

# POWER GRID BANGLADESH PLC

## Bidding Document

For

## Procurement of

**Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV  
AIS Substation at Pekua and associated single/double circuit  
400kV/230kV/132 kV LILO Lines on turnkey basis (Package-1)  
(OCB No. PGCB/ADB/400kV/PEKUA/PTSIREP/PACKAGE-1)**

### Addendum No. 01

(Date: August 04, 2024)

Following revisions/changes are made in the Bidding Document which will form part of the Bidding Document:

### Volume 1 of 3

1. Volume 1, Section 9: Contract Forms- Appendix 2 - Price Adjustment (For transmission related works):

The following text shall be appended:

**(3) Towers and Poles (including Bolts and Nuts) for transmission related works**

The formula for calculating the price adjustment to be applied to the contract price component of fabricated towers (including bolts & nuts) is as follows:-

$$P_1 = P_0 \times \left( a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} + d \frac{N_1}{N_0} \right) - P_0$$

Where,

- $P_1$  = Price adjustment amount of fabricated towers & tower parts and poles including bolts and nuts (if the figure is negative, this amount has to be recovered by the Employer from the Contractor)
- $P_0$  = Ex-works/CIP price component (base price) of fabricated towers, tower parts and poles & hardware fittings (including bolts & nuts), less advance
- $a$  = percentage of fixed elements in the contract price ( $a = 10\%$ )
- $b$  = percentage of labour components in the contract price ( $b = 12\%$ )





- c= percentage of material (steel) components in the contract price  
(c = 61%)
- d= percentage of materials (zinc) components in the contract price  
(d =17%)
- L<sub>0</sub>, L<sub>1</sub> = labour indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively
- M<sub>0</sub>, M<sub>1</sub> = Material (steel) indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively.
- N<sub>0</sub>, N<sub>1</sub> = Material (Zinc) indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively.

Conditions Applicable to Price Adjustment Steel Towers & Poles (including Bolts and Nuts)

Item	Country of Origin; Currency of index	Source of Indices Used Title / Definition	Base Date Indices Value Date
L (Labour)			
M (Steel)			
N (Zinc)			

All other terms and conditions of the bidding document shall remain unaltered.

**2. Volume 1, Section 2- Bid Data Sheet - ITB 11.2(k):**

11.2(k), Section-2, BDS has been omitted from the Bid Document and so, it shall have no effect.

**3. Volume 1 of 3, Section 4- Schedule 4D: Installation and Other Services**

In Schedule 4D - Installation & other services, Item Nos. 1K is revised.

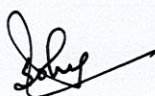
The revised Price Schedule is attached as **Attachment 1**.





**Attachment 1**

1K	Civil Works, Building and Foundation		
1K.1	Complete land development and slope protection		
i)*	_Complete land development with carried/dredged earth filling including approach road	cum	804473
ii)	_Slope protection		
a.	_Slope (1V:2H) protection with CC block and gravity retaining wall	lot	1
1K.2	Complete civil items required for outdoor works		
i)	_Outdoor gantry foundation in 400kV switchyard		
a.	_Gantry column	lot	1
ii)*	_Outdoor equipment foundation in 400kV switchyard		
a.	_CB	set**	10
b.	_DS without ES	set**	25
c.	_DS with ES	set**	4
d.	_Bus ES	Deleted	
e.	_CT	nos.	33
f.	_CVT/IVT	nos.	33
g.	_LA	nos.	27
h.	_Wave Trap	Deleted	
i.	_PI	Deleted	
iii)	_Outdoor gantry foundation in 132kV switchyard		
a.	_Gantry column	lot	1
iv)*	_Outdoor equipment foundation in 132kV switchyard		
a.	_CT	set**	7
b.	_DS without E/S	set**	16
c.	_DS with E/S	set**	4



1K	Civil Works, Building and Foundation		
d.	_CT	nos.	24
e.	_CVT	nos.	24
f.	_LA/SA	nos.	18
v)	_Outdoor gantry foundation in 230kV switchyard		
a.	Gantry column	lot	1
vi)*	_Outdoor equipment foundation in 230kV switchyard		
a.	_CB	set**	10
b.	_DS without E/S	set**	25
c.	_DS with E/S	set**	4
d.	_CT	nos.	33
e.	_CVT	nos.	33
f.	_LA/SA	nos.	27
vii)*	_Outdoor equipment foundation in 33kV switchyard		
a.	_CB	set**	2
b.	_DS	set**	4
c.	_IVT	nos.	6
d.	_LA/SA	nos.	6
viii)	_Outdoor gantry/tubular bus bar foundation in 33kV switchyard	lot	1
ix)*	_Transformer pad with foundation including oil pit		
a.	_520MVA transformer	nos.	3
b.	_300MVA transformer	nos.	2
x)*	_Blast wall with foundation	nos.	5
xi)*	_Boundary wall for overall plan		
a.	_Boundary wall with RCC retaining wall	m	1000
b.	_Boundary wall without retaining wall	m	425
xii)*	_Substation main gate	nos.	1
xiii)*	_Chain link fencing	m	500
xiv)*	_Approach road (pavement width 6m)	m	20



