

Memo No: 27.29.0000.012.07.012.21-375

Date: 21/03/2021

Sub: Minutes of the Pre-Tender Meeting and 1st Amendment of Tender Document on Ref. No. 27.29.0000.012.07.012.21-250 Issued on 09.02.2021 for Procurement of “Design, Supply, Erection, Installation, Testing and Commissioning of Upgradation of Horogram and Airport, 33/11 KV Substation on Turnkey Basis under Rajshahi Division Power Distribution Project (ICT)”.

A Pre-Tender Meeting was held on 21-03-2021 on Ref. No. 27.29.0000.012.07.012.21-250 issued on 09.02.2021 for Procurement of “Design, Supply, Erection, Installation, Testing and Commissioning of Upgradation of Horogram and Airport, 33/11 KV Substation on Turnkey Basis under Rajshahi Division Power Distribution Project (ICT)”. The following Explanation/Amendment has been made on the basis of Pre-Tender Meeting discussion in the presence of prospective tenderers.

SL No	Clause No & Name	Queries/Written as	Explanation/Amendment
01	ITT 5.13	Tenderers shall have the following up-to-date valid License: ABC Category Electrical Supervisory License from Bangladesh Electrical Licensing Board & Trade/Business License.	Tenderers shall have the following up-to-date valid License: ABC Category Electrical Supervisory License & Trade/Business License.
02	ITT 14.1 (a) General Experience	The Tenderer shall have a minimum of seven (07) years of overall experience in the business of Supply, Installation, Erection, Testing, Commissioning of electrical substation in govt./semi govt./autonomous electricity utilities in Bangladesh in the role of contractor or management contractor (years counting backward from the date of IFT).	The Tenderer shall have a minimum of Five (05) years of overall experience in the business of supply, Installation, Erection, Testing, Commissioning of electrical substation in govt./semi govt./autonomous electricity utilities in Bangladesh in the role of contractor or management contractor (years counting backward from the date of IFT).
03	ITT 14.1 (b) Specific Experience	The minimum specific experience as a Contractor or Management Contractor in similar to the proposed plant and services in at least a number of 2 (two) contract(s) of similar nature*, complexity and methods/construction technology successfully completed within the last 10 (ten) years (years	The minimum specific experience as a Contractor or Management Contractor in similar to the proposed plant and services in at least a number of 2 (two) contract(s) of similar nature*, complexity and methods/construction technology successfully completed within



