

POWER GRID COMPANY OF BANGLADESH LIMITED

Southern Chattogram and Kaliakoir Transmission Infrastructure Development Project

**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)**

CLARIFICATION NO.2

Sl. No.	Reference and Queries of Prospective Bidders	PGCB's Reply/Clarification	Addendum (Yes-Y/No-N)
Volume - 1 of 3			
1.	<u>Price Adjustment for ACSR Grosbeak (equivalent ACCC)</u> As per Appendix 2 (Price Adjustment), price variation is applicable for ACSR Conductor. We understand that price variation is applicable for ACSR Mallard, ACSR Grosbeak and ACSR Grosbeak (equivalent ACCC) conductors. Kindly confirm that our understanding is correct.	As mentioned in the bidding document, price adjustment shall be applicable for ACSR conductor but not for ACCC conductor, since the quantity is very negligible, i.e. 1.55 km.	N



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2.	Please confirm that the Employer/PGCB will depute a consultant to supervise the work. If yes, who will bear the daily charges of supervision and what is the daily charges?	As per DPP, there is a provision for RP implementation consultant, External Monitoring (Environmental) consultant and External Monitoring (Social) consultant and relevant costs of these consultancy packages shall be borne by PGCB.	N
3.	<u>Section-9, Contract Forms, Appendix 1, Pg 9-10 to Pg 9-12.</u> Schedule No.1: Plant and Mandatory Spare Parts Supplied from Abroad: Ten percent (10%) of the total CIP amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favour of the Employer. Schedule No.3: Design Services: Ten percent (10%) of the total design services amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favour of the Employer. Schedule No.4: Installation and Other Services: Ten percent (10%) of the total installation and other services amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favour of the Employer. Kindly confirm that the Advance Payment is Interest free.	Advance payment is interest free.	N
4.	<u>Section-2, Tender Data Sheet, ITT 11.3 (d), Pg 2-3</u> The Tenderer shall submit with its Price Tender the following additional documents: Cash flow statement for project implementation In tender documents, there is no specific format available for Cash flow statement. We understand that the same should be submitted as per Standard Practice.	Your understanding is correct.	N

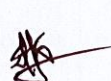


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5.	<u>Section-9, Contract Forms. Appendix 2, Pg 9-14</u> The formula available for Conductor (ACSR), Earthwire & OPGW: The available formula works on Conductor, but with respect to Aluminium Percentage formula does not work for Earthwire & OPGW. Therefore, we request you to amend/ change the formula of Price Variation for Earthwire & OPGW.	It shall be as per bidding document.	N
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6.	<u>Vol 2 of 3, Section 8A, Poles</u> Many Monopole manufacturers are asking confirmation for following Galvanizing method because of Galvanizing Bath restriction. "In case of restriction due to the size of hot dip galvanizing bath, in case of pole base plate having outer diameter more than 1490mm, the bottom section and base plate will be galvanizing separately before welding. After that seamless welding of both the bottom section and base plate will be done, surface of the welded portion shall be cleansed and prepared. Two welded portion shall be processed suitably by metallizing using molten zinc technique for metallizing, the process as per ANSI / AWS WCZ / D19.0-72 OR other." Kindly confirm.	Your proposal is not accepted. Please follow the volume 2 (8A.2.17.3.2 Welding, 8A.2.17.4 Corrosion Protection) of the bidding document.	N




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7.	<u>Annexure 23 (No. of Towers)</u> As per Data Table of Proposed Anwara – Cox's Bazar (N) Transmission Line, The available Angle Point "AP43-AP44 to AP45/C-AP45/D" and the same Angle Point available in the KMZ file indicating in Green colour are falls in the Dense Forest Area. Kindly confirm which colour lines will be considered in the execution stage as per KMZ line and define forest scope & forest line approach.	Please follow the green colour line in the KMZ file. The Angle Point from "AP43-AP44 to AP45/C-AP45/D" of the tender route pass through the forest area. PGCB will provide administrative support as per contract for the approach in the forest.	N
8.	<u>Scope of Works, Annex 1-1: Scope and Extent of Definite Works, Cl.2, c, Pg 2-7.</u> PGCB's existing designed towers/Pole shall be used. The Employer shall provide structural/erection drawings, available shop drawings and available bill of materials of all types of transmission line towers/Pole and their extensions as required to the Contractor after placement of award, in sequence, suiting the project requirement upon written request of the Contractor. However, if the Contractor needs to prepare any additional structural and shop drawings or make any correction of existing drawings, these have to be prepared by the Contractor without any additional cost. In such case, the Contractor has to submit relevant documents/drawings for approval of the Employer. Kindly note that, as per the above clause and available drawings in tender specification. We have considered that we need to design foundation drawings which are not available in specification and the list of available Approved Foundation Drawing is enclosed here as ANNEXURE-1 and List of Foundation Design to be done by bidder is enclosed here as ANNEXURE-2. Kindly confirm.	The tower foundation drawings that are provided in the bid document, need not to be redesigned. In this case, pile schedule to be submitted by the contractor depending on the soil test report of the tower location. The bidder has to perform new foundation design of the tower whose foundation drawings are not given in the bid document.	N

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9.	Kindly provide the line wise Maximum Wind Speed / Wind Zone / Maximum & Minimum Wind Velocity.	132 kV Tower designed for medium wind zone-45m/s (10 minutes mean wind speed) & 230 kV Tower designed for High wind zone-56 m/s (10 minutes mean wind speed) . Span & design criteria mentioned in Annex 8-5: Span Criteria & Annex 8-1: Design Parameters and Conductor System Loading will be adjusted considering the wind zone during the execution time as per actual site condition.	N
Volume - 3 of 3			
10.	<u>Regarding Currency for Civil & Installation Portion</u> As per BDS CI 19.1, it is stated that the prices can be quoted either in the currency of the Tenderer's home country or in any fully convertible currency of upto three foreign currencies. Therefore, we understand that the bidder can quote all the prices of Installation and other services (Sch 1.4, 2.4,3.4 & 4.4) in foreign currency. Kindly confirm	Your understanding is correct.	N




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11.	<u>Expenses related to Test Witness</u> For Sch. 1.4 & 3.4 unit price & total amount has been mentioned for against Item No 7.11 for Anowara Cox's Bazar & Cox Bazar Teknaf lines, however, there is no mention in Schedule 2.4 & 4.4 against the said Item for other two lines. Kindly clarify the applicability, since, inspection requirements shall be there in 230 kV Hightech City as well as 132 kV LILO. 132 kV LILO is having a different set of hardware & conductor requirement. Further, it is not clear whether the mentioned amounts in 1.4 & 3.4 in this head are firm or contractor shall quote their own.	Provisional sum has been kept for the longer line sections. The bidders are therefore not required to quote prices against item no. 7.11 in Schedule 2.4 and 4.4.	N
12.	5.Price Schedule for B Bangabandhu Hi-Tech City-Kaliakoir 230 kV double circuit transmission line: 4.88 km (using Twin ACSR Mallard conductor) a) Dismantling of existing line section (including tower, conductor, insulator and other accessories) whichever is required for line in/out, storing the dismantled materials at PGCB store (anywhere in Bangladesh) The dismantling shall be done at which portion of the line? How many towers are going to be dismantled. Type of conductor to be dismantled. Location of store to be confirmed by PGCB, transportation cost to be incorporated accordingly. Whether, the foundation needs to be dismantled? Whether, we can cut the conductor & towers or it is required to be returned in usable condition.	This item is not required and already deleted from price schedule of addendum-1 (Clause-20, Attachment-5)	N
	b) By passing the required line section with Tower/Pole/ERS. Tower/Pole/ERS for by passing shall be collected from PGCB store (anywhere in Bangladesh) Bypassing arrangement to be finalised, with ERS permanent foundation shall not be required. For tower & Pole it will be required. Location of store to be confirmed by PGCB, transportation cost to be incorporated accordingly.	This item is not required and already deleted from price schedule of addendum-1 (Clause-20, Attachment-5)	N

Sl. No.	Reference and Queries of Prospective Bidders	PGCB's Reply/Clarification	Addendum (Yes-Y/No-N)
	c) Dismantling of by pass line after completing line in line out and storing the Tower/Pole/ERS of by pass line as PGCB store (anywhere in Bangladesh) Whether, the foundation needs to be dismantled? Whether, we can cut the conductor & towers or it is required to be returned in usable condition. Location of store to be confirmed by PGCB, transportation cost to be incorporated accordingly.	This item is not required and already deleted from price schedule of addendum-1 (Clause-20, Attachment-5)	N
13.	<u>Price Schedule, Schedule No.1.4, 2.4, 3.4 & 4.4</u> Sl. 7.11 Costs and Expenses related to test witness³(Provisional Sum) The cost for above particulars are already provided by you in Schedule No.1.4 & Schedule No.3.4, but for the same particulars cost are not provided in Schedule No.2.4 & Schedule No.4.4. Kindly furnish the same for Schedule No.2.4 & Schedule No.4.4.	This point has been clarified in the clarification-1, Sl. No. 122 and clarification No.2, Sl. No. 11.	N
14.	<u>Price Schedule, Schedule No.1.4, 2.4, 3.4 & 4.4</u> Sl. 7.12 Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint] Sl. 7.13 Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends) The cost for above are particulars/compensation provided by you in Lump sum in Schedule No.1.4, Schedule No.2.4, Schedule No.3.4 & Schedule No.4.4. Kindly confirm these costs are fixed / ceiling and will be included in total price for evaluation only. The payment related to Right of Way / Compensation etc. shall be paid at actual upon submission of relevant documents.	Your understanding is correct. Also, please refer to the Clarification-1, Sl. No.-12.	N




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15.	<u>Price Schedule, Schedule No.1.1, 2.1, 3.1</u> In section of 'Galvanized Tower Steel' Tonnage quantity available for Fabricated and Non-Fabricated. Kindly confirm, the purpose and difference between Fabricated and Non-Fabricated Steel. Also note that in Installation schedule only Fabricated Galvanized tower Steel is available, but Non-Fabricated Steel is not available.	Fabricated and Non-Fabricated Galvanized Tower Steel will be used for design modification (if needed) & future maintenance purpose respectively. Fabricated steel means angle & plate with all hole, notch etc as per drawing & Non-Fabricated steel means only galvanized angle & plate. Non-Fabricated Steel will be used for future maintenance purposes. That's why this item is not available in the Installation schedule.	N
16.	<u>Price Schedule, Schedule No.1.1 & 1.2, SI.5.1.3 & 5.2.3</u> In SI.5.1.3 & 5.2.3, Vibration damper for earthwire are available per span 333 Nos. Please note that, in Schedule No.1.1 & 1.2, there is no scope for supply of Earthwire. While quantity of Vibration Damper for Earthwire is available in Price Schedule. Kindly confirm.	Your understanding is correct, steel earth wire will not be used in this line, rather, two nos. equivalent OPGW will be used. Hence, Vibration damper for earth wire is not required and already deleted from price schedule of addendum-1 (Clause-20, Attachment-5).	N

