

POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)

Design, Supply, Installation and Commissioning of Power Transformers and Capacitor Banks with associated switchgears on turnkey basis under Capacity Enhancement of Existing Grid Substations and Transmission Lines Project. (Package-2, Lot-2)

**OCB No.: PGCB/CEEGSTL/SS/Package-2/Lot-2
IFB Ref. No.: 27.21.0000.101.07.417.21.5934, October 25, 2022**

**Addendum No.: 01
(Date:01.12.2022)**

Following revisions/changes are made in the Bid Document which will form part of the Bid Document.

Volume 1 of 3

1) SEC 3: Evaluation and Qualification Criteria, 2.7: Manufacturers: Gas Insulated Switchgear (GIS)

The text

"The bidder shall visit the existing substation site and accordingly shall propose same manufacturer with same country of make."

Shall be replaced by-

"The bidder shall visit the existing substation site and accordingly shall propose same manufacturer."

2) SEC 9: Contract Forms, Appendix 1- Terms & Procedures of Payment

The text

"Sixty Five percent (65%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made quarterly within forty-five (45) days after receipt of invoice."

Shall be replaced by-

"Sixty Five percent (65%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within forty-five (45) days after receipt of invoice."

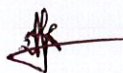
Volume 2 of 3

1) SEC 03: HV Switchgear and Outdoor Equipment, Vol.2, Page No. 3/18, Clause 3.1.12.1.8:

The text "Insulation creepage distances shall not be less than 25 mm per kV of rated voltage between phases." is replaced by "Insulation creepage distances shall not be less than **31 mm per kV** of rated voltage between phases."

Contract No.:

Addendum-1
Page 1 of 3

 *Enl* *AM*

 *J KCA*

2) SEC 04: Power Transformers, Vol.2, Page No. 4-38, Clause No. 4.7.2.1.1:

The line "Load-tap changing equipment shall provide plus and minus 10% in-phase regulation of the high voltage winding in 17 steps of approximately 5/8% each. All voltages listed on the nameplate shall reflect the actual design voltages, rounded to the nearest 10 volts." is replaced by "Load-tap changing equipment shall provide plus and minus 10% in-phase regulation of the high voltage winding in 17 steps of approximately **1.25%** each. All voltages listed on the nameplate shall reflect the actual design voltages, rounded to the nearest 10 volts."

3) SEC 04: Power Transformers, Vol.2, Page No. 4-90, Clause No. 4.19.2.8:

- A) The text "Temperature tests shall be performed on each transformer." is replaced by "Temperature tests shall be conducted on one set of 132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformer."
- B) The text "Sound level tests shall be performed on each transformer and shall be in accordance with NEMA Publication TR1 and IEC Std 60076-10." is replaced by "Sound level tests shall be conducted on one set of 132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformer and shall be in accordance with NEMA Publication TR1 and IEC Std 60076-10."

Volume 3 of 3

1) Schedule B (PRICE SCHEDULES)

- A) **Item 1B3 under Schedule B1, B2 and B4:** The requirement is revised as follows:

No.	Equipment	Quantity	Unit
1B3	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer	3	nos.

- B) **Item 2B1 under Schedule B1, B2 and B4:** The text "33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated Vacuum Circuit Breakers with spring-stored energy operating mechanism" is replaced by "33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism".

2) Schedule C, Bar Chart Program of Key Activities - Delivery & Completion Time Schedule, Pages: 28

- A) The text "Completion time for the scope of work under this project is **900 Days**. Construction Schedule exceeding **900 Days** shall be rejected." is replaced by "Completion time for the scope of work under this project is **720 Days**. Construction Schedule exceeding **720 Days** shall be rejected."

3) Schedule E, item 5.2.3.2: Circuit Breaker 33 kV (For capacitor bank), Pages: 116

- A) Specification no. 1.7: Isolating and quenching medium shall be SF6 instead of Vacuum

 *Carl* *BM*

 *JKS*

4) Schedule E: Technical Particulars and Guarantees, 5.2.4 Transformers, 5.2.4.4 132/33 kV 80/120 MVA ONAN/ONAF Power transformer

In the Guaranteed Technical Particulars (GTP) for 132/33 kV 80/120 MVA ONAN/ONAF Power transformer the following texts

On-load losses at 75°C with tap changer in nominal tap position at rated voltage and rated frequency	kW	Insert	
On-load losses at 75°C with tap changer in plus (+) extreme tap position at 110 % rated voltage, at rated frequency	kW	Insert	
On-load losses at 75°C with tap changer in minus (-) extreme tap position at 90 % rated voltage, at rated frequency	kW	Insert	
Average of the above & On-load Loss for Loss capitalization [This value will be evaluated]	kW	Insert	

are revised as given below:

On-load losses at 75°C, with tap changer in nominal tap position and at rated current of that tap position	kW	Insert	
On-load losses at 75°C, with tap changer in plus (+) extreme tap position and at rated current of that tap position	kW	Insert	
On-load losses at 75°C, with tap changer in minus (-) extreme tap position and at rated current of that tap position	kW	Insert	
Average of the above & On-load Loss for Loss capitalization [This value will be evaluated]	kW	Insert	

SK *Carl* *BM*

JKS