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		<p>counting backward from the date of IFT), each with a value of at least Tk. 13.00 Crore (Thirteen Crore) in govt./semi govt./autonomous electricity utilities in Bangladesh.</p> <p>In addition, performance of the completed turnkey contracts and ongoing turnkey contract(s) as mentioned in Annexure: 5-1 and Annexure: 5-2 shall be taken into consideration during evaluation.</p> <p><u>Note:</u></p> <ol style="list-style-type: none"> The Tenderer shall have to submit End User Certificate(s) in End User's official pad; in favor of above-mentioned experience stating that the performance of the supplied plant and services are satisfactory for at least one (01) year. The End User Certificate(s) duly signed by the end user shall mention the name & commissioning date of the plant and services which were designed, supplied, installed/constructed, tested and commissioned by Tenderer (lead partner in case of JV) and shall contain end-user's full mailing address, e-mail address, website address, fax number and phone number for the convenience of authentication. In any case, NESCO reserve the right to verify genuineness of End User Certificate(s). Certificate(s) those are not in Bangla/English must be notarized on translated English version. <p><i>*Similar nature means: Constriction of 33/11kV or higher voltage level GIS/AIS/GIS+AIS Substation and having capacity regarding engineering, supply, erection, installation, testing and commissioning of at least 2x10/13.33MVA or higher capacity substations on turnkey basis.</i></p>	<p>the last 10 (ten) years (years counting backward from the date of IFT), each with a value of at least Tk. 10.00 (Ten) Crore in govt./semi govt./autonomous electricity utilities in Bangladesh.</p> <p>In addition, performance of the completed turnkey contracts and ongoing turnkey contract(s) as mentioned in Annexure: 5-1 and Annexure: 5-2 shall be taken into consideration during evaluation.</p> <p><u>Note:</u></p> <ol style="list-style-type: none"> The Tenderer shall have to submit End User Certificate(s) in End User's official pad; in favor of above-mentioned experience stating that the performance of the supplied plant and services are satisfactory for at least one (01) year. The End User Certificate(s) duly signed by the end user shall mention the name & commissioning date of the plant and services which were designed, supplied, installed/constructed, tested and commissioned by Tenderer (lead partner in case of JV) and shall contain end-user's full mailing address, e-mail address, website address, fax number and phone number for the convenience of authentication. In any case, NESCO reserve the right to verify genuineness of End User Certificate(s). Certificate(s) those are not in Bangla/English must be notarized on translated English version. <p><i>*Similar nature means: Construction of 33/11kV or higher voltage level GIS/AIS/GIS+AIS Substation and having capacity regarding engineering, supply, erection, installation, testing and commissioning of at least 2x10/13.33MVA or higher capacity substations on turnkey basis.</i></p>
04	ITT 24.2(r) & at Specification[7.2.1.6.1 - Type Test Report.]	<p>For Power Transformers: Type Test Certificates, Reports & Special Tests for offered type similar or higher MVA rating power transformer for same voltage class from any short-circuit testing liaison (STL) Member [http://www.stl-liaison.org/web/03_Members.php] Testing Organization or Laboratory as per relevant IEC standard.</p>	<p>For Power Transformers: Type Test Certificates, Reports & Special Tests for offered type power transformer for same voltage class from any short-circuit testing liaison (STL) Member [http://www.stl-liaison.org/web/03_Members.php] Testing Organization or Laboratory as per relevant IEC standard.</p>
05	ITT 19.2 Subcontract	The maximum of percentage is 20% of Goods allowed to be subcontracted.	The maximum of percentage is 20% of the contract value of Goods allowed to be subcontracted.
06	Note: 5 (in price schedule-1 & Note:3 in price schedule-2 for every sub-station & in BOQ etc.	<i>"The actual quantity will be supplied by the turnkey contractor to complete the work. If additional quantity is required (for completing the work) no extra payment will be made. If the quantity is less than the amount, will be deducted from the bill or be delivered to NESCO store".</i>	<i>"The actual item/quantity will be supplied by the turnkey contractor to complete the work. If additional item is required (for completing the work) no extra payment will be made. If the required quantity is less than the mentioned amount, will be deducted from the bill or be delivered to NESCO store".</i>
07	GTP No 8.01.1, 8.01.2 Serial No-64 (Page-492,495)	All current carrying parts of VCB shall be made of Copper.	Terminals are made by Copper/Al-Alloy and all other parts are made by Copper.
08	GTP No 8.18	In this GTP both 10/13.33 MVA & 20/26 MVA are together. Request you to amend the GTP for 10/13.33 MVA & 20/26 MVA in separate GTP.	10/13.33 MVA related row shall be omitted for this tender.

