



ZAMBIA – TANZANIA INTERCONNECTOR PROJECT Package 4

CLARIFICATIONS TO BIDDING DOCUMENTS

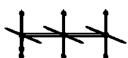
S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
1.	ITB 23.1	Bid Data Sheet	Y	Due to the technical complexity of the project, together with the time required for coordination with manufacturers and collection of detailed technical documentation and supporting materials, we request for another one month extension from the current 26th June, 2026 to 26th July, 2026 to allow us to adequately prepare a comprehensive and fully responsive bid submission	Time extension is granted. An Addendum 3, S.No 12 has been issued to amend the bid submission deadline from 26 June 2026 to 21 August 2026.
2.	Schedule 1 – 1.2.4.1 11.1.3	Price Schedules Employer's Requirements	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.2. KASAMA SUBSTATION 1.2.4.1 330kV Three Phase Disconnecter with supporting structure. Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION</i>	The quantities for the 330kV <i>three Phase Disconnecter with supporting structure</i> shall be eight (8) as provided in the following sections; 1. <i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.2. KASAMA</i>

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		48100008-KASAMA-SLD 01. Single line diagram 48100008-KASAMA-GA. PROPOSED LAYOUT		<i>SERVICES BY THE CONTRACTOR. 11.1.3 Primary Plant</i> <i>48100008-KASAMA-SLD 01. Single line diagram</i> <i>48100008-KASAMA-GA. PROPOSED LAYOUT</i> In the BOQ and scope of supply, 330kV Three Phase Disconnecter is 8 sets. In the single line diagram it is 10 sets. Please confirm how many sets of 330kV Three Phase Disconnecter.	<i>SUBSTATION 1.2.4.1 330kV Three Phase Disconnecter with supporting structure.</i> <i>2. Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.1.3 Primary Plant.</i> An addendum 3 S.No 2 has been issued for the following drawings by removal of one disconnector on the reactor line side of the reactor bay. - A1-Kasama Substation Layout_REV01_30062026 - B-KASAMA-SLD-REV01_30062026 The line reactor bay shall have one (01) three-phase 330kV disconnector with single earth switch (reactor CB side);
3.	Schedule 1 – 1.2.7.1 11.1.3	Price Schedules	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.2. KASAMA SUBSTATION 1.2.7.1 330kV</i>	The quantities for the 330kV Single Phase Current Transformer complete with

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		Employer's Requirements 48100008-KASAMA-SLD 01. Single line diagram		<i>Single Phase Current Transformer complete with supporting structure.</i> <i>Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.1.3 Primary Plant</i> <i>48100008-KASAMA-SLD 01. Single line diagram</i> In the BOQ and scope of supply, 330kV Single Phase Current Transformer is 12 Nos. In the single line diagram and layout drawing it is 6 nos. (Shunt Reactor bay only have shunt reactor bushing CT). Please confirm how many sets of 330kV Three Phase Disconnector [it is assumed bidder means current transformers].	supporting structure shall be twelve (12) as provided in the following sections; PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.2. KASAMA SUBSTATION 1.2.7.1 330kV Single Phase Current Transformer complete with supporting structure.. Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.1.3 Primary Plant. An addendum 3 S.No 2 has been issued for the following drawings by an addition of Three (03) single-phase post mounted 330kV current transformers on each reactor bay. The bushings CTs in the reactors shall be maintained. - A1-Kasama Substation Layout_REV01_30062026 - B-KASAMA-SLD-REV01_30062026

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4.	11.1.4	Employer's Requirements	Y	<i>Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.1.4 Auxiliary Power Supply - Misc. auxiliaries Flood light for illumination of switchyard of the extensions.</i> The scope of supply include lighting for illumination of switchyard of the extensions. The BOQ doesn't include the outdoor lighting supply. Please confirm the switchyard of the extensions need consider the lighting system or not.	Addendum No 3 S.No.5 has been issued to amend item 4.2.19.14 and 4.2.19.15 of the BOQ to include the complete supply, installation, testing and commissioning of switchyard lighting and perimeter lighting for the Kasama extension
5.	1.2.19.1	Price Schedules	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.2. KASAMA SUBSTATION. 1.2.19.1 Fixtures and finishes for Control building as per employer's requirements.</i> Please confirm the Fixtures and finishes for Control building include the indoor lighting system and socket system or not.	Fixtures and finishes for Control building does not include the indoor lighting system and socket system. The full list of fixtures and finishes for Control building are listed in Section 7 (Employer's Requirements) subsection 11.1.16 - 11.1.23 and Drawing A2-PP-ZTIP003-ODSS-Refurbishment Works at Kasama Substation_REV00_30062026 of the RfB. Note that the drawing A2-PP-ZTIP003-ODSS-

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					<i>Refurbishment Works at Kasama Substation_REV00_30062026 was omitted and has been issued as an attachment to addendum 3 S.No 1</i>
6.	2.2 2.2.6 2.3.6	Technical Schedules 48100008-KASAMA-GA. PROPOSED LAYOUT	Y	In Form 330 kV Disconnecter Line "2.2.6 Mode of opening/closing - Horizontal centre break" and Form 330 kV Disconnecter Transformer "2.3.6 Mode of opening/closing - Horizontal centre break" In the technical schedule, the mode of opening/closing of the disconnecter is "horizontal centre break", however, in accordance with the drawing "A1-Kasama Substation Layout" and "C-NAK-330 kV Nakonde Stepdown Substation Layout", the mode of opening/closing of the disconnecter shall be "Three-column, center-rotating, double-break". Based on our understanding, "Horizontal centre break" type has only one break, whereas "Three-column, center-rotating, double-break" type has two breaks, the break of "Three-column, center-rotating, double-break" can withstand higher voltage, and therefore, more adapted for 330kV system. "Horizontal centre break" type can be used for 132kV and 220kV system.	The 330 kV Disconnecter Line shall be Two fixed and one centre rotating column type. <i>Part 2 – Employer's Requirements 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS. An Addendum 3, S.No 3 issued to amend items 2.2.6 and 2.3.6 Mode of opening/closing to Three-column, horizontal, center-rotating, double-break type.</i>

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				Please clarify. <i>Part 2 – Employer's Requirements 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS. 2.2. 330 kV Disconnecter Line.</i> <i>48100008-KASAMA-GA. PROPOSED LAYOUT</i> In the GUARANTEED TECHNICAL CHARACTERISTICS, the Mode of disconnecter is Horizontal centre break. The layout drawing is Two fixed and one rotating column type. Please confirm.  330kV three-phase isolating switch (Un-Grounding), to the ground setting  330kV three-phase isolating switch (Un-Grounding), high setting	
7.	Schedule 1 – 1.1.6.1 11.2.4	Price Schedules Employer's Requirements NAK-R001-111. Single line diagram	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION 1.1.6.1 330kV Single Phase Current Transformer (7-core) complete with supporting structures.</i> <i>Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.2.4 Primary Plant</i>	The quantities for the 330kV Single Phase Current Transformer (7-core) complete with supporting structures shall be thirty-three (33) as provided in the following sections; 1. PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION

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				<i>NAK-R001-111. Single line diagram</i> In the BOQ and scope of supply, 330kV Single Phase Current Transformer is 33 Nos. In the single line diagram it is 30 nos. The single line diagram 330kV bus coupler have 3 nos CT. The scope of work supply for bus coupler is 6 nos. Please confirm how many nos. of 330kV CT	1.1.6.1 330kV Single Phase Current Transformer (7-core) complete with supporting structures An addendum 3 S.No 4 issued by an addition of; - Three (3) 330kV Single Phase post mounted Current Transformers (7-core) complete with supporting structures on other side of the CB of the Bus coupler bay of the Drawing <i>NAK-R001-111. Single line diagram</i>.
8.	Schedule 1 – 1.1.6.3 11.2.4	Price Schedules Employer's Requirements NAK-R001-111. Single line diagram	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION 1.1.6.3 132kV Current Transformer (CT) complete with supporting structures. Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.2.4 Primary Plant</i> <i>NAK-R001-111. Single line diagram</i> In the BOQ and scope of supply, 132kV Single Phase Current Transformer is 18 Nos. In the single	The quantities for the 132kV Current Transformer (CT) complete with supporting structures. shall be eighteen (18) as provided in the following sections; 1. <i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION 1.1.6.3 132kV Current Transformer (CT) complete with supporting structures.</i>

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				line diagram it is 15 nos. The single line diagram 132kV bus coupler have 3 nos CT. The scope of work supply for bus coupler is 6 nos. Please confirm how many nos. of 132kV CT	2. <i>Section VII – Employer's Requirements. 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR. 11.2.4 Primary Plant</i> An addendum 3 S.No 4 issued by an addition of post mounted 132kV Current Transformer (CT) complete with supporting structures on other side of the CB of the Bus coupler bay on the Drawing NAK-R001-111. Single line diagram.
9.	Schedule 1 – 1.1.16.2	Price Schedules NAK-R001-111. Single line diagram NAK-R003-130. Layout Drawing	Y	<i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION 1.1.16.2 15kVAr Neutral Compensating Reactors.</i> <i>NAK-R001-111. Single line diagram</i> <i>NAK-R003-130. Layout Drawing</i> In the BOQ, 15kVAr Neutral Compensating Reactors is 2 sets. In the single line diagram and layout drawing it is 2 sets. The busbar shunt reactor bay also include 1 set of 15kVAr Neutral Compensating Reactor. Please confirm how many sets. of 15kVAr Neutral Compensating Reactors.	The quantities for the 15kVAr Neutral Compensating Reactors shall be two (02) as provided in the following sections; 1. <i>PACKAGE 4 PRICE SCHEDULES. Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad. 1.1. 330kV NAKONDE STEPDOWN SUBSTATION 1.1.16.2 15kVAr Neutral Compensating Reactors.</i> An addendum 3 S.No 4 issued by deletion of 15kVAr Neutral Compensating Reactors

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					on the Shunt reactor bay in the following drawings; - NAK-R001-111. Single line diagram - PP-ZTIP-P04-ODSS-C109_Nakonde SS - GA_R00_30062026
10	1.1.5.1 1.1.5.2 1.1.5.3 1.1.5.4	Price Schedules	Y	1.1.5.1 330kV Three Phase Disconnecter with Earth-switch, 11 sets", "1.1.5.2 330kV Three Phase Disconnecter with Earth-switch, 1 sets". The items of 1.1.5.1 and 1.1.5.2 are the same, both are "330kV Three Phase Disconnecter with Earth-switch", we would like to know whether 1.1.5.2 is the spare Disconnecter, or 1.1.5.2 is the Disconnecter with double earth-switches whereas 1.1.5.1 is the Disconnecter with single earth-switch? Please clarify. 1.1.5.3 132kV Three Phase Disconnecter with Earth-switch, 4 sets", "1.1.5.4 132kV Three Phase Disconnecter with Earth-switch, 1 sets. The items of 1.1.5.3 and 1.1.5.4 are the same, both are "132kV Three Phase Disconnecter with Earth-switch", we would like to know whether 1.1.5.4 is the spare Disconnecter, or 1.1.5.4 is the Disconnecter with double earth-switches whereas 1.1.5.3	Item 1.1.5.1 330kV Three Phase Disconnecter with Earth-switch, 11 sets shall be maintained. Addendum 3, S.No 5 issued for Price Schedule item 1.1.5.2 corrected as; "1.1.5.2 330kV Three Phase Disconnecter with Earth-switch as spare, 1 set" Price Schedule Item 1.1.5.3 132kV Three Phase Disconnecter with Earth-switch, 4 sets shall be maintained. Addendum 3, S.No 5 issued for item 1.1.5.4 corrected as; "1.1.5.4 132kV Three Phase Disconnecter with Earth-switch as spare, 1 set".

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				is the Disconnecter with single earth-switch? Please clarify.	
11	1.1.7.3	Price Schedules	Y	1.1.7.3, 36kV Surge arresters (for neutrals of 3x10MVAR reactors to protect NCR against over-voltages) complete with supporting structures, 2 each. According to the SLD Drawing of Nakonde S/S, there shall be three (3) 36kV Surge Arresters (for neutrals of 3x10MVAR reactors to protect NCR against over-voltages), please clarify and amend the number.	The quantities of the 36kV Surge arresters (for neutrals of 3x10MVAR reactors to protect NCR against over-voltages) complete with supporting structures shall be two (02) as provided for on item 1.1.7.3. An addendum 3, S.No 4 issued by deletion of 15kVAr Neutral Compensating Reactor and 36kV Surge arresters on the Busbar Shunt reactor bay in the following drawings; - NAK-R001-111. Single line diagram - PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026 Refer to RfC 9 and Addendum 3, S.No 4
12	1.2.8.2	Price Schedules	Y	1.2.8.2 36kV Surge arresters (for neutrals of 3x10MVAR reactors to protect NCR against over-voltages) complete with supporting structures, 2 Lot.	Addendum 3, S.No 5 shall be issued by changing the unit of item 1.2.8.2 from "Lot" to "Each".

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				According to 1.1.7.3 of "Package 4 Price Schedules" - Schedule 1, the unit of 1.2.8.2 shall be "each" other than "Lot", please clarify.	
13	1.2.6.1	Price Schedules	N	1.2.6.1 Post insulators complete with supporting structure, 2 Lot. We would like to know why it is 2 lots, not 1 lot? Shall the Contractor supply two different types of Post Insulator?	2 Lots is signifying the two (2) line bays (Nakonde 1 & 2) at Kasama SS. The contractor shall supply Post insulators of the same type
14	1.1.16.2	Price Schedules	Y	1.1.16.2 15kVAr Neutral Compensating Reactors, 2 Lot. According to the SLD Drawing of Nakonde S/S, there shall be three (3) 15kVAr Neutral Compensating Reactors, please clarify and amend the number.	Refer to RfC 9 and Addendum 3, S.No 5
15	1.2.15.5	Price Schedules	Y	1.2.15.5 Sergi Fire Protection control system spares, 1 Lot. We would like to know the scope of supply for the spares, because the concept Sergi Fire Protection Control System is very broad, we don't know which items/components are included and defined as "Control System", which are not. Please clarify.	Addendum 3, S.No 5 issued to include the list of spares that includes but not limited to the following; - 3 x Red leds (Control Box) - 10 x Green leds (Control Box) - 2 x Pilot green light (TP Cabinet) - 2 x Pilot red light (TP Cabinet) - 5 x Relay 24 VDC - 2 x Set of Fuses - 2 x Electrical Actuator - 1 x Rupture Disk

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					- 1 x Shock Absorber - 2 x Gasket
16	14.2	Section VIII – General Conditions of Contract	N	"14.2 – Notwithstanding GCC Sub-Clause 14.1 above, the Employer shall bear and promptly pay (a) all customs and import duties for the Plant specified in Price Schedule No. 1; and (b) other domestic taxes such as, sales tax and value added tax (VAT) on the Plant specified in Price Schedules No. 1 and No. 2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located." In the general condition 14 taxes and duties, it clearly states that the customs duties, value-added tax, and consumption tax for the goods in Quotation Tables 1 and 2 shall be borne by the owner. However, it needs to clarify who shall bear the value-added tax and other relevant taxes for the design services and installation services in Quotation Tables 3 and 4.	For pricing purposes, please refer to ITB 17.5 Schedules Schedule 1: Prices shall be based on CIP (Site – Kasama/Nankonde) – refer to ITB 17.5 (a). Schedule 2: Prices shall be based on Ex-W (Zambia). Refer to ITB 17.5 (b) (i) and (ii). Schedule 3: Prices shall be in line with ITB 17.5 (c) and broken down as per Schedule 3. Prices shall include all taxes, duties, levies and charges payable by the Contractor in respect of Design Services, except to the extent expressly borne by the Employer under GCC 14.2.

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					Schedule 4: Prices shall be in line with ITB 17.5 (d) (including all taxes, duties, levies and charges payable in the Employer's Country) and broken down as per Schedule 4 Schedule 5: (Grand Summary) – refer to clarity for Schedule 1-4 above. Schedule 5 is the summation of schedule 1-4 as clarified above Schedule 6: Prices shall be based on CIP (imported Plant or Ex-W (Locally sourced Plant)). Schedule 7: (Daywork rates) The Contract Price specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement shall be based on the taxes, duties, levies and charges prevailing at the date twenty-eight (28) days prior to the date of Bid submission in

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					the country where the Site is located according to GCC Sub-Clause 14.4
17		Section X – Contract Agreement, Appendix 1 – Terms and Procedures of Payment	Y	"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 SOFR Plus Two percent (2%) per annum for period of delay until payment has been made in full. " We would like to know which SOFR rate shall apply, overnight rate, or one-month, three-month or six-month? Please clarify.	The SOFR rate shall be one month. Addendum No. 3, S. No.6 issued to amend Appendix 1
18		Section X – Contract Agreement, Appendix 6 – Scope of Works and Supply by the Employer	Y	"As per the safety rules and procedures of ZESCO Limited." Power interruption is inevitably required for Kasama S/S because new line bays will be integrated in the existing 330kV system, therefore, we would like to obtain "the safety rules and procedures of ZESCO Limited", so that our methodology and progress program will be made in line with ZESCO's requirement. Please share the documents.	Safety Rules and Procedures of ZESCO Limited are as attached. Refer to Addendum 3, S.No 7

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19.	.. 2.1 2.8 12.8	Single Line Diagram Technical Schedules Employer's Requirements	Y	Kasama SLD: 4800008-KASAMA-SLD 01 Rev.2 Technical Data Sheet: 2.1. 330 KV CIRCUIT BREAKERS Technical Specification: - Clause 2.8 Basic Electrical System Design - Clause 12.8 Technical Specification for Outdoor Circuit Breakers As per Single Line diagram short circuit current for 330kV CB shall be 50kA/3Sec with 125kA peak. However, in technical data sheet, Basic electrical system design parameters and circuit breaker technical specification Short Circuit rating is mentioned as 40kA/3Sec, 100kA peak. Please confirm the exact requirement.	An addendum 3, S.No2 issued for the following drawings by replacement of 50kA(3sec) 125kA by 40kA(3sec) 100kA on 330kV circuit breaker ratings. <i>B-KASAMA-SLD-REV01_30062026</i>
20.	12.8	Employer's Requirements	Y	Kasama Technical Specification: Clause 12.8 Technical Specification for Outdoor Circuit Breakers We understand that a controlled switching device (point-on-wave switching device) is not required for 330kV circuit breakers. Please confirm.	Circuit for point on wave relay is required for all circuit breakers. An addendum 3 S.No 3 shall be issued to amend the requirement of Technical Schedule item 2.1.23

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21.	12.9	Employer's Requirements	N	Kasama Technical Specification: 12.9 Technical Specification for Outdoor Disconnectors Please clarify the requirements for the 330kV busbar disconnectors and earthing switches: 1. We understand that bus transfer switching capability is not envisaged for the busbar disconnectors. Please confirm if this is correct. 2. Kindly confirm the requirement of induced current in earthing switches	1. The technical specifications for busbar disconnectors and earth switches shall be as given in Guaranteed Technical Characteristics 2.2 330kV Disconnector line. 2. The Earth switch must be able to withstand the rated short circuit current and any induced current and the temperature rise of contacts due to the flow of rated earth fault current for the specified period will not cause any annealing or welding of the contacts. Refer to sections 12.15.1.9 and 12.15.1.13 of Section VII and 2.4 of the Guaranteed Technical Schedule

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22.	12.9.11	Employer's Requirements	N	Kasama Technical Specification: 12.9 Technical Specification for Outdoor Disconnectors 12.9.11 Operating Mechanism We understand that a mechanically gang-operated disconnector using a single, common operating mechanism for all three phases is acceptable. Kindly confirm.	Confirmed. Note that ""gang operated"" as referred to in Employer's Requirements 12.9.11 and Guaranteed Technical Schedule item 2.2.7 refers to all 3 phases mechanically ganged together with a single common operating mechanism as described in the Section VII 12.9.8
23.	 2.6 12.11.7	Single Line Diagram Technical Schedules Employer's Requirements	Y	Kasama Technical Specification: 12.11 Technical Specification for Current and Voltage Transformers 12.11.7 Current Transformer (CT) SLD: 4800008-KASAMA-SLD 01 Rev.2 TDS :2.6. 330 kV Current Transformer Line Feeder Bay, 2.6 330 kV Current Transformer - Transformer Bay As per SLD, line feeder bay CT's are with ratio 1200-2400/1A and 6 cores with 2 nos. metering cores class 0.2s and four nos PX class protection cores.	The number of cores and classes and related VA shall be as provided in the Guaranteed Technical Schedule item 2.5 and 2.6. Addendum 3 S.No 2 issued to amend the details of the CT on the drawing B-KASAMA-SLD-REV01_30062026 to reflect addition of a protection core on the 330kV post mounted current transformers and amending of metering core burden to 5VA. Note that protection class burden will stay as 10VA

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				Technical data sheet and specification calls for 7 core CT's for line bay with 2 nos. metering cores and four nos PX class protection cores and one 5P20 class protection core. Futher in SLD, VA burden is mentioned as 10VA for metering cores whereas in TDS same is specified as 5VA. Please clarify exact requirement for number of cores and protection class and VA burdens.	
24.	1.2.8.2	Price Schedules Technical Schedules	Y	Kasama Price schedule: Sr. 1.2.8.2 Please provide Technical data sheet for 36kV Surge Arrester.	An addendum 3 S.No 3 issued to include the Technical Data Sheet for 36kV Surge Arrester in the Guaranteed Technical Schedules
25.	12.7.13 1.7	Employer's Requirements Technical Schedules	N	Kasama Technical Specification: 12.7.13 Porcelain insulators TDS : 1.7 Post Insulator Please confirm cantiliver kN rating for 330kV Bus post insulators.	Please note that the Specified Mechanical Failing Load in Guaranteed Technical Schedules item 1.7.9 (bidders to provide) defines the ultimate breaking threshold of the insulator assembly, serving as the governing mechanical reference for the unit's strength and will suffice for design validation.

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26.	1.2.1.1 1.2.1.2 1.2.1.3	Drawings Price Schedules	N	Kasama Layout Drawing : 48100008-KASAMA-GA Rev.2 Price Schedule : 1.2.1.1, 1.2.1.2, 1.2.1.3 We note that the Price Schedules mention AAC 'Tarrantula' (or LKGG-600) and ACSR 'Bison' (or LGJ-400/50) conductors. To ensure correct interfacing, please confirm the type and configuration (Single, Twin, or Quad) of the existing busbar conductor that is to be extended under the present scope of work. Furthermore, please clarify the exact conductor type and configuration required for the new Line Bay and Reactor Bay connections.	The scope of work shall be as given in Section VII subsection 12.5.2: <i>"The stranded busbar and stringing conductor shall be either double AAC "Tarrantula" or LGKK-600" and "either ACSR Bison or LGJ 400/50 shall be used for inter-equipment connections"</i>, as the provided comparable options are electrically and mechanically interchangeable Note that the existing busbar conductor is twin LGKK-600 at Kasama SS and the line bay uses twin LGJ-400/50 conductor. Refer to drawing B-KASAMA-SLD-REV01_30062026
27.	1.2.10	Price Schedules	N	Kasama Price schedule Sr. 1.2.10 Auxiliary Power & Control Cables We note that the Price Schedule lists various specific sizes for control cables, but low-voltage power cables appear to be missing from the line items.	Note that Price Schedule items 1.2.10.1, 1.2.10.9 - 1.2.10.10 all list various 4 core cables with varying cable sizes which shall be used as power cables (lighting, sockets, switchgear

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				Please clarify whether the cable sizes specified in the schedule are mandatory, or if alternative sizes based on our detailed engineering calculations may be proposed. Furthermore, please clarify under which specific price schedule line item the costs for the missing power cables should be allocated and quoted.	supply). The bidders shall price for these line items accordingly
28.	1.2.11 12.23	Price Schedules Employer's Requirements	Y	Kasama Price schedule Sr. 1.2.11 Earthing and Lightning Protection Technical Specifications : 12.23 Technical Specification for Earthing and Lightning Protection Please clarify the grounding scope and parameters for the substation expansion: 1. Please confirm whether a main earthing grid is already laid within the present bay extension area, or if the existing grid must be extended into this zone under our current scope of work. 2. To ensure design compatibility, please confirm the material type, conductor size, and grid spacing parameters used in the existing earthing network.	1. Confirmed. A main earthing grid is already laid within the present bay extension area and no further extension of the earth mat is required under the scope at Kasama SS except to link all new equipment to the existing earth grid. For the extension, the Contractor shall make his own calculations and design fulfilling all relevant requirements in the RfP. 2. Addendum 3 S.No 9 issued to include the drawing Kasama Substation Lightning and

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					Earth Network_ As-Built_201012015
29.	1.2.12 11.1.7	Price Schedules Employer's Requirements	Y	Kasama Price schedule Sr. 1.2.12 Protection and Control - Kasama S/S Scope of Works : 11.1.7 Protection System To ensure seamless integration and compatibility with the existing system, please confirm the make and manufacturer of the existing control and protection panels. Additionally, please provide the specific makes and models of the protection relays currently deployed in the existing Line and Reactor bays.	The make and manufacturer of the existing control and protection panels is Schneider Electric. Our requirements as per Section VII subsection 12.19.5.1 shall stand as follows: <i>"For Kasama 330kV substation, the new bay's protection IED's should be matched to the existing suppliers and models installed if possible."</i> The scope of work as described in subsection 11.1.7 - 11.1.9 shall stand.

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					An addendum 3 S.No 11 issued to include the following details under SECTION VII 11.1.7 Protection System: “Existing Line and Reactor Bay Relays • Shunt reactor Biased Differential Relay: Schneider P642 • Shunt and Neutral reactor backup protection: Schneider P142 • Line Main 1 Differential Protection relay:

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					Schneider P543 - Line Main 2 Distance Protection relay: Schneider P443 - Line backup Protection relay: Schneider P142"
30.	1.2.12 11.1.7	Price Schedules Employer's Requirements	Y	Kasama Price schedule Sr. 1.2.12 Protection and Control - Kasama S/S Scope of Works : 11.1.7 Protection System Please provide the following clarifications regarding the existing busbar protection system to ensure seamless integration of the new 330kV bays: 1. Please confirm the make, manufacturer, and model of the existing Busbar protection panels and associated relays.	1. An addendum 3 S.No 11 issued to include the following details under SECTION VII 11.1.7 Protection System: "The existing Busbar protection relay is Schneider P746" 2. Confirmed. New bays shall be integrated into the existing & upgraded Busbar protection

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				2. Please confirm whether the existing busbar protection relay has adequate capacity and available input/output (I/O) channels to integrate the new 330kV bays within the current scope of work, or if modification/replacement is required.	
31.	1.2.14 11.1.6	Price Schedules Employer's Requirements	Y	Kasama Price schedule Sr. 1.2.14 SAS - Kasama S/S Scope of Works : 11.1.6 Substation Automation System To ensure full technical compatibility and system integration of the new 330kV bay extensions with the existing infrastructure at Kasama Substation, please clarify the following: 1. Please confirm the exact make, manufacturer, software version, and platform details of the existing Substation Automation System (SAS) and gateway HMI. 2. Please provide the existing SAS network architecture drawings.	1. The existing Substation Automation System (SAS) and gateway HMI are of make Schneider Electric. SAS shall be integrated to the latest version to be established under a separate package 2. An addendum 3 S.No 9 issued to include the Kasama SS SAS network architecture _ REV00_20102015 drawing
32.	1.2.13 11.1.13 12.20	Price Schedules Employer's Requirements	N	Kasama Price schedule Sr. Telecommunication - Kasama S/S	The scope of work for telecommunications at Kasama SS shall be as provided in Section VII 11.1.13:

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Technical Specifications: 12.20 Technical Specification for Telecommunication Scope of works: 11.1.13 Telecommunication Systems In scope of works and price schedule, ZTE make equipment are specified. Please confirm whether any other make telecommunication equipment can be supplied complying to specification requirement and compatible with ZTE make equipment for the new transmission links.	<i>"The Bidder shall endeavor to supply multiplexers similar or of superior versions to the ones already installed on the ZESCO network through other projects."</i> <i>"The bidder shall also supply PCM multiplexers of make and type as the ones already installed on the ZESCO network"</i> <i>"Subsequently additional telecommunications terminal equipment required for this project shall be based on the ZTE technologies or solutions"</i>
33.	4.18.1 1.1.18 11.1	Technical Schedules Price Schedules Employer's Requirements	N	Kasama 4.18. Technical Data Sheet for 48V and 110V DC Supply 4.18.1. Batteries – Kasama Price schedule Sr. 1.1.18 48V & 110V DC System Scope of works : 11.1 330 kV Kasama Substation - DC Supply As per price schedule, 110V Battery banks of 800AH (2 Lots) and 48V battery bank of 1200AH (2	The requirements of Price Schedule item 1.1.18 shall stand. Note that Price Schedule item 1.1.18 refers to supply at Nakonde SS of 48V & 110V DC System. Scope of works at Kasama SS – DC Supply shall stand as in Section VII 11.1.4 330 kV

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Lots) and associated battery chargers, DC distribution panels are mentioned. However we understand that being extension work in existing substation, complete DC system is already available. Further scope of works also states that 'existing supply to cover the load of the extensions.' Please review and clarify requirement of Battery, Chargers and DC panels indicated in price schedule.	Kasama Substation - DC Supply: <i>"Existing supply to cover for the load of the extensions"</i>
34.	3.1	Employer's Requirements	N	Kasama Technical specification: 3.1 Project Area Altitudes We understand that all equipment for Kasama substation shall be suitable for 2000m altitude. Please confirm.	Confirmed. Scope of work as per Section VII 3.1 shall stand: <i>"Existing As-built documentation is corrected to a design site altitude of 2000 m. For the extension works, the Contractor shall harmonise all clearances for an altitude of 2000 m"</i>
35.	... 1.2.19.1	Drawings Price Schedules	Y	Kasama Layout Drawing : 48100008-KASAMA-GA Rev.2 Price Schedule: 1.2.19.1 Fixtures and finishes for Control building as per employer's requirements Please elaborate exact scope of works in existing building.	Refer to RFC 5 and addendum No 3 S.No 1

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
36.	11.1.15	Employer's Requirements	N	Kasama 11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED, Clause no. 11.1.15, Civil Work To ensure civil design uniformity, please confirm the thickness of the existing switchyard crushed stone (gravel) surfacing layer. Additionally, please clarify if this layer needs to be completely replenished within the new bay extension area.	Thickness of the existing switchyard crushed stone (gravel) surfacing layer does not exceed 200mm. Scope of work for yardstone under Section VII 11.1.15 indicates: "<i>Preparation of areas for new equipment, such as removal of yard stone before any excavation</i>" and "<i>Finishing outdoor switchgear area with yard stone</i>". The bidder shall decide to use the existing switchyard yard stone (that will be initially cleared) for their finishes or replenishing using specifications for coarse aggregate in Section IV 12.25.21
37.			N	Kasama – Rainfall Data Kindly provide the rainfall intensity data for the existing substation area to assess drainage and foundation design considerations.	Rainfall intensity as given in Section VII 3.6, Table 3-1 General Climatic conditions in Project area and Guaranteed Technical Schedules 0.1 Climatic Conditions apply to Kasama SS area

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
38.			N	Kasama – Topography Please provide the Existing Finished Ground Level (FGL) of the substation along with the topographic contour details for the project scope area.	Note that the requested Finished Ground Level (FGL) and topographic contour data are not required for pricing purposes at this stage, as the scope and cost estimation remain independent of specific civil site levels. The extension works shall use the existing platform
39.			N	Kasama – Geotechnical Report Kindly provide the Geotechnical Investigation Reports for existing substation to facilitate detailed design and foundation engineering.	No geotechnical investigation reports are readily available at this time. Refer to Section VII 2.7
40.	4.2.18 4.2.19	Price Schedule	Y	Kasama SCHEDULE 4_ CL.4.2.18. and Cl.4.2.19. Kindly provide the existing drawings based on available geotechnical and site data for the following items: 1. Transformer and Reactor foundations, including oil burn pit and fire wall. 2. Fire and Bund walls	Refer to RFC 39 and amended drawing A1-Kasama Substation Layout_REV01_30062026

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				3. Fencing and gate works sectional drawing , including dimensions and construction details 4. Equipment structures and foundations 5. Gantry structures and foundations 6. Existing drainage layouts and sections 7. Existing cable trench layouts and sections	
41.	4.2.19.1	Price Schedules	N	Kasama SCHEDULE 4_ CL.4.2.19.1. We request you to kindly share the details of the existing foundation within the scoped area to facilitate demolition planning and execution.	Note that works are away from existing foundations and there will be no demolition of any foundations. Scope of civil works at Kasama SS shall be as Section IV 11.1.15-11.1.24
42.	4.2.19.6	Price Schedules	Y	Kasama SCHEDULE 4_ CL.4.2.19.6. Kindly provide the existing Cable Trench layout and sectional drawing of the cable trench connected to the project scope for integration and modification planning.	Information provided is considered sufficient for bidding purposes Note that the new control cable trenches for new equipment will follow ZESCO standards in <i>S5ZESCO Civil Works Specification SP-CSS-001 Section 14.2.4</i> and this will be sufficient for bidding purposes along with amended drawing A1-Kasama

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					<i>Substation Lay-out_REV01_30062026 (PP-ZTIP-P04-ODSS-E102). Existing sizes are stated as CH1: 1100mm x 1000mm; CH2: 800mm x 880mm; CH3: 400mm x 400mm</i>
43.	4.2.19.12 11.1.15	Price Schedules Employer's Requirements	Y	Kasama SCHEDULE 4_ CL.4.2.19.12. As per Clause No. 11.1.15, Civil Work, "Improvement and extension of substation drainage system", please provide the existing drainage network layout and sectional drawings of the drain connected to the project scope for integration and modification planning.	Information provided is considered sufficient for bidding purposes. Refer to RFC 42 and <i>A1-Kasama Substation Lay-out_REV01_30062026 (PP-ZTIP-P04-ODSS-E102)</i> for cable trenches related to drainage
44.	4.2.19.17	Price Schedules	N	Kasama SCHEDULE 4_ CL.4.2.19.17. Please provide the sectional drawing of oil dam construction.	This shall be the responsibility of the bidder using information provided for bidding purposes
45.	4.2.19.19	Price Schedules	Y	Kasama SCHEDULE 4_ CL.4.2.19.19. Please provide the details and drawings for the control room building works at the Kasama substation.	Refer to RFC 5 and Addendum 3 S.No 1

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Additionally, please clarify the specific modifications required for this building.	
46.	4.2.19.18	Price Schedules	Y	Kasama SCHEDULE 4_ CL.4.2.19.18. Please provide the drawings of *the existing water tank, including its dimensions and construction details. Additionally, provide the tank's capacity and its exact location within the substation layout.	Refer to Addendum 3 S.No 8 issued to revised Section VII 11.1.24 "The existing water tank complete with the tank stand shall be decommissioned and handled over to ZESCO. There shall be a new 10000litre tank, tank stand and accessories for a fully working water re-tiltulation that shall be suitable located off the alignment of the double circuit Nakonde line." Addendum 3 S.No 9 issued for addition of amended P-Water Tank Stand Detail 1 REV00 30062026 drawing
47.			N	Nakonde – Rainfall Data Kindly provide the rainfall intensity data for the existing substation area to assess drainage and foundation design considerations.	Rainfall intensity as given in Section VII 3.6, Table 3-1 General Climatic conditions in Project area and Guaranteed

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					Technical Schedules 0.1 Climatic Conditions apply to Nakonde SS area
48.	4.1.19.4.2	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.4.2. Please provide the sectional drawings of the cable trench, including dimensions and construction details.	Information provided is considered sufficient for bidding purposes Note that the new control cable trenches for new equipment will follow ZESCO standards in <i>S5ZESCO Civil Works Specification SP-CSS-001 Section 14.2.4</i> and this will be sufficient for bidding purposes along with amended drawing <i>PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026</i> . Dimensions are specified in the legend of the drawing. Refer to RFC 43
49.	4.1.19.4.3	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.3. Please furnish the route of the internal road, clearly marked on the topographic map. Additionally, pro-	Information provided in <i>PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026</i> and <i>Section VII 12.25.59</i> is sufficient for bidding purposes.

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				vide the road sectional drawings and detailed technical specifications to assess realignment requirements.	
50.	4.1.19.4.8	Price Schedules	N	Nakonde SCHEDULE 4_ CL.4.1.19.4.8. Please provide the existing drainage network layout and sectional drawings of the drain connected to the project scope for integration and modification planning.	Note that Nakonde is a green-field substation and there is no existing drainage network
51.	4.1.19.4.12	Price Schedules	N	Nakonde SCHEDULE 4_ CL.4.1.19.4.12. Please provide the sectional drawing of oil dam construction.	Refer to RFC 44
52.	4.1.19.5	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.5. Please provide the sectional drawings of the fencing and gate, including dimensions and construction details. Additionally, please clarify the requirements for the substation security fencing, substation safety fencing, and property boundary fencing.	Refer to <i>PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026</i> (legend of the drawing), <i>PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026</i> (legend of the drawing) and <i>S5_ZESCO Civil Works Specification SP-CSS-001 – 14.4</i> for further details

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
53.	4.1.19.7.1	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.7.1. The layout of the Nakonde substation provided in the tender document does not show the room arrangement or the size of the building. Kindly provide detailed elevation, architectural, structural, and MEP drawings of the control room building along with detailed technical specifications, including but not limited to building configuration, floor levels, elevations, finishes, loading criteria, and applicable standards.	An addendum No 3 S.No 9 shall be issued to add the drawing G-PP-ZTIP-P04-ODSS-C101-Nakonde Stepdown Control Building (Ground Floor Plan) _REV00_30062026. However, the floor plan is only intended to provide the overall building dimensions and expected room arrangement/ configuration. Detailed architectural and engineering drawings shall not be provided, as the successful bidder will be required to design and detail the various building elements in line with the Employer's Requirements.
54.	4.1.19.7.2	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.7.2. As per the layout of the Nakonde substation provided in the tender document, only one (1) guard house is shown. However, Price Schedule 4, Clause No. 4.1.19.7.2, lists two (2) guard houses. Kindly	Note that the other guard house is at the other entrance to the substation. Addendum 3 No 4 shall be issued where guard house is added to PP-ZTIP-P04-ODSS-C109_Nakonde SS_GA_R00_30062026

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				clarify the correct quantity required for the project scope.	
55.	4.1.19.3.6	Price Schedules	N	Nakonde SCHEDULE 4_ CL.4.1.19.3.6. As per the layout of the Nakonde substation provided in the tender document, a spillway is shown. Kindly provide the detailed technical specifications and sectional drawings for this spillway.	Nakonde is a greenfield substation therefore the bidders shall design the drainage system based on the provided general arrangement drawing and topographic maps
56.	4.1.19.1.7	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.1.7. As per the layout of the Nakonde substation provided in the tender document, a retaining wall is shown. Please provide the detailed technical specifications and sectional drawings for this retaining wall. Additionally, please clarify if stone pitching is acceptable in place of the retaining wall. If it is acceptable, kindly provide the technical specifications and drawings for the stone pitching.	Addendum 3 S.No 9 issued to provide drawing Retaining wall cross section drawing_ REV00_30062026 showing a typical cross section drawing of a retaining wall. Retaining wall is 8-10m high running the full length of the substation Stone pitching is not acceptable in place of retaining wall.
57.	4.1.19.1.1	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.1. As per the price schedule, the bush clearing area is given as 500,000 m². Kindly confirm if the area pro-	Refer to added drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026. Addendum 3 S.No 5 issued to amend

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				vided in the price schedule should be used for earth-work estimations, such as bush clearing, vegetation removal, topsoil removal, rubble/rock outcrop excavation, and cut-and-fill quantity calculations.	Price Schedule item 4.1.19.1.1 to 160000m ² The active areas (substation switchyard, access roads and substation housing complex, external fencing) shall undergo vegetation removal, topsoil removal, rubble/rock outcrop excavation, and cut-and-fill quantity calculations.
58.	4.1.19.1.5	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.1.5. As per the price schedule, kindly clarify the requirements and specifications for the 'Import material - G5 Gravel'.	An addendum 3 S.No 9 issued to include Gravel Classification System for reference purposes only. G5 Gravel has been defined in the attachment
59.	4.1.19.4.14 4.1.19.4.15	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.4.14. and SCHEDULE 4_ CL.4.1.19.4.15. As per the price schedule, please provide the detailed technical specification and sectional drawings for the bund wall with a rectangular galvanized steel grid.	An addendum 3 S.No 11 issued to include steel grating specifications in SECTION VII 11.2.25 Refer to SECTION VII 11.2.25 for Bund area sizing

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
60.	4.1.19.7.3	Price Schedules	N	Nakonde SCHEDULE 4_ CL.4.1.19.7.3. As per the price schedule, please provide the detailed technical specifications and sectional drawings for the diesel generator shelter.	Refer to drawing I-330 kV Nakonde Stepdown Substation Generator House
61.	4.1.19.7.4	Price Schedules	Y	Nakonde SCHEDULE 4_ CL.4.1.19.7.4. As per the price schedule, please provide the detailed technical specifications and sectional drawings for the oil drum shelter.	Addendum 3 S.No 9 issued to include drawing Oil Drum Shelter General Arrangement_REV00_30062026
62.	4.1.19.3.4	Price Schedules	N	Nakonde SCHEDULE 4_ CL.4.1.19.3.4. Regarding the price schedule item '- External access road (from gate 02 to proposed asphalt road, via staff housing area)', please confirm if the staff housing is within the bidder's scope of work. If it is within the scope, note that the corresponding line item is missing from the price schedule.	Refer to Price Schedule item 4.0.4 to 4.0.4.7 for the supply and installation costs for the substation housing
63.			Y	Nakonde substation layout As per the layout of the Nakonde substation, please provide the technical specifications and detailed drawings for the valve room building.	Refer to RFC 53 and addendum No 3 S.No 9

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
64.	2.2	Section X – Contract Agreement 2.2 and Appendix 1 – Terms of Payment	N	Terms of Payment Please confirm whether the payment is made through T/T or L/C?	Payments shall be made by T/T to the Contractor's account
65.	7.1	Instructions to Bidders	Y	ITB 7.1 Clarification Please confirm clarification shall be submitted no later than 14 days before the bid deadline instead of 28 days, since the site visit hasn't conducted.	The requirement of 28 days shall stand. The clarifications shall be submitted no later than 20 June 2026. Refer to Addendum 3 S.No. 12.
66.	17	Instructions to Bidders	N	Customs duties and taxes This project adopts the CIP delivery term, thus Price schedule 1 excludes customs duties and VAT. Please confirm whether our quotations for Schedule 3: Design Services and Schedule 4: Installation and Other Services include VAT or not.	Refer to RFC 16
67.			N	Allowance Does the daily allowance for training and FAT need to be considered by the contractor? If it is needed, please provide the rate for per day.	No, it does not include daily allowance for training and FAT. The requirement as per Section VII 14.1 shall stand: <i>The Contractor shall also include in the price for the attendance by three (3)</i>

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					<i>Employers representatives and one (1) Engineers representative (for each piece or set of equipment) to witness the tests, which shall include where required:</i> - <i>Local transportation and associated testing facilities/attendance cost.</i>
68.	PCC 30	Particular Conditions of Contract	N	PCC 30. Limitation of Liability We kindly request to revise this clause to the following: The multiplier of the Contract Price is: One (1).	The requirement stated in PCC 30 shall not be revised.
69.	3	Section X – Contract Agreement	N	Contract Agreement-Article 3 Effective Date Please add the following two conditions for effective date 1) All necessary license, permits for execution of the Works have been obtained by the Employer.	The Employer shall ensure that any permits and site handover required for the facility are done expeditiously. Therefore, the addition shall not be considered.

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				2) The right of way and the Site have been fully handed over to the Contractor by the Employer.	
70.	1.1.12.14 1.1.12.15	Price Schedules	N	Price Schedules – Package 4_Section 4 - Sch 1 Materials Do the protection systems referred to in 1.1.12.14 and 1.1.12.15 refer to the protection systems for the two 132 kV lines?	Confirmed. Note that the two 132 (66) kV lines are Nakonde - Nakonde line and Nakonde – Isoka line
71.	12.19.5.1	Employer's Requirements	N	Part2-Employer's Requirement-12.19.5.1 12.19.5.1 The General Provisions for Relay Protection state that the measurement and control unit (BCU) and the primary protection unit 1 should be housed in a single cabinet; is this a mandatory requirement? The measurement and control unit is generally housed in a separate cabinet.	Confirmed. The requirement in Section VII 12.19.5.1 shall stand and is mandatory. Each panel per bay shall consist of Main 1 protection, Main 2 protection, back up protection and BCU.
72.	11.1.17 12.2.1	Employer's Requirements S5_ZESCO Civil Works Specification SP-CSS-001.pdf	N	Part2-Employer's Requirement-11.1.17 sanitary installations, etc ZESCO Civil Works Specification-12.2.1 Domestic Cold Water and Plumbing Please specify whether PPR pipe or PVC pressure pipe is used for the water supply pipe.	For the sanitary installations, the requirement of Section VII 11.1.17 shall stand: "Concealed piping using class 16 uPVC pipes for drainage and copper or PPR pipes for water supply "
73.	11.1.24	Employer's Requirements	Y	Part2-Employer's Requirement-11.1.24 Relocation of the Water tank	The requirement in Section VII 11.1.24 and amended drawing

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	12.2.1	S5_ZESCO Civil Works Specification SP-CSS-001.pdf		ZESCO Civil Works Specification-12.2.1 Domestic Cold Water and Plumbing Please clarify whether the domestic water tank should be an underground water tank combined with booster pump or a high-level water tank.	P-Water Tank Stand Detail 1 indicate that this is a high-level water tank (with tank stand) Refer to RFC 46
74.	11.2.25	Employer's Requirements	N	Part2-Employer's Requirement-11.2.25 Civil Works The capacity of the oil dam shall only accommodate 120% of the maximum oil quantity of the connected single transformer, reactor bank or neutral reactor (NR), rather than the combined total oil volume of all connected equipment.	The requirement in Section VII 11.2.25 "the oil dam shall be sized to retain 120% of the combined oil volume of the connected transformer/reactor bank/NR combined oil volume" (refer to Drawing No. NAK-R003-130).
75.		Technical Schedules	Y	TDS of 132kV Equipment In the General section of TDS, Main Design Data 132(66) kV, 2000 m.a.s.l, the rated short time current of 132kV equipment is 31.5 kA for 3s, while in the Particular section, it is 40 kA for 3 s. Please confirm which shall prevail.	An addendum No 3 S.No 3 shall be issued to conform the value of rated short time current of 132kV equipment to 31.5 kA for 3s in the Technical Schedules
76.	2.7.15	Technical Schedules	Y	TDS of 330kV CVT 2.7.15 Voltage factor (continuous / 30sec)	An addendum No 3 S.No 3 shall be issued to amend the factor from 1.2/1.9 to 1.2/1.5 for the 330kV CVT

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				We understand the Voltage factor (continuous/30 sec) shall be 1.2/1.5, instead of 1.2/1.9, please confirm.	
77.	3.5	Technical Schedules	N	TDS of 132(66) kV CVT For 132(66) kV CVT, whether it can be designed with an insulation level of 132 kV and rated voltage of 66 kV?	The LIWL and SIWL shall be as described in Guaranteed Technical Schedules section 0.3. The CVT rated voltage shall be interchangeable between 66kV and 132kV.
78.	2.1.29	Technical Schedules	Y	TDS of 330kV Circuit Breaker 2.1.29 Switching resistor Please confirm which line bay need to be equipped with switching resistor for 330kV Circuit Breaker.	Switching resistor shall not be applicable. An addendum 3 S.No 3 shall be issued by deletion of item 2.1.29 of the Technical Schedules
79.		Technical Schedules	Y	TDS of 33kV Surge Arrester Please provide the TDS of 33kV Surge Arrester	Refer to RFC 24 and addendum No 3 S.No 3 <i>[We assume it is the 36kV Surge Arrester]</i>
80.	ITB 23.1	Bid Data Sheet	Y	Extention of tender submission deadline Our technical team need more time to conduct detailed design after site visit, please kindly extend one month of the tender submission deadline to allow us	Refer to addendum 3 S.No 12.

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				sufficient time to finalize our proposal and ensure full compliance with tender requirement.	
81.		Employer's Requirements	N	PART 2 - Employer's Requirements It is shown that the contractor shall provide water and electricity for the site in this part, but how to connect with municipal water and electricity is not shown, please clarify.	Note that for Nakonde SS, the requirements in Section VII 11.2.25 shall stand and apply: <i>"Drill and equip a borehole for fresh water of acceptable quality and flow, and in accordance with the Water Resources Management Authority (WARMA) requirements"</i>
82.	ITB 23.1	Bid Data Sheet	Y	Section II – Bid Data Sheet, ITB 23.1 The deadline for Bid submission is 26 June 2026 shown in ITB 23.1, considering the requirements of "Note that all the above documents need to be in English or translated to English by an authorized and notarized agent." shown in Section III – Evaluation and Qualification Criteria. The bidders need more than one month to finish the authorized and notarized document, kindly apply the extension of additional one month for bid submission.	Refer to RFC 1 and addendum No 3 S.No 12
83.	ITB 18.1	Bid Data Sheet	N	Section II – Bid Data Sheet, ITB 18.1	The requirement in ITB 18.2 shall apply and be used

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				For expenses incurred outside the employer's country, may the bidder choose one or more of the following currencies for quotation: USD, EURO, CNY	
84.	GCC 11.2 PCC 11.2 CA - Appendix 2	Section VIII – General Conditions of Contract; Section IX - Particular Conditions of Contract; Section X - Contract Forms	N	Section VIII – General Conditions of Contract; Section IX - Particular Conditions of Contract; Section X - Contract Forms According to GCC11.2, PCC11.2, and Appendix 2: Price Adjustment, the bidder understands the contract price shall be Lump Sum with price adjustment, please clarify this understanding is correct or not.	The price adjustment shall be as per provisions of Appendix 2 and shall not be altered
85.	17	Employer's Requirements Drawings	Y	17 Drawings of Section VII – Employer's Requirements There is no Secondary Electrical / Rely & Protection Setting Drawings for Nakonde and Kasama S/S Please provide the Secondary Electrical / Rely & Protection Setting Drawing and the Substation Automation Drawing of the existing Kasama S/S for the Contractor to evaluate the interfacing issue and to select the right brand of the equipment to merge it to the old system. Please provide the Secondary Electrical / Rely & Protection Setting Drawing of the new Nakonde for	Refer to RFC 29 and 31 An addendum 3 S.No 9 shall be issued for attachment of the Kasama Substation System Architecture_ AsBuilt_20102015. For Nakonde SS, the information provided is considered sufficient for bidding purposes

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				the contractor to prepare its offer of secondary electric equipment in line with employer's intention.	
86.	12.11.8	Employer's Requirements	N	Section VII – Employer's Requirements 12.11.8 Capacitor Voltage Transformers (CVT) and Voltage Transformers (VT) For the Nakonde's (132)66 kV system, the 132 kV switchgear will be charged with 66 kV initially. Voltage transformers/CVTs associated with the 132 kV yard shall be suitable for 66 kV initial energization and shall be interconnectable between $132/\sqrt{3}$ kV and $66/\sqrt{3}$ kV (phase-to-ground), unless otherwise specified. this is impossible for CVT products. If a 132 kV device is used in a lower 66 kV system, the secondary voltage will be significantly lower, resulting in inaccurate measurements and rendering it unusable. Please clarify this requirement.	The requirement in 12.11.8 will stand. Note that this is possible for a modified dual winding CVT that will have built-in ratio matching links.
87.	4.1	Technical Schedules	Y	4.1. Power Transformer 330/132(66)/11 kV of 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS of Section VII – Employer's Requirements Insulation levels (prim/sec/tert) (not corrected for altitude):	An addendum No 3 S.No 3 shall be issued to include the insulation levels of HV neutral and MV neutral points.

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				- Power frequency withstand voltage (phase and neutral) 570/275/28kV - Lightning impulse level (lines and neutral) 1300/650/95kV The insulation levels specified in the technical schedule is the same at the line and neutral point. Please clarify whether the transformer request is a fully-insulated transformer or not. If not, please specify the insulation levels of the HV neutral point and MV neutral point.	The transformer is not fully insulated. The insulation level at the neutral point is graded as follows; Power frequency withstand voltage HV-neutral = 85kV MV-neutral = 140kV Lightning impulse levels HV-neutral = 185kV MV-neutral = 325kV
88.	4.1.27	Technical Schedules	N	4.1. Power Transformer 330/132(66)/11 kV of 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS of Section VII – Employer's Requirements 4.1.27 Tap changer make MR Germany or comparable vacuum type How to define "Comparable"? Because based on our understanding, we believe the Chinese Tap	The requirement in GTS item 4.1.27 shall be used in conjunction with the requirement in Section VII 12.12.8: <i>"On-load tap changer shall be provided on the HV winding. Tap changer of make MR-Germany or equivalent meeting IEC"</i>

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				charge is comparable to the same from MR Germany, however, you may not be able to accept it or you have different view on that. Please clarify whether you just want OLTC from MR Germany, vacuum type not other type, or other brand as long as it can meet the technical requirement can be used.	60214 requirements is preferred"
89.	0.1 3.6	Technical Schedules Employer's Requirements	Y	0.1. Climatic Conditions of 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS of Section VII – Employer's Requirements & 3.6 Climatic Conditions of Section VII – Employer's Requirements In 0.1. Climatic Conditions of 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS, it states "Seismic hazard (Mercalli Scale) is VI to VII (Strong-Very Strong". In 3.6 Climatic Conditions, it states "Seismic zone is Strong to Very strong". For the design of power transformers and other primary electrical equipment, qualitative descriptions such as Strong/Very Strong seismic ground acceleration, or designation of Modified Mercalli Intensity VI ~VII, are not acceptable as design inputs. Equipment manufacturers require the Employer to provide specific peak ground acceleration (PGA) values for design.	Refer to issued addendum 3 S.No 8 for inclusion of the proposed PGA The Modified Mercalli Intensity VI~VII is equivalent to PGA range of ≈ 0.1 g to 0.4 g. Therefore, The PGA of 0.3 g is proposed.

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				It is understood that the PGA corresponding to Modified Mercalli Intensity VI~VII is taken as 1.0g. Please confirm whether the transformer can be designed based on this value.	
90.	12.12.18	Employer's Requirements	N	12.12.18 Design of Section VII – Employer's Requirements "The radiators shall be of the DIN type or equivalent, hot-dip galvanized provided with at least six cooling channels in each radiator fin." According to the Employer's Requirements, the radiator shall be hot-dip galvanized. We would like to know whether paint coating can be adopted as the corrosion protection for transformer radiators, the same as for the transformer main tank. Please clarify.	The corrosion protection for the transformer radiators shall be as specified in the Section VII subsection 12.12.18. The radiators are specified to be DIN type or equivalent, hot-dip galvanized and painted same colour as the transformer main tank.
91.			N	Table 3: Minimum Criteria of Major Equipment of 1.4 Subcontractors / Manufacturers of Section III – Evaluation and Qualification Criteria & 7.5.3 Type Tests of Section VII – Employer's Requirements In Table 3 : Minimum Criteria of Major Equipment, only Circuit Breakers, Transformers and Reactors request: "If type-test reports are older than 8 years, the bidder shall perform selected confirmatory type	Type test certificates shall be submitted with Bid as requested for in Table 3: Minimum Criteria of Major Equipment of 1.4 Subcontractors / Manufacturers of Section III – Evaluation and Qualification Criteria

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				tests on a representative production unit to re-validate critical performance parameters at an ISO/IEC 17025 accredited laboratory. The representative unit shall be of the same model family, rating, and internal design as the originally type-tested unit. Test items and acceptance criteria shall comply with the relevant IEC standards." For 330kV Post & Disc Insulators, Surge Arrester, Instrument Transformers, Disconnect Switch, the type-test report shall not be older than 8 years is not requested. However, in 7.5.3 Type Tests of Section VII Employer's Requirement, it states: "The substation equipment (transformers, reactors, circuit breakers, CTs, VTs, SAS, metering, protection, WAMPACS relays and telecommunication equipment) offered for and supplied under this Contract shall be type tested. Bidders shall enclose in his Bid Type Test Certificates separately for each such main component and equipment offered." and "The Bidder shall enclose in his Bid the reports for all type tests and additional type tests certificates as per technical specification along with equipment / material drawings separately for each such main component and equipment offered. The type tests conducted earlier should have been conducted in accredited laboratory based on ISO / IEC Guide 25 / 17025 and the test reports submitted shall be of the tests conducted within last 8	

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				(eight) years prior to the date of bid opening (unless specially agreed with the purchaser)." We would like to know whether only Circuit Breaker, Transformer and Reactor shall comply with the requirement that the type test report shall be no older than 8 years, or other primary electric equipment "330kV Post & Disc Insulators, Surge Arrester, Instrument Transformers, Disconnect Switch" shall comply with the requirement that the type test report shall be no older than 8 years as well? Please clarify.	
92.			N	Package 4 Price Schedules - Schedule 1 1.1.15.6 330kV transformer spares: 1.1.15.6.1 330kV bushing 1 Each 1.1.15.6.2 Neutral bushing 2 Each 1.1.15.6.3 Dehydrating breathers 2 Each 1.1.15.6.4 Buchholz relays 2 Each 1.1.15.6.5 Oil level indicator 2 Each What does "Each" mean? Because for this project, there are two 330kV Transformers. Does it mean to provide transformer spares 1 piece for each transformer, or just 1 330kV spare bushing for all transformers, just take 330kV bushing as an example?	The requirement of "Each" shall be referred to with Section VII 12.12.55 showing the complete number of spares i.e. number of items only. Therefore, there shall be only one (01) 330kV bushing.

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				Please clarify.	
93.		Section X – Contract Agreement – Appendix 2	N	Appendix 2 – Price Adjustment Prices payable to the Contractor, in accordance with the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of material components, in accordance with the following formula: The material and equipment indices may consist of several components, however for this contract the following material shall be comprised without alteration: Cement, Aggregate, Aluminium, Steel, Reinforcing Steel, Steel Structure, Fuel, Copper , Transformer and Reactor Core material. The formula adjustment only specifies the percentage of fixed elements. Please clarify how to determine the percentage of other materials.	The price adjustment applies only to the components listed in Appendix 2 and no alternative formula, additional components or indices may be proposed. Note that information provided in Appendix 2 Price Adjustment is detailed and provides how the percentage coefficients for the listed material components are to be determined; The bidder shall provide the coefficients b, c, d, e, f, g, h, k and m in its Bid based on its price breakdown and the coefficients a-m shall add up to 100%. 'a' shall be 15%
94.	ITB 23.1	Bid Data Sheet	Y	Due to the technical complexity of the project, together with the time required for coordination with manufacturers and collection of detailed technical documentation and supporting materials, we request	Refer to RFC 1 and addendum No 3 S.No 12

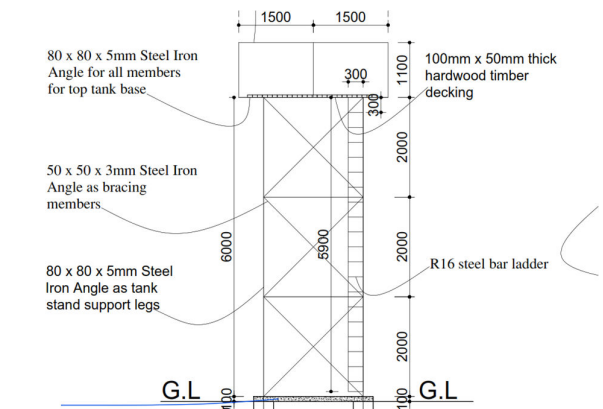
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				for another one-month extension from the current 26th June, 2026 to 26th July, 2026 to allow us to adequately prepare a comprehensive and fully responsive bid submission.	
95.	Table 7: Qualification (4) – Experience	Section III - Evaluation and Qualification Criteria	N	Clause 4.2(a) – Specific Experience states that: “The similarity of the contracts shall be based on the following: 1) 330kV (minimum) new (greenfield) substation with at least two transformers of 330kV or above; and 2) At least two 330kV or above line bays with associated line reactors.” We kindly request clarification as to whether the above two requirements may be satisfied through two separate contracts. In other words, can the requirement for the 330kV (minimum) greenfield substation be demonstrated under one contract, while the requirement for at least two 330kV or above line bays with associated line reactors is demonstrated under another contract?	All the requirements have to be all demonstrated under one contract.
96.	PART 2 – EMPLOYER'S REQUIREMENTS	Geological Investigation Report Document number :S1_Geotechnical Report Nakonde Stepdown	Y	The Substation co-ordinates are not provided in WGS 84 datum. Please provide the co-ordinates in WGS 84 datum for plotting in Google earth or share the KMZ file.	An addendum 3 S.No 9 shall be issued to add the Nakonde Site Plan (PP-ZTIP-P04-ODSS-C108_Nakonde Site

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					Plan_R00_30062026) with co-ordinates in WGS 84 datum. Further refer to S10 ESMP Appendices, Appendix 2-1 for substations coordinates in ARC 1950
97.	PART 2 – EMPLOYER'S REQUIREMENTS	S3_330 kV Nakonde Stepdown Substation Topographic Map 1 S4_330 kV Nakonde Stepdown Substation Topographic Map 2	Y	In provided Topography Survey contour drawing only elevations are provided however coordinates are not provided . Kindly provide at least 4 corner points with coordinates in WGS 84 datum for reference purpose and setting the plan to coordinates.	Refer to RFC 96 and addendum 3 S.No 9. Reference to be made to drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 and control point on topographic map for superimposition
98.	PART 2 – EMPLOYER'S REQUIREMENTS	S3_330 kV Nakonde Stepdown Substation Topographic Map 1	Y	In provided Topography Survey contour drawing . Substation plot location is not shown . Please Kindly Provide the substation Location along with coordinates in the topographic drawing .	Refer to RFC 96 & 97 and addendum No 3 S.No 9
99.	PART 2 – EMPLOYER'S REQUIREMENTS	S4_330 kV Nakonde Stepdown Substation Topographic Map 2	Y	We understand that the site clearing work to be done for the actual substation occupied area(310 X 250) and not for the entire plot (500 x 1000). Kindly confirm.	Note that the requirement for bush clearing in section IV Price Schedule item 4.1.19.1.1 shall stand.



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S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				- Construction of two (2) new Guard Houses at the entrance gates at the perimeter fence (500m by 1000m); Substation fencing shall be designed, supplied and installed, complete with gates (both fixed and removable, where appropriate) for the following: - Substation Land Extents – Boundary/ Perimeter fencing (500m x 1000m) - Substation Perimeter – Security fencing (310m x 250m) - Terrace Boundaries – Safety fencing (refer to Site Layout) - Identify, and where necessary, relocate any buried services or facilities so as to	Refer to RFC 57
100.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII 11.2.25	Y	We understand that the land development, including terracing, levelling, and compaction, will be done for the actual substation occupied area 310m X 250m and not for the entire plot. 500 m X 1000m Kindly confirm. - Construction of two (2) new Guard Houses at the entrance gates at the perimeter fence (500m by 1000m); Substation fencing shall be designed, supplied and installed, complete with gates (both fixed and removable, where appropriate) for the following: - Substation Land Extents – Boundary/ Perimeter fencing (500m x 1000m) - Substation Perimeter – Security fencing (310m x 250m) - Terrace Boundaries – Safety fencing (refer to Site Layout) - Identify, and where necessary, relocate any buried services or facilities so as to	Note that the entire substation plot contains the substation area and the housing area. Hence, the work area shall be as given in Section VII 11.2.25. Refer to RFC 57
101.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII 11.2.25	Y	Employer's Requirements Package 4 it has been mentioned to use the Reinforced concrete retaining wall however as per the "F-330 kV Nakonde Stepdown Substation Terracing" it has been mentioned to use the 8 m high gabion wall. Kindly confirm the type of walls to be used area), Design and construction of reinforced concrete cantilever retaining wall to partition the upper and lower terraces, which shall span the entire length of the substation. Retaining wall shall be designed to sustain surcharge loading due to the passage of heavily loaded vehicles (i.e. during transformer/ reactor transportation).	An addendum No 3 S.No 10 shall be issued to amend F-330 kV Nakonde Stepdown Substation Terracing to use the reinforced concrete retaining wall as per Section VII Refer to RFC 56.

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				difference between the surrounding and the substation. The high difference between the two terraces is about 8m and shall consist of a gabion sloped wall with built-in stairs.	
102.	PART 2 – EMPLOYER'S REQUIREMENTS	Drawing No: P-Water Tank Stand Detail 1	Y	We understand that the member sizes provided in the tender drawings is for indication only. Actual member sizes can be optimised, meeting all the design requirement kindly conform. 	Refer to issued addendum 3 S.No 9 for addition of amended P-Water Tank Stand Detail 1 REV00 30062026 drawing. Bidders shall optimise the design to meet the loading requirements for the specified Tank sizes.
103.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII 11.2.25 J_330 kV Nakonde Stepdown Substation House 150 m2	N	AS per SOW total 6 no of houses(3 no's 150sqm and 3 no's type B) are to be provided. However in price schedule there is no line items for these building.	Refer to RFC 62



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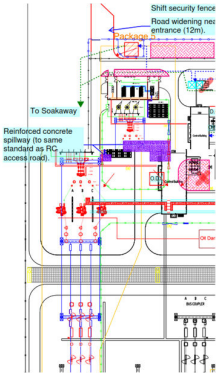
S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
		K_330 kV Nakonde Stepdown Substation House Type B		Please conform cost of these building to be considered in which line items. • Critical areas such as control room, server room, battery room, etc. 11.2.25 Civil Works • The Package 4 consist of the greenfield 330/(132)66/11kV Substation including control building and six houses (Three (03) 150 m2 and Three (03) Type B) for operators.	
104.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	We understand that the BS EN Code can be used for the design of concrete and steel. Kindly confirm.	The standards applicable shall be as specified in Section VII Subsection 12.2. 12.24.1 Structural steel shall conform to the latest editions of Eurocode 3, ISO 10721, ISO 1461 or other equivalent standard. For the design of steel, the specification in Section IV 12.24.7 shall stand: " <i>The equipment/material covered by this specification shall unless otherwise</i>

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					<i>stated be designed, constructed and tested in accordance with ISO 10721 and ISO 17607-1:2023."</i> For the design of concrete, the requirements in Section VII 12.25.28 - 12.25.33 shall stand Any other equivalent standards shall be only to the approval of employer/engineer
105.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	Supporting Structure for the overhead electrical lines ,EN 50341-1-2012 can be used for steel structure design. Please confirm.	Refer to RFC 104
106.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII 11.2.25 Control Room Building	Y	Please conform the type of the roof of the control room building. That is concrete or wooden truss with steel sheets. Kindly conform	An addendum 3 S.No 11 is-sued to include following text under SECTION VII 11.2.25: "The roof structure shall be comprised of the following:

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					- Reinforced concrete roof slab (2-hour fire rating) - Gable roof supported by steel trusses including 0.6mm IBR roof sheet cladding"
107.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	We understand that all support structures of Equipment in the substation are of the lattice type. Kindly confirm.	Confirmed. All steel structures will be of lattice type
108.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	We understand that all gantry Towers and beams in the substation are of the lattice type. Kindly confirm.	Confirmed. All steel structures will be of lattice type
109.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	We assume that for package-5, we only have to provide space allocation. No foundation or structure construction shall be done for Package-5 area. Please confirm.	Confirmed. No foundation or structure construction shall be done for Package-5 bay area. Refer to Section VII 11.2. Bus bar shall however extend to the Package 5 area.



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110.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	Package-5 marked on the layout, we can see following works are shown 1. 300mm thick RCC Spillway 2. Paving Bricks 3. STATCOM Building 4. Fence 5. RCC Cantilever Retaining Wall Please confirm that these are not in the scope.	Confirmed. Note that Package 5 scope is not in Package 4 scope. Refer to Section VII 11.2 for scope of works at Nakonde SS



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111.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	Please conform the proposed FGL to be considered for new substation .	Kasama substation shall use existing FGL At Nakonde greenfield substation FGL shall be based on the outcome of the detailed topographic survey and the contractor's earthwork design in line with information provided in Section VII 11.2.25

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112.	PART 2 – EMPLOYER'S REQUIREMENTS	Drawings & Technical Datasheet	Y	Please confirm the short-circuit current rating for 330kV circuit breaker is 50kA, 3sec (as specified in the SLD) or 40kA, 3sec (as specified in the TDS).	Refer to RFC 19 and addendum No 3 S.No 2
113.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements	N	Please provide the location 33kV double pole auxiliary transformer	Information provided in Section VII Subsection 11.2.25 is deemed sufficient for bidding purposes. There is an existing 33kV line adjacent to the housing compound from which the line shall be tee-off (with Transformer at or near the T-off)
114.	PART 2 – EMPLOYER'S REQUIREMENTS	Price Schedule & Technical Datasheet	Y	As per Price schedule - there is a requirement of 100KVA 33/0.4kV Transformer but as per" Technical Schedule 33/0.4 kV Housing Distribution Transformer", it is mention 200kV. We are considering 100kVA as per price schedule. Please confirm	The capacity and voltage rating of the pole mounted transformer shall be 100KVA 33/0.4kV as specified Section VII subsection 11.2.25 and Price Schedules An addendum No 3 S.No 3 shall be issued to amend GTS item 11.4.8 to 100kVA
115.	PART 2 – EMPLOYER'S	Section VII – Employer's Requirements	N	As per IEC 60815 (Selection and dimensioning of high-voltage insulators for polluted conditions), the	Note that as per Section VII 2.8.1, the USCD characterizing the site severity is very heavy

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE																				
	REQUIREMENTS			Unified Specific Creepage Distance (USCD) for very heavy pollution (Class E) is specified as: USCD = 31 mm/kV (based on highest system voltage, Um) Accordingly, the minimum required creepage distances for the specified system voltage levels are calculated as follows: <table><thead><tr><th>System Voltage Level</th><th>Highest System Voltage (Um)</th><th>USCD (mm/kV)</th><th>Minimum Creepage Distance (mm)</th></tr></thead><tbody><tr><td>330 kV system</td><td>362 kV</td><td>31</td><td>11,222 mm</td></tr><tr><td>132 kV system</td><td>145 kV</td><td>31</td><td>4,495 mm</td></tr><tr><td>33 kV system</td><td>36 kV</td><td>31</td><td>1,116 mm</td></tr><tr><td>11 kV system</td><td>12 kV</td><td>31</td><td>372 mm</td></tr></tbody></table> We understand from IEC 60815 that creepage distance is determined based on pollution severity (USCD), and the value of 31 mm/kV is applicable for very heavy pollution environments, We request you to confirm that our understanding is correct & no need for high creepage value.	System Voltage Level	Highest System Voltage (Um)	USCD (mm/kV)	Minimum Creepage Distance (mm)	330 kV system	362 kV	31	11,222 mm	132 kV system	145 kV	31	4,495 mm	33 kV system	36 kV	31	1,116 mm	11 kV system	12 kV	31	372 mm	pollution and this class is associated with a Unified Specific Creepage Distance (USCD) of 53.7mm/kV which translates into a specific creepage distance (SCD) of 31mm/kV
System Voltage Level	Highest System Voltage (Um)	USCD (mm/kV)	Minimum Creepage Distance (mm)																						
330 kV system	362 kV	31	11,222 mm																						
132 kV system	145 kV	31	4,495 mm																						
33 kV system	36 kV	31	1,116 mm																						
11 kV system	12 kV	31	372 mm																						
116.	PART 2 – EMPLOYER'S REQUIREMENTS	General	Y	Please provide the section layout	Addendum 3 S.No 9 issued that includes drawing Existing Kasama SS Primary Equipment Section Drawing_As-Built_20102015																				

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
117.	PART 2 – EMPLOYER'S REQUIREMENTS	D-330 kV Nakonde Stepdown Substation SLD & C-NAK-330 kV Nakonde Stepdown Substation Layout	Y	Please confirm the quantity of Current Transformers (CTs) for the 330kV Bus Coupler Bay. As per the SLD, only one CT is shown, whereas the layout drawing indicates two CTs.	Refer to RFC 7 and addendum 3 S.No 4
118.	PART 2 – EMPLOYER'S REQUIREMENTS	D-330 kV Nakonde Stepdown Substation SLD & C-NAK-330 kV Nakonde Stepdown Substation Layout	Y	Please confirm the quantity of the 330kV Surge Arrestors mentioned in the price schedule, as it is not matching with the SLD and layout.	An addendum No 3 S.No 5 is issued to amend the number of Surge arresters in the Price Schedule.
119.	PART 2 – EMPLOYER'S REQUIREMENTS	D-330 kV Nakonde Stepdown Substation SLD & C-NAK-330 kV Nakonde Stepdown Substation Layout	Y	Please confirm the quantity of 330kV CVTs, as the quantities in the price schedule are not matching with the SLD and layout. Also, in the Busbar Reactor Bay, the CVT is not shown in the SLD but is indