

**MD/PROC/TS/0528/2024**

5 April 2024

To All Bidders

**ADDENDUM NUMBER TWO (02)**

**TENDER FOR PROCUREMENT OF WORKS FOR THE ELECTRIFICATION AND GRID EXTENSION IN THE ITEZHI-TEZI - NAMBALA 220KV TRANSMISSION LINE CORRIDOR - ZESCO/ONB/015/2024**

Reference is made to the above-mentioned **tender**.

Bidders are advised to take note of the following amendments and clarifications to the Solicitation Documents:

S/N	SD Reference	Clarification Details	ZESCO Response
1.	Part 2 - Price Schedule No. 1. - Plant and Mandatory Spare Parts Supplied from Abroad	For Chibuluma Rural Health Centre Last Mile, Items 3.2 and 3.3 appear to be the same but with different quantities. Please clarify	The line items are correct.  Item 3.2 refers to connection to Rural Health Centre Staff houses while Item 3.3 refers to connection chief's returners houses.  Refer to " <b>Section VII-1: Scope of Works and Supply</b> " of the bidding documents.
2.	Part 2 - Price Schedules	In some cases, the 7/3.35 ACS aerial earth conductor is referred to in KM and in others it is indicated as a lot item. Please clarify which is the correct item	ACS for Aerial Earth Conductor is quantified in " <b>km</b> " while ACS for Pole Earthing is quantified in " <b>lot</b> ".
3.	Part 2	Is it correct that for there is only 1 pole structure earthing 7/3.35mm ACS Conductor for the 76km of 33kV overhead line between ITT substation and Banamwaze?  In the 52km of 33kV overhead line between Kabalwa and Kabanga, 630 similar structures are indicated.	All the 920 pole structures in the 76km of 33kV overhead line between ITT substation and Banamwaze shall be earthed.  All the 630 pole in the 52km of 33kV overhead line between Kabalwa and Kabanga shall be earthed.
4.	Part 2 – Technical Specifications	Detailed specifications for the following items: 1. Single Phase pre-paid energy metering units	The Contractor shall be required to procure the pre-paid energy meters from ZESCO. This is in order to avoid compatibility problems with the ZESCO Metering Vending System.

S/N	SD Reference	Clarification Details	ZESCO Response
		2. Three Phase pre-paid energy metering units	
		3. Ready boards	See attached file named <b>"3. Ready Boards"</b>
		4. Dynamometer	This is an EPC contract, you are required to come up with conceptual designs from the information/data availed to you which shall be reviewed and approved by the Project Manager
		5. Chain Lever Hoist	
		6. 120mmsq 3core XLPE 33kV (Including termination kits)	See attached file named <b>"6. 120mmsq 3core XLPE 33kV"</b>
		7. 35mmsq 4core PVC/SWA/ flying looping cables	See attached file named <b>"7. 35mmsq 4core PVC SWA flying looping cables"</b>
		8. 70mmsq 4core PVC/SWA/ flying looping cables	See attached file named <b>"8. 70mmsq 4core PVC SWA flying looping cables"</b>
		9. 7/3.5mm ACS aerial earth conductor	See attached file named <b>"9. 73.5mm ACS aerial earth conductor"</b>
		10. 10mmsq standard three phase overhead service connection	Three phase overhead service connection shall employ two 10mmsq Duplex cables running together. See the specification for 10mmsq Duplex cables below.
		11. 10mmsq Duplex cables	See attached file named <b>"11. 10mmsq Duplex cables"</b>
		12. 50mmsq ACSR Conductor	See attached file named <b>"12. 50mmsq ACSR Conductor"</b>
		13. All Steel cross arms	The crossarms shall be hot dip galvanised. See the Drawings Section of the Bidding documents for dimensions
		14. Lucy fuses c/w carries	This is an EPC contract, you are required to come up with conceptual designs from the information/data availed to you which shall be reviewed and approved by the Project Manager
		15. Lightning arrestors for 33kV pole mounted transformers	Refer to item No. 4.3 (33kV ZINC OXIDE SURGE ARRESTOR) in Section VII-4. (Technical Schedule) of Part 2 of the bidding documents.
		16. PG clamps	See attached file named <b>"16. PG clamps"</b>
		17. Disc Insulators	This is an EPC contract, you are required to come up with conceptual designs from the information/data availed to you which shall be reviewed and approved by the Project Manager
		18. Strain Clamps	
		19. Adaptors (socket and tongue)	
		20. Shackle insulator	See attached file named <b>"20. Shackle insulator"</b>
		21. Pigtail hook	See attached file named <b>"21. Pig tail hook"</b>
		22. Tension strap	This is an EPC contract, you are required to come up with conceptual designs from the information/data availed to you which shall be reviewed and approved by the Project Manager