SL No	Clause No & Name	Queries/Written as	Explanation/Amendment
09	Section 8 GTP	GTP of 33 KV Outdoor VCB & 11KV Indoor Type Vacuum Breaker with Protection, Control & Metering Cubicles Manufacturer's name and country of origin of Vacuum Interrupter- To be mentioned	Manufacturer's name of Vacuum Interrupter- ABB/Siemens/GE/Schneider.
10	Section -5 (Schedules of Rates and Prices) Schedule No. a (1) - Row no. 24, Schedule No. 2 - Row no. 24, Schedule No. b (1) - Row no. 20, Schedule No. b(2) - Row no. 20, Section -6 (6.1.2.1 - Row no. 24, 6.1.2.2 - Row no. 20) etc.	Supply of 11 KV 2000A, 31.5 KA for 3 sec Transformer incoming panel comprising 3 phase busbars 2500A including 11 KV CT (1800-900/5-5-5A), 11kv PT, 3 Over Current + 2 Earth Fault (1 EF + 1 REF) + Directional Over Current Relays, Ammeters, Voltmeters, kWh m. (As per scope of works, Technical Specification and GTP)	Supply of 11 KV Transformer incoming panel comprising 3 phase busbars 2500A, VCB 2000A (31.5 KA for 3 sec) ,11 KV CT (1800-900/5-5-5A) 11KV PT, 3 Over Current + 2 Earth Fault (1 EF + 1 REF) + Directional Over Current Relays, Ammeters, Voltmeters, kWh m and all other accessories as required. (As per scope of works, Technical Specification and GTP)
11	Section -5 (Schedules of Rates and Prices) Schedule No. a (1) - Row no. 25, Schedule No. 2 - Row no. 25, Schedule No. b (1) - Row no. 21, Schedule No. b(2) - Row no. 21, Section -6 (6.1.2.1 - Row no. 25, 6.1.2.2 - Row no. 21) etc.	Supply of overhead 11 KV 630A, 31.5 KA for 3 sec Line Feeder panels, comprising 3 phase busbars 2500A, including 11 KV CT (200-400/5-5A), two pole OC and single pole EF Relays for IDMT protection, Ammeters, Voltmeters , kWh m, HV and LV isolating plug and sockets draw out type VCB with auxiliary switches operating mechanism etc (As per scope of works, Technical Specification and GTP)	Supply of 11 KV overhead Line Feeder panels comprising 3 phase busbars 2500A, VCB 630A (31.5 KA for 3 sec), 11 KV CT (200-400/5-5A) two pole OC and single pole EF Relays for IDMT protection, Ammeters, Voltmeters, kWh m, HV and LV isolating plug and sockets draw out type VCB with auxiliary switches operating mechanism and all other accessories as required (As per scope of works, Technical Specification and GTP)
12	Section -5 (Schedules of Rates and Prices) Schedule No. b (1) - Row no. 22, Schedule No. 2 - Row no. 22, Section -6 (6.1.2.2 - Row no. 22) etc.	Supply of 12 KV 2000A, 31.5 KA for 3 sec bus-coupler panel with bus raiser including 11 KV CT (1800-900/5-5-5A), 2 Over Current + 1 Earth Fault and all other accessories as required (As per scope of works, Technical Specification and GTP)	Supply of 12 KV bus-coupler panel with bus raiser comprising 3-Phase bus bars 2500A, VCB 2000A (31.5 KA for 3 sec), 11 KV CT (1800-900/5-5-5A), 2 Over Current + 1 Earth Fault and all other accessories as required (As per scope of works, Technical Specification and GTP)
13	Section -5 (Schedules of Rates and Prices) Schedule No. a (1) - Row no. 26, Schedule No. a(2) - Row no. 26, Schedule No. b (1) - Row no. 23, Schedule No. b(2) - Row no. 23, Section -6 (6.1.2.1 - Row no. 26, 6.1.2.2 - Row no. 23) etc.	Supply of 11 kV 2x1Cx500 sq.mm XLPE (Cu) Power Cable for phase and 2x120mm ² XLPE (Cu) Cable for neutral as per Scope of Plant & Services, Technical Specification and GTP.	Supply of 11 kV 2x1Cx500 sq.mm XLPE (Cu) Power Cable for phase and 2x150mm ² Cu Cable for neutral as per Scope of Plant & Services, Technical Specification and GTP.

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14	Section -5 (Schedules of Rates and Prices) Schedule No. a (1) - Row no. 22, Schedule No. a(2) - Row no. 22, Schedule No. a(4) - Row no 37(a), Section -6 (6.1.1 (B) - Point No. 12, 6.1.2.1 - Row no. 22, 37(a))	Supply of Substation galvanized steel structure material 1 diameter each 5M*5M along with suitable beam for 33 KV bus section (As per scope of works, Technical Specification and GTP)	Supply of Substation galvanized steel structure material 2 diameter each 5M*5M along with suitable beam for 33 KV bus section (As per scope of works, Technical Specification and GTP)																											
15	Section -5 (Schedules of Rates and Prices) Schedule No. a (1) - Row no. 3,9, Schedule No. a(2) - Row no. 3,9 Section -6 (6.1.2.1 - Row no. 3,9	36 KV, 3150 A , 40 KA for 3 sec outdoor type VCB, 33 KV single phase Current Transformer 1200-2400/1-1-1-1A	VCB & CT of this types of rating will be used in another substations in Rajshahi Division as per direction of Engineer of NESCO.																											
16	Section -6 (6.1.1 (B) - Point No. 30, 6.1.2 (B) - Point No. 24	Contractor shall supply and install digital electronic sign board and complete furniture for the substation control room.	Contractor shall supply and install digital electronic sign board for the substation control room.																											
17	Section -5 (Schedules of Rates and Prices) Schedule No. b (4) - Row no. 33	<table border="1"> <tr> <td>Civil Works: a) Extension of Switchyard 1 no each 5M*5M along with suitable beam for 33 KV bus</td> <td>5M*5M</td> <td>1</td> </tr> <tr> <td>b) Transformer and other equipment base foundation (CT, Isolator, circuit breaker etc., etc).(As per Scope of Works, Technical Specification and GTP).</td> <td>lot</td> <td>1</td> </tr> <tr> <td>c) Renovation of existing control building to Sub-station, Control room Building, false ceiling, dismantling any portion, Drainage & Sanitary system etc</td> <td>lot</td> <td>1</td> </tr> <tr> <td>d) Switchyard fencing, internal road, Power, & Control Cable Trench, dismantling any existing structure, gravelling etc</td> <td>LS</td> <td>1</td> </tr> <tr> <td>e) Plantation , Gardening and beautification work</td> <td>LS</td> <td>1</td> </tr> </table>	Civil Works: a) Extension of Switchyard 1 no each 5M*5M along with suitable beam for 33 KV bus	5M*5M	1	b) Transformer and other equipment base foundation (CT, Isolator, circuit breaker etc., etc).(As per Scope of Works, Technical Specification and GTP).	lot	1	c) Renovation of existing control building to Sub-station, Control room Building, false ceiling, dismantling any portion, Drainage & Sanitary system etc	lot	1	d) Switchyard fencing, internal road, Power, & Control Cable Trench, dismantling any existing structure, gravelling etc	LS	1	e) Plantation , Gardening and beautification work	LS	1	<table border="1"> <tr> <td>a) Transformer and other equipment base foundation (CT, Isolator, circuit breaker etc., etc).(As per Scope of Works, Technical Specification and GTP).</td> <td>lot</td> <td>1</td> </tr> <tr> <td>b) Renovation of existing control building to Sub-station, Control room Building, false ceiling, dismantling any portion, Drainage & Sanitary systemetc</td> <td>lot</td> <td>1</td> </tr> <tr> <td>c)Switchyard fencing, internal road, Power, & Control Cable Trench, dismantling any existing structure, gravelling etc</td> <td>lot</td> <td>1</td> </tr> <tr> <td>d) Plantation , Gardening and beautification work</td> <td>LS</td> <td>1</td> </tr> </table>	a) Transformer and other equipment base foundation (CT, Isolator, circuit breaker etc., etc).(As per Scope of Works, Technical Specification and GTP).	lot	1	b) Renovation of existing control building to Sub-station, Control room Building, false ceiling, dismantling any portion, Drainage & Sanitary systemetc	lot	1	c)Switchyard fencing, internal road, Power, & Control Cable Trench, dismantling any existing structure, gravelling etc	lot	1	d) Plantation , Gardening and beautification work	LS	1