1K	Civil Works, Building and Foundation		
xv)*	_ Internal road		
a.	_ 6m wide road	m	1000
b.	_ 4.5m wide road	m	500
c.	_ 3m wide road	m	300
d.	_ 1.5 walk way	m	10
xvi)*	_ Surface drain	m	1350
xvii)	_ Cable trench/tunnel with soak pit	lot	1
xviii)	_ Whole substation surface finishing with drainage system including outlet (excluding surface drain)	lot	1
xix)	_ Gravel laying in switchyard area	lot	1
xx)*	_ Septic tank cum soak well	nos.	3
xxi)	_ Pump shed including deep tube well, motor, pump, water reservoir, water pipe line, electrical connection <i>etc.</i>	lot	1
xxii)*	_ Guard house	nos.	1
xxiii)*	_ Sentry post	nos.	3
xxiv)*	_ Car port	nos.	1
xxv)*	_ Ansar barrack	nos.	1
xxvi)	_ Water Treatment Plant	lot	1
1K.3	Complete civil works for Control Room & Switchyard Panel Room building		
i)	_ Complete civil works for one control room building		
a)	_ Foundation works	lot	1
b)	_ Super structures	lot	1
c)	_ All finish works like rendering, painting, water supply, sanitary, floor finish, furniture, <i>etc.</i>	lot	1
ii)	_ Complete civil works for one 400kV switchyard panel room building		
a)	_ Foundation works	lot	1



1K	Civil Works, Building and Foundation		
b)	_Super structures	lot	1
c)	_All finish works like rendering, painting, water supply, sanitary, floor finish, furniture, <i>etc.</i>	lot	1
iii)	Complete civil works for one 132kV switchyard panel room building		
a)	_Foundation works	lot	1
b)	_Super structures	lot	1
c)	_All finish works like rendering, painting, water supply, sanitary, floor finish, furniture, <i>etc.</i>	lot	1
1K.4*	Testing of Foundation		
i)	_Compression test of pile	nos.	5
ii)	_Uplift test of pile	nos.	3
1K.5	Complete firefighting system for transformers including water pond/reservoir, pipe network and pump	lot	1
	* actual payment shall be as per actual work at site		
	** one set includes foundation for three phases of a circuit		

#### 4. Section 4: Bidding Forms, Schedules of Rates and Prices

- a. Schedule 1D: page 1D1, 1D2, 1D3, 1D4, 1D5, 1D6 are replaced by revised page 1D1 (rev-1), 1D2 (rev-1), 1D3 (rev-1), 1D4 (rev-1), 1D5 (rev-1), 1D6 (rev-1) and attached as **Attachment 2**.
- b. Schedule 1D: page 1D7 shall be "Not applicable".
- c. Schedule 2D: page 2D1, 2D2, 2D3, 2D4, 2D5, 2D6 are replaced by revised page 2D1 (rev-1), 2D2 (rev-1), 2D3 (rev-1), 2D4 (rev-1), 2D5 (rev-1), 2D6 (rev-1) and attached as **Attachment 3**.
- d. Schedule 2D: page 2D7 shall be "Not applicable"
- e. Schedule 4D: page 4D1, 4D2, 4D3, 4D4, 4D5 are replaced by revised page 4D1 (rev-1), 4D2 (rev-1), 4D3 (rev-1), 4D4 (rev-1), 4D5 (rev-1), 4D6 and attached as **Attachment 4**.



**5. Volume 1, Section IV: Bidding Forms**

Price Schedule of Scope A: LILO of Existing Matarbari PP-Banskhali PP double circuit 400kV line at Matarbari 400/230/132kV SS (Pekua)  
Price Schedule from page 4-11 to 4-28 is replaced by enclosed revised page 4-11(Rev-1) to 4-28 (Rev-1) and attached as **Attachment 5**.

**Volume 2 of 3 (Substation)**

**6. Section 4: Power Transformer**

The words “390 MVA” and “390/400 MVA” are revised by the words “400 MVA” and “400/520 MVA” respectively.

**7. Section 5: SUBSTATION AUTOMATION SYSTEM Protection, Metering and Control**

Section is revised and attached as **Attachment 6**.

**8. Section 14:**

Section is revised and attached as **Attachment 7**.

**9. Section 16: WORKS AND EQUIPMENT FOR SHUNT REACTOR INSTALLATION:**

The entire section has been deleted.

**10. Section 18: Drawings:**

- a. Drawing list Page 18/1 is replaced by revised page Page 18/1 (rev.1) and attached as Attachment 6.
- b. Electrical & Civil revised and new drawings are attached as **Attachment 8**.

**Volume 2 of 3 (Transmission Line)**

**11. Section 6 Survey, Profile, Geotechnical Investigations and Field Quality Plan:**

Page no -6-25- is replaced by page no -6-25- rev1 and is enclosed herewith as **Attachment -9**.

**12. Section 7 Foundations:**



Page no -7-5- is replaced by page no -7-5- rev1 and is enclosed herewith as **Attachment - 9.**

**13. Section 11 Conductors:**

Page nos -11-1-, -11-12-, -11-13- & -11-33-are replaced by page nos -11-1- rev1, -11-12- rev1, -11-13- rev1 & -11-33- rev1 respectively and are enclosed herewith as **Attachment - 9.**

**Volume 3 of 3 (Substation)**

**14. Schedule A:**

Schedule A replaced by revised Schedule A (Rev.1) and attached as **Attachment 10.**

**15. Schedule E:**

Schedule E replaced by revised Schedule A (Rev.1) and attached as **Attachment 11.**

All other terms and conditions of the Bidding Document shall remain unaltered.

The above addendum will form part of the Bidding Documents.

Encl.: As stated.