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		23. D Brackets c/w pin	See attached files named "23. D Brackets cw pin 90mmSQ" and "23.D Brackets cw pin 65mmSQ"
		24. Brass line tap	See attached files named "24. Brass line tap 100mmSQ" and "24. Brass line tap 70mmSQ"
5.	Part 1 - ITB 4	Is it allowable for us to enter a Joint Venture (JV) with a foreign firm in order to enhance capacity?	There is no restriction for bidders to submit their bids as Joint Ventures with any company.
6.	Part 1 - ITB 17.10	Since the bidder shall bid as "Plant", please clarify if there any incentives such as VAT and Duty being waived off during the importation of the plant under ZDA or ministry of Finance?	Bidders are expected to incorporate all applicable taxes and duties in their pricing for the complete execution of the works (as a single contract) once awarded the contract.
7.	Part 1 - ITB 18.1 and ITB 33	The Bidder is required to quote in the currency of the Employer's Country the portion of the Bid price that corresponds to expenditures incurred in that currency.  Is it allowable for bidders to submit the whole of the bid in a foreign currency in order to avoid currency conversion complications?	Bidders <b>shall</b> quote in Zambian Kwacha the portion of the Bid price that corresponds to expenditures incurred in that currency.  Please note that ITB18.2 allows bidders to express their bid price in no more than three foreign currencies in addition to the Zambian Kwacha.  Further, the methodology of currency conversion is as provided under ITB 33.1
8.	Part 1 - ITB20.3	It it allowable to submit the bid security in form of a bid bond?	ITB20.3 allows for a Bid Security in form of demand guarantee in any of the following forms at the Bidder's option: (a) an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company); (b) an irrevocable letter of credit; and (c) a cashier's or certified cheque.
9.	Part 1 – Qualification Criteria (3.1 Financial Capabilities)	The Solicitation Document requests for submission of audited balance sheets or if not required by the law of the Bidder's Country, other financial statements acceptable to the Employer, for the last Three [3] (2020 to 2022).  Is it allowable for bidders to submit Audited Financial Statements for the period 2021 to 2023	It is acceptable for bidders to submit financial statements for the recent past three years (i.e. 2021 to 2023), provided the three-year period is met by the bidder.
10.	Part 1 – Qualification Criteria (3.3 Equipment)	In the list of Equipment, the following have zero (0) quantities: i. Oil treatment plant, min. 6000 L/hr ii. Vacuum pump	The listed items with zero (0) quantities shall not be required under this project and bidders are not required to cost/provide for them.
11.	Part 1 – Contract Agreement, Appendix 1	The interest percentage has not been indicated in respect to Appendix 1: Terms and Procedures of Payment	In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of <b>One Percent (1.0%)</b> per month for period of delay until payment has been made in full.