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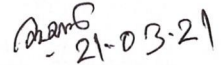
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18	Section - 8.05 Guaranteed Technical Particulars of 11kV Pole mounted Off-Load Isolator with Earth Blade		<p>Following Rows to be added</p> <table border="1"> <tr> <td>Current density at the minimum cross Section of a) Moving Blade b) Terminal Pad c) Contacts d) Terminal Connector</td> <td>Amps/ Sq.mm</td> <td>To be mentioned</td> <td></td> </tr> <tr> <td>Maximum Temp. rise of current carrying parts when carrying rated current continuously (deg. C)</td> <td>deg. C</td> <td>To be mentioned</td> <td></td> </tr> </table>	Current density at the minimum cross Section of a) Moving Blade b) Terminal Pad c) Contacts d) Terminal Connector	Amps/ Sq.mm	To be mentioned		Maximum Temp. rise of current carrying parts when carrying rated current continuously (deg. C)	deg. C	To be mentioned					
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19	Section 8 - GTP of connectors: 8.03	Internal Arc Classification IAC A FLR- 31.5 KA for 1 sec	Internal Arc Classification IAC A FLR- 31.5 KA for 1 sec (Must be supported by type test report from any short-circuit testing liaison (STL) Member [http://www.stl-liaison.org/web/03_Members.php] Testing Organization or Laboratory as per relevant IEC standard).												
20	Section 8 - GTP of connectors: 8.38 (Newly Added)	-	<p>GTP & Drawing of all the required connectors has to be provided.</p> <p>Here for example; GTP & Drawing of T-TYPE CONNECTOR (36/25 mm) has been provided. Few other connectors are - 33 KV FLAT I-TYPE CONNECTOR (25 mm), 33 KV Double I-TYPE CONNECTOR (25/25 mm), 33 KV Double I-TYPE CONNECTOR (36/25 mm), PG Clamp (ACSR Grosbeak) etc. If any other type connectors are to be used, then GTP & Drawing of the same items must be provided. Dimensions of all the connectors have to be similar to the attached drawing here. Dimensions of connectors are subject to approval from NESCO.</p> <p>GUARANTEED TECHNICAL PARTICULARS (GTP) FOR 33 KV T-TYPE CONNECTOR (36/25 mm)</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Description</th> <th>NESCO's Requirement</th> <th>Manufacturer's Particulars</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">Compatible for ACSR MARTIN to ACSR GROSBEAK</td> </tr> <tr> <td>1.</td> <td>Name & Address of the Manufacturer</td> <td>Shall be mentioned</td> <td></td> </tr> </tbody> </table>	Sl. No.	Description	NESCO's Requirement	Manufacturer's Particulars	Compatible for ACSR MARTIN to ACSR GROSBEAK				1.	Name & Address of the Manufacturer	Shall be mentioned	
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			2.	Manufactu rer's Code No.	Shall be mentioned	
			3.	Applicable Standard	BS, IEC, BDS or equivalent international standard	
			4.	Installation	Outdoor and shall be installed for the above- mentioned conductor.	
			5.	Type	Bolted Type	
			6.	Material	Aluminium Alloy (LM6 or higher grade)	
			7.	Minimum continuous current rating at 35°C rise over 40°C ambient temperatur e (75°C)	Shall be mentioned and capable of carrying the continuous current of the specified conductor in Amps.	
			8.	All Dimension s, Dia and Hole Size	Shall be as per drawing (Drg. No. 7.2) (To be confirmed)	
			9.	Weight of 100 nos. in Kg	Shall be mentioned	
			10.	Dimension al Drawing	Shall be enclosed	

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SL No	Clause No & Name	Queries/Written as	Explanation/Amendment
			<p>DRAWING OF 33 KV T-TYPE CONNECTOR (40/25 mm)</p>


 (Md. Mizanur Rahman)
 Superintending Engineer
 Procurement Department
 NESCO, Rajshahi.

Copy to:

1. Managing Director, NESCO, Rajshahi.
2. Executive Director, Technical, NESCO, Rajshahi.
3. Chief Engineer, Services, NESCO, Rajshahi.
4. Project Director, Rajshahi Division Distribution Project, NESCO, Rajshahi.
5. Superintending Engineer, Design & Inspection, NESCO, Rajshahi.
6. Distribution to All Prospective Tenderers.
7. Office Copy.