11 Substation is about 4 MVA & 5 MVA respectively.

Dhublia 33 kV Substation with maximum demand 10 MVA draw 33 kV feed from Krishnanagar 220 kV Substation (route length ≃ 17 Km). Dhublia 33 kV has another 33 kV S/C connectivity with Nikashipara 33/11 kV Substation (route length ≃ 16 Km). Nikashipara 33/11 kV Substation with demand 6 MVA draw its feed from Debogram 132 kV through 33 kV S/C line (route length ≃ 13 Km). Both Dhublia & Nikashipara 33 kV Substations are within closed proximity to proposed Chapra 132 kV GIS. Dhublia 33 kV SS may draw power from Chapra 132 kV GIS and Nikashipara 33 kV will get strong alternative source.

Krishnaganj 33 kV & Sakda 33 kV Substation with present aggregated load about 7.3 MVA draw 33 kV feed from Krishnanagar 220 kV through 33 kV S/C line (route length over 30 Km). These Substations have no alternative source. Both these 33 kV Substations are within 20 KM from Chapra 132 kV GIS (proposed) and they will be connected with 33 kV Bus of Chapra 132 kV.

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It is expected that the aggregated demand of these Substations may reach about 45 MVA during commissioning of Chapra 132 kV GIS i.e. during the year 2022-23. Incidentally, the load may be on 33 kV Bus of Proposed Chapra 132 kV GIS.

Present installed capacity of 132/33 kV Transformer at Krishnanagar 220 kV SS is (3x50) MVA and maximum demand exceeds 83% of its installed capacity (124 MVA in July 2019). Establishment of EHV grid Substation in this region seemed essential for betterment of voltage and to cope up future load growth in this vicinity, as well as, to reduce dependency of the sub-transmission system on Krishnanagar 220 kV Substation. 132/33 kV Transformers at both Krishnanagar 220 kV SS & upcoming Chapra 132 kV GIS will operate maintaining N-1 contingency.

Establishment of EHV grid Substation at Chapra will strengthen the distribution network of WBSEDCL, which in turn cause betterment of quality of power supply in this vicinity and make the system capable to cope up future load growth. The line loss will be reduced in a good extent. With provision of adequate power supply, the socio-economic condition of the area will be improved.

Establishment of 132 kV GIS at Chapra was contemplated in the Rolling Plan of WBSETCL for the year up to 2024-25 (Target year 2022-23), which was accorded by the Board of Directors, WBSETCL in its' 69th meeting held on 12th July 2019.

To explore the feasibility site was inspected on 19/07/2018 and the Engineering Dept. of WBSETCL has confirmed the suitability of said land for construction of 132 kV GIS. Accordingly, permissive possession of 1.84 acres of land within Chapra 33/11 kV Substation has already been taken by WBSETCL from WBSEDCL on 22/05/2019 for establishment of 132 kV GIS there.

Krishnanagar - Debogram 132 kV D/C Transmission line passes within 15 Km from the proposed location of Chapra 132 kV GIS. Debogram 132 kV Substation has D/C connectivity (each) with Rejinagar 220 kV, Krishnanagar 220 kV & Katwa 132 kV Substation. D/C LILO of Krishnanagar - Debogram 132 kV line has been considered as 132 kV connectivity of proposed Chapra 132 kV GIS. In turn, Chapra 132 kV GIS will be connected with Krishnanagar 220 kV & Debogram 132 kV SS Substations.

Detail power flow study has been carried out to ascertain the improvement after implementation of the scheme over the present power scenario. According to study proposed connectivity/ configuration will be sufficient to cater projected load demand at the 33 kV Bus of Chapra 132 kV, maintaining Bus voltage under permissible limit as per grid code even in N-1 contingency.

All the Substations in this District are sufficiently loaded; loading of 132/33 kV Transformers at Krishnanagar, Debogram reaches to alarming stage (over 75% of installed capacity). Proposed Chapra 132 kV was contemplated to offload Krishnanagar.

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33 kV Substations of WBSEDCL in the vicinity are suffering from low voltage problem due to huge load concentration through long distance 33 kV line. Establishment of Chapra 132 kV GIS will cause remarkable improvement in the voltage profile at 33 kV Bus of these Substations.

Accordingly, after line route survey, estimate for transmission line & sub-station has been prepared by Engineering Department of WBSETCL based on latest cost data. Total estimated project cost comes to Rs. 9565.50 Lakh (including IDC Rs. 909.11 Lakh).

Technical & Administrative Approval Order was issued on 10/07/2020 vide memo no CE/CPD/TAA/2020-21/030 for construction of Chapra 132/33 kV GIS with 4 no 132 kV Line Bays, 2x50 MVA 132/33 kV Transformers, 33 kV Indoor system (VCB) with 9 no. 33 KV feeder bays & 2x10 MVAR 33 kV Capacitor Bank. D/C LILO of Krishnanagar – Debogram 132 kV D/C at proposed Chapra 132 kV GIS is also incorporated in that TAA order.

Present Status of all these Projects :

Project is in Pre-tender Engineering Stage and the tender will be published shortly. Letter of Award (LOA) for implementation of the scheme will be issued after obtaining investment Approval from Hon'ble Regulatory Commission.

7. **Prayer :**

Hon'ble Commission may kindly consider the above scheme and approved the same for the purpose of tariff.

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Identified By Me
Manoj Basu
ADVOCATE
MANOJ BASU
Advocate
Enrolment No.-F-247/2006
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