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			Notwithstanding this, the final terms will be agreed with the successful contractor at the time of award at contract negotiations stage.
12.	Part 2 - Price Schedule No. 1. - Plant and Mandatory Spare Parts Supplied from Abroad	<p>The description items in 1.2 and 1.6 of the Price Schedule listed below are too broad. Request is being made for the drawings in order for us to much the items. For instance, the Silicon rubber insulators.</p> <p>(i) Item 1.3 - 7/3.35mm ACS aerial earth conductor and earthed. (ii) Item 1.6 - Staywire, plate, rod, insulator etc</p>	This is an EPC contract. The contractor is expected to design and thus come up with the exact numbers
13.	Part 1 – Contract Agreement, Appendix 1	The payment procedures under "Appendix 1. Terms and Procedures of Payment" to be followed in applying for certification and making payments shall be as follows: Has not been provided	<p>The procedures to be followed in applying for certification and making payments shall be as follows:</p> <p>(i) Contractor Submits Invoices; (ii) Employers reviews, certifies and approves; (iii) Utilization request raised to the Financier with all the necessary supporting documents; (iv) Financier pays the contractor directly; and (v) Notice sent to the Employer.</p>
14.	Part 2 – Technical Schedule, item 4.3	The quantities for ZINC Oxide Surge Arrestors has not been provided	<p>This is an EPC contract. The contractor is expected to design and thus come up with the exact numbers and include the respective costing.</p> <p>Refer to Part 2 Section VII-3, Sub-section 1.3.9 for locations of the Surge arresters</p>
15.	Part 2 – Technical Requirements	Please send us the technical specifications for Energy Meters	The Contractor shall be required to procure the pre-paid energy meters from ZESCO. This is in order to avoid compatibility problems with the ZESCO Metering Vending System.
16.	Part 2 - Section VII	<p>1. Please clarify/confirm if there are adjustments on the Scope of Works (and Price Schedule/BOQ) in addition to the scope provided in the bidding documents, following the site visit.</p> <p>2. With regards to scope of works for 33kV Overhead Lines Routes 1 &amp; 2, kindly avail us the (updated, if any) coordinates of the two routes' control points if possible.</p>	<p>1. There is <b>NO</b> adjustment to the scope of work and bids should be based on the Scope of Works and Supply as indicated in the Bidding documents <b>ONLY</b>.</p> <p>2. The coordinates of the line 33kV overhead lines routes remain unchanged.</p>
17.	Part 2 - Section VII Page 48 - 1.4.2 Wooden Pole	The technical requirement in 1.4.2 is used for 12-meter wooden pole, but the supply scope is 14-meter wooden pole. Please clarify the final requirement.	<p>The 33kV lines shall have 14-meter wooden poles while the 400V lines shall have 10-meter wooden poles. Refer to the Price Schedule No. 2 in the bidding documents</p>
18.	Part 2 Section VII	With reference to item 4.1, PV Module Requirement, please add the lighting conditions of the photovoltaic site.	4.1. ZESCO Expects outputs of 3000W for RHC and 5000W for Schools from the Solar PV System.

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	Page 84 - 4.Solar Solution Requirements	"4.1 PV Module Requirement - g) System Voltage minimum of 1000V" and "4.2 Inverter - d) Rated DC input of 48 V." do not match. Please clarify the final requirement.	The site conditions will be considered case by case. 4.2. The solar system to be installed at the schools and RHC are 48V systems. Inverter Voltage (48V): The inverter voltage refers to the voltage at which the inverter, a device responsible for converting the direct current (DC) produced by the solar panels into alternating current (AC) operates. This means that the inverter is designed to handle a DC input voltage of 48 volts from the solar panels. System Voltage (1000V): The system voltage refers to the overall voltage level at which the solar PV system operates. This indicates that the entire solar PV system operates at a voltage of 1000 volts, which typically includes the combined voltage of multiple solar panels connected in series.
19.	Part 2 - Section VII  Page 108 - 7. Price Schedules / Bill of Quantity	Energy metering units appears to not have accurate technical requirements, which may cause the pricing to deviate greatly. Please clarify the specific technical requirements, for example accuracy level, measurement form, current specification etc.	The Contractor shall be required to procure the pre-paid energy meters from ZESCO. This is in order to avoid compatibility problems with the ZESCO Metering Vending System. The unit cost for the Single Phase Pre-paid energy meters is <b>150 USD</b> While the three Phase Pre-paid energy meters is <b>240 USD</b>
20.	Part 2 - Section VII  Page 108 - 7. Price Schedules / Bill Of Quantity	Ready Boards does not have accurate technical requirements, the quotation will deviate greatly. Please clarify the specific technical requirements, for example material, protection level, number of circuits, current specification etc.	See attached file named " <b>3. Ready Boards</b> "
21.	Part 2 - Distribution Network Requirement	Please specify the erection method and tower type of overhead lines used in the local distribution network	This is an EPC contract. you are required to come up with the erection methodology/conceptual designs from the information/data availed to you which shall be reviewed and approved by the Project Manager.  The type of overhead lines is as shown below.  Supports: Wood poles: 14m (33kV, Vertical Staggered), and 10m (0.4kV); Single pole Conductors: 100mm <sup>2</sup> and 50mm <sup>2</sup> ACSR Aerial earth: 1 overrunning, Aluminum Clad steel (ACS) Insulators: Silicone rubber/Porcelain. suspension/tension
22.	Part 2 - Wood Pole Supports	Please specify the type and diameter of the pole used locally	Refer to item 1.9 (Wood Pole Supports) in Section VII-3. (Particular Technical Requirements) of Part 2 of the bidding documents.
23.	Part 2 – Technical Requirements	Are there existing routes on the path to be designed? If yes, will the original lines be directly demolished, or	There are no existing lines in the line route for the line under this project.

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		needed to be outage transition? Are there old towers to be used?	
24.	Part 2 – Scope of works and Supply	Does the end of the transmission line need to be connected to the households? If so, what are the local requirements and habits for low-voltage households? Are incoming transmission lines allowed to cross paths?	As specified in the Scope of works and Supply, Households, Schools and Health Centres shall be connected to the power grid. The local requirements are as specified in the specifications.  The power may cross each other provided the clearances are not breached.
25.	Part 2 – Corner Poles (Stays)	For corner poles, what is the local method, using a door pole or a large diameter pole?	Stay wires shall be used to support corner poles. • Refer to 1.4.6 (Stay) in Section VII-3. (Particular Technical Requirements) of Part 2 of the bidding documents.
26.	Part 2 - Price Schedule No. 1. - Plant and Mandatory Spare Parts Supplied from Abroad	It has been observed from the price schedule, for example, at Babizhi Primary School there is a 'flying looping' in some routes. Please clarify the specific meaning.	Flying looping cables means that the cables from transformer Low voltage side to the first pole of the Low Voltage network. Note that this cable shall not be buried underground neither shall it be bare ACSR conductor.
27.	Part 2 – PriceScope of Works and Supply	After 4.13, the lines such as Musanza Primary School will directly construct 400V lines. Is it connected from the original line T?	The School (and stuff houses) shall be connected to the 400V overhead lines using 10mmsq standard overhead service cables
28.	Part 2 - General Request	Request is being made for ftypical photos of single-phase, three-phase and Ready Boads installation in Zambia.	The Contractor shall be required to procure the pre-paid energy meters from ZESCO. This is in order to avoid compatibility problems with the ZESCO Metering Vending System.  See attached file named " <b>3. Ready Boards</b> " for Ready Board specifications.
29.	Part 2 - General Request	Can you provide specific drawings of similar local projects?	We are not able to provide specific drawings of similar local projects. Please refer to the drawings and specifications provided in the bidding documents

Further to the above clarifications, Bidders are advised that the tender closing date has been extended from **12 April 2024 to 26 April 2024 at 10:30 hours** Zambian Time.

All other details of the tender processes remain unchanged.

  
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**HEAD PROCUREMENT**  
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