

**Bidding Document
For
Procurement of
Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV
Transmission Lines for Southern Area of Chattogram Division & Bangabandhu
Hi-Tech City at Kaliakoir on Turnkey Basis (Package-2)
[IOCT No. PGCB/AIIB/000308-BGD/TL/Package-2]
Under
Southern Chattogram and Kaliakoir Transmission Infrastructure Development
Project.**

Addendum 01

Volume 1 of 3

1. Clause 26.2, Section: 8, Special Conditions of Contract

The text-

“Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof.”

shall be replaced by-

“Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof per week.”

2. Clause 27, Defect Liability Period, SCC

The first paragraph of Sub-Clause 27.2 is replaced by the following:

The Defect Liability Period shall be twelve (12) months from the date of Operational Acceptance of facilities for all equipment/materials.

27.10 Not applicable.

3. Appendix-2, Price Adjustment, Section-9, Contract Forms

The text-

“Po = Ex-works/CIP price component (base price) of fabricated towers, tower parts and poles & hardware fittings (including bolts & nuts), less advance”

shall be replaced by-

“Po = Ex-works/CIP price component (base price) of fabricated towers, tower parts and poles (including bolts & nuts), less advance”

4. Contract Agreement: Article:1.1, Section-9, Contract Forms

The text-

(d) Minutes of Pre-Contract Meeting(s)

(e) Vetting from relevant departments (if required)" shall be deleted.

5. Appendix 1 - Terms and Procedures of Payment, Section-9, Contract Forms

The text-

"For foreign currency payments, the interest rate is LIBOR";

shall be replaced by-

"For foreign currency payments, the interest rate is SOFR plus 0.5%."

6. Clause (iii) f, Appendix 2, Section-9, Contract Forms

The text-

"If No data is entered for one item in the above table, the price adjustment does not apply to the item."

shall be deleted.

7. Clause 2.2.3 Pending Litigation, Section-3, Evaluation and Qualification Criteria

The text-

"Tenderer's financial position and prospective long-term profitability still sound according to criteria established in 2.3.3 below and assuming that all pending litigation will be resolved against the Tenderer."

shall be replaced by-

"Tenderer's financial position and prospective long-term profitability still sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Tenderer."

8. Appendix 2, iii (g), Section - 9, Contract Forms

The Text-

"Any Payment resulting from price adjustment will be settled at the end of contract."

shall be replaced by-



"Any Payment resulting from price adjustment will be settled yearly starting from the contract effective date."

9. Clause 19.6, Section: 8, Special Conditions of Contract

The text-

"The contractor shall not subcontract more than 50% of the facilities."

shall be replaced by-

"The contractor shall not subcontract more than 50% of the works (Schedule No. 4)."

10. Clause 45.5(b), Section: 8, Special Conditions of Contract

The text-

"-The place of arbitration shall be held in a neutral third country and Rules of procedure for arbitration proceedings shall be as per provisions of International Chamber of Commerce."

shall be replaced by-

"-The place of arbitration shall be Singapore and Rules of procedure for arbitration proceedings shall be as per provisions of International Chamber of Commerce."

11. Clause 10.2, Section: 8, Special Conditions of Contract, Page 8-6

The above mentioned clause is updated as follows-

"Clause GCC 10.2 shall be replaced by the following:

The Employer shall give administrative support to accord all rights of access for transmission line thereto on or before the date(s) specified in that appendix at the cost of the Contractor. Such cost is deemed to be included in the contract price. The Contractor shall be responsible for acquiring and providing legal and physical possession of the transmission line sites and access thereto, and for acquiring possession of and access to all other areas reasonably required for the proper execution of the contract, including all requisite rights of way as specified in the appendix (scope of works and supply by the employer) to the contract agreement.

The employer through its Environmental and Social Unit and Social Safeguard Consultant(s) shall be responsible for overall implementation of the resettlement plan (RP) and other corresponding social management plans (Labor Management Plan, Stakeholder Engagement Plan, and Gender-based Prevention Plan) in a timely manner, and shall collaborate closely with the contractor to implement the RP and corresponding plans."

