

POWER GRID BANGLADESH PLC
Bidding Document
For
Procurement of

**Design, Supply, Installation, Testing & Commissioning of Capacity enhancement and
Capacitor Bank Installation with associated switchgear in existing grid
substation
(Package-2, Lot-1)**

Invitation for Bids No. : 27.21.0000.101.07.417.24.4059
ICB No. : POWERGRID/CEEGSTL/SS/Package-2/Lot-1/Re-Tender

Addendum No.: 01
(Date: September 12, 2024)

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, 2.4.2: Specific Experience

a) The text

"Participation as Contractor in at least 3 (three) similar contracts with an aggregate value of USD 40.0 (forty) million or equivalent that have been successfully completed between the year 2012 and the Bid submission deadline"

Shall be replaced by –

"Participation as Contractor in at least 3 (three) similar contracts with an aggregate value of USD 40.0 (forty) million or equivalent that have been successfully completed between the year 2014 and the Bid submission deadline"

b) The text

"at least one contracts shall be in successful operation for minimum of three years in between year 2012 and the Bid submission deadline."

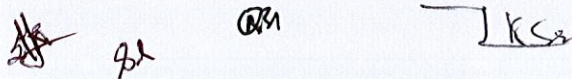
Shall be replaced by –

"at least one contract shall be in successful operation for minimum of three years in between year 2014 and the Bid submission deadline"

Volume 2 of 3

1) Clause No. 20.2: List of Bid Drawings, Vol. 2, Page No. 651

"SLD of Agargaon Grid SS", "Layout of Agargaon Grid SS" and "Layout of Kaliakoir Grid SS" are revised and attached herewith as Annexure-1, Annexure-2 and Annexure-3 respectively.



2) Clause No. 20.2: List of Bid Drawings, Vol. 2, Page No. 651

"SLD of Existing Kaliakoir Grid SS" is attached herewith as Annexure-6.

Volume 3 of 3

3) Schedule A: Scope of Works, Vol.3, Page No. 11, Clause No. 1.3.2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation, Item No. 2B: 245kV Gas Insulated Switchgear (GIS)

The text "*The existing 245kV GIS is SIEMENS, Germany make (model is 8DN9). GIS bay extension in this substation under this project shall be done with the GIS of the same manufacturer and model as per existing GIS.*" is revised as follows:

"The existing 245kV GIS is SIEMENS, Germany make (model is 8DN9). GIS bay extension in this substation under this project shall be done with the GIS of the same model as per existing GIS **and without using any adaptor or additional interface module.**"

4) Schedule A: Scope of Works, Vol.3, Page No. 11, Clause No. 1.3.2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation, Item No. 2C: 145kV Gas Insulated Switchgear (GIS)

The text "*The existing 145kV GIS is SIEMENS, Germany make (model is 8DN8). GIS bay extension in this substation under this project shall be done with the GIS of the same manufacturer and model as per existing GIS.*" is revised as follows:

"The existing 145kV GIS is SIEMENS, Germany make (model is 8DN8). GIS bay extension in this substation under this project shall be done with the GIS of the same model as per existing GIS **and without using any adaptor or additional interface module.**"

5) Schedule A: Scope of Works, Vol.3, Page No. 12, Clause No. 1.3.2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation

The sub-item no. (ix) of item No. 2C1 of 145kV GIS Auto Transformer Feeder Bay is revised as follows:

One (1) set of three phase GIS Cable compartment with isolation link.

The sub-item no. (x) of item No. 2C1 of 145kV GIS Auto Transformer Feeder Bay is revised as follows:

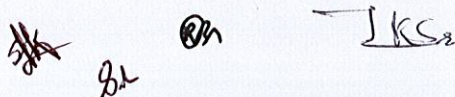
Three (3) nos. of Single phase complete GIS-to-Cable termination (including both male part/plug and female part/socket) with all accessories for TR bay.

6) Schedule A: Scope of Works, Vol.3, Page No. 21, Clause No. 1.3.4: New 132/33kV transformer at Bhasantek 132/33kV GIS Substation

The sub-item no. (vi) of item No. 4C1 of 33kV GIS power Transformer Incomer Feeder Bay is revised as follows:

One (1) set of three phase GIS Cable compartment with isolation link.

The sub-item no. (vii) of item No. 4C1 of 33kV GIS power Transformer Incomer Feeder Bay is revised as follows:

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Three (3) sets of Single phase complete GIS-to-Cable termination (including both male part/plug and female part/socket) with all accessories for TR bay (Each set shall comprise termination kit for three run cable per phase).

7) Schedule A: Scope of Works, Vol.3, Page No. 21, Clause No. 1.3.1 : Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation

Item No. 1R1 is revised as follows:

One (1) lot of Lighting (LED type) for outside building required for security, roadway, switchyard and emergency DC lighting at the region shown by cloud mark with red colour ink in the layout of Kalikoir Grid SS.

8) Schedule B: Bid Prices & Schedules, Vol.3:

A few items in "Schedule B: Bid Prices & Schedules" are revised. Accordingly, revised "Schedule B: Bid Prices & Schedules" is attached herewith as Annexure-4.

9) Schedule E: Technical Particulars and Guarantees, 5.2.4.2: 230/133/33 kV 350/450 MVA ONAN/ONAF Autotransformer, page 233, Vol.3:

- The heading "230/133/33 kV 350/450 MVA ONAN/ONAF Autotransformer" is revised as "230/132/33 kV 350/450 MVA ONAN/ONAF Autotransformer".
- Clause 3.1.1 is revised as follows:

No.	Description	Minimum Requirements		Guaranteed
		Unit	Data	
3.1.1	HV - LV, on the basis of rated power with on-load tap changer in plus (+) extreme tap position	%	12.60 $\pm$ 5 %	
	HV - LV, on the basis of rated power with on-load tap changer in middle position	%	13.00 $\pm$ 5 %	
	HV - LV, on the basis of rated power with on-load tap changer in minus (-) extreme tap position	%	13.60 $\pm$ 5 %	

- Clause 3.2.1 is revised as follows:

No.	Description	Minimum Requirements		Guaranteed
		Unit	Data	
3.2.1	HV - LV, on the basis of rated power with on-load tap changer in middle position	%	12.70 $\pm$ 10 %	

10) Schedule E: Technical Particulars and Guarantees, 5.2.4.3: 230/138/34.5 kV 225/300 MVA ONAN/ONAF Autotransformer, page 270, Vol.3:

Clause 3.1.1 is revised as follows:

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No.	Description	Minimum Requirements		Guaranteed
		Unit	Data	
3.1.1	HV - LV, on the basis of rated power with on-load tap changer in plus (+) extreme tap position	%	13.91 $\pm$ 5 %	
	HV - LV, on the basis of rated power with on-load tap changer in middle position	%	13.80 $\pm$ 5 %	
	HV - LV, on the basis of rated power with on-load tap changer in minus (-) extreme tap position	%	14.25 $\pm$ 5 %	

11) Schedule E: Technical Particulars and Guarantees, 5.2.4.4: 132/33 kV 80/120 MVA ONAN/ONAF Power transformer, page 270, Vol.3:

Clause 3.2, 3.2.1, 3.2.2 and 3.2.3 are revised as follows:

No.	Description	Minimum Requirements		Guaranteed
		Unit	Data	
3.2	Temperature rise limits, at rated power, with complete cooling system in service and at lowest voltage tap			
3.2.1	Average Oil Temperature rise	°C		
3.2.2	Top oil	°C	$\leq$ 50	
3.2.3	Average Winding Temperature rise	°C	$\leq$ 55	
	Hottest spot	°C	$\leq$ 65	

12) Schedule E: Technical Particulars and Guarantees, Vol.3:

Technical Particulars and Guarantees of 132/33 kV 80/120 MVA ONAN/ONAF Power transformer for Bhasantek 132/33kV Substation is added as "Annexure-5".

13) Schedule E: Technical Particulars and Guarantees, 5.2.3.2: Current Transformer 33 kV (For 120MVA Tr. Bay), page 181, Vol.3:

Clause 1.5 is revised as follows:

Sl no.	Particulars	Unit	PGCB's Requirement	Bidder's Guaranteed
1.5	Country of Origin		Insert	

14) Schedule E: Technical Particulars and Guarantees, 5.2.3.4: Current Transformer 33kV (For Capacitor Bank), page 188, Vol.3:

Clause 1.5 is revised as follows:

Sl no.	Particulars	Unit	PGCB's Requirement	Bidder's Guaranteed
1.5	Country of Origin		Insert	

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15) Schedule E: Technical Particulars and Guarantees, 5.2.3.5: Current Transformer 33kV (For Earthing Transformer), page 192, Vol.3:

Clause 1.5 is revised as follows:

Sl no.	Particulars	Unit	PGCB's Requirement	Bidder's Guaranteed
1.5	Country of Origin		Insert	

Sub ~~*SS*~~ *BM* *JKS*