12. Clause 10.3, Section: 8, Special Conditions of Contract, Page 8-6

The above mentioned clause is updated as follows-

“Clause GCC 10.3 shall be replaced by the following:

The Employer shall give administrative support to accord permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the Site is located. The Contractor shall acquire and pay for all permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the site is located which

- (a) such authorities or undertakings require to obtain in the Employer's name,
- (b) are necessary for execution of the contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the contract, and
- (c) are specified in the appendix (scope of works and supply by the employer) to the contract agreement.

The cost of acquiring such permits, approvals and/or licenses are deemed to be included in the contract price.

Subject to Sub-Clause 10.7, any additional field data and drawing required for permits, approvals, and/or licenses from all local, state, or national government authorities, or public service undertakings, which are not required to be supplied by the Employer in the Appendix (Scope of Works and Supply by the Employer), shall be provided by the Contractor.”

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13. Section 5 Access, 5.6 Damage, 5.6.1 General, page- 5-5 & 5-6

The following text shall be deleted from the above mentioned clause-

“The contractor shall pay compensation to the owners/tenants for damages of crops, trees and houses during the project implementation within the way leaves (right of way) which are unavoidable for construction of the transmission line.”



14. Section 6 Survey, Profile, Geotechnical Investigations and Field Quality Plan, 6.2.8 Tower Spotting, page- 6-6-

The para

“The Contractor shall submit to the Engineer the requisite copies of route maps, they shall also submit requisite copies of the profile drawings upon which shall be indicated the proposed location and type of each tower, spans, section lengths, (i.e.) distances between tension towers), equivalent spans, wind and weight span, difference in level between phase conductor attachment points and the sag templates used. This a Hold Point. Also on the profile shall be plotted the relevant position of the bottom or lowest phase conductor at the specified maximum conductor temperature and another line parallel to the phase conductor line and at the minimum statutory ground clearance specified below it.”

is replaced with

“The Contractor shall submit to the Engineer the requisite copies of route maps and mouza maps, they shall also submit requisite copies of the profile drawings upon which shall be indicated the proposed location and type of each tower, spans, section lengths, (i.e.) distances between tension towers), equivalent spans, wind and weight span, difference in level between phase conductor attachment points and the sag templates used. This a Hold Point. Also on the profile shall be plotted the relevant position of the bottom or lowest phase conductor at the specified maximum conductor temperature and another line parallel to the phase conductor line and at the minimum statutory ground clearance specified below it.”

15. Section 8 Towers, Annex 8-13: Foundation Reaction Forces [Annex 8.13(3.2): 230kV Double Circuit Towers – High Wind Zone], page- 8-50-

Foundation reaction forces for Tower Type 2DR, Tower Type 2DR M20 and Tower Type 2DAX as enclosed are added. (Attachment-1)

16. Section 9 Insulators, Annex 9-2: Electrical & Mechanical Characteristics [3. 230 kV Line (Overland Portion)], Page- 9-16 & 9-17-

Page- 9-16 & 9-17- is replaced by the enclosed Attachment-2

17. Section 8 Towers, Annex 8-13: Foundation Reaction Forces, Page- 8-50-

Foundation load for Tower Type 2T as enclosed are added at Annex 8-13: Foundation Reaction Forces. (Attachment-3).



18. Section 22 Tender Drawings

The following drawings as enclosed are added at Section 22 Tender Drawings (**Attachment-4**). These drawings are already approved and to be considered part of this Tendering document.

Item	Drawing Number	Title
	Tower Type 2T	
1	C-1022/PGCBL/230KV/2T	Detailed Line Diagram for Terminal Tower Type '2T'
2	PGCB/HGPT/2T/STUB/DS/01	Detailed drawing of Stub & Cleat for Tower Type "2T"
3	HGPT/PGCB/KfW-1.2/2T/SD/0M	Structural Drawing for Tower Type 2T+0M Bottom Part-I
4	HGPT/PGCB/KfW-1.2/2T/SD/0M	Structural Drawing for Tower Type 2T+0M Bottom Part-II
5	HGPT/PGCB/KfW-1.2/2T/SD/0M	Structural Drawing for Tower Type 2T+0M Top Part-I
6	HGPT/PGCB/KfW-1.2/2T/SD/0M	Structural Drawing for Tower Type 2T+0M Top Part-II
7	HGPT/PGCB/KfW-1.2/2T/SD/3M	Structural Drawing for Tower Type 2T+3.0M Body Extn.

19. Section 11 Conductors, 11.7.6 Acceptance Tests, page- 11-13-

Clause "11.7.6 Acceptance Tests" is replaced with the following-

"11.7.6 Acceptance Tests

a) ACCC Conductor		
i)	Visual and dimensional check on drum	: As per Annex 11.4
ii)	Visual check for joints scratches etc. and length measurement of conductor by rewinding	: As per Annex 11.4
iii)	Dimensional check on core/core strands and Aluminium or Aluminium Alloy strands	: As per Annex 11.4
iv)	Check for lay-ratios of various layers	: As per Annex 11.4

v)	Breaking load test on core/core strands and aluminium/Aluminium alloy strands	: As per Annex 11.4
vi)	Minimum conductivity test on Aluminium/thermal resistant Aluminium Alloy strands	: As per IEC 60889
vii)	Procedure qualification test on welded joint of Aluminium/ Aluminium Alloy strands	: As per Annex 11.4
viii)	Heat resistant test on Aluminium Alloy strands	: As per Annex 11.4
ix)	Glass transition temperature test for composite core	: As per Annex 11.4
x)	Galvanic layer thickness test for composite core	: As per Annex 11.4
xi)	DC resistance test on aluminium/Aluminium alloy strands	: As per Annex 11.4
xii)	Bending test on composite core	: As per Annex 11.4
xiii)	Torsional Ductility Test	: As per Annex 11.4
xiv)	Flexural Strength Test (for polymer composite core only)	: As per Annex 11.4
All the tests to be performed on composite core (5% reels of each lot/shipment) shall be carried out in as manufactured conditions before dispatch of composite core. All costs of such tests shall deem to be included in the contract price.		
b) ACSR Conductor		
i)	Visual and dimensional check on drum	: As per Annex 11.4a
ii)	Visual check for joints scratches etc. and length measurement of conductor by rewinding	: As per Annex 11.4a
iii)	Dimensional check on steel and aluminium/ Aluminium alloy strands	: As per Annex 11.4a
iv)	Check for lay-ratios of various layers	: As per Annex 11.4a
v)	Galvanic layer thickness test for steel strands	: As per Annex 11.4a
vi)	Torsion and Elongation tests on steel strands	: As per Annex 11.4a
vi)	Breaking load test on steel and aluminium/Aluminium alloy strands	: As per Annex 11.4a
vi)	Wrap test on steel and aluminium/Aluminium alloy strands	: IEC 60888 and IEC 60889
vii)	DC resistance test on aluminium/Aluminium alloy strands	: IEC 60889
viii)	Procedure qualification test on welded joint of Aluminium/ Aluminium Alloy strands	: As per Annex 11.4a
ix)	Barrel batten strength test	: As per Annex 11.4a

x)	Drop point of grease	ASTM D 566
xi)	Verification of conductor length	The Employer reserves the right to verify the length of conductor after unreeling at least Five percent (5%) to ten percent (10%) of the drums in a lot offered for inspection. The actual quantity will be discussed and mutually agreed to by the Supplier & Employer in the Quality Assurance Programme.

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20. Price Schedule

Clarification answers have been given based on the schedule and item number of the previous price schedule.

Price Schedule is revised and attached with the Addendum as **Attachment-5.** Schedule numbers of the Price Schedule are also updated. For future references, the updated numbers shall be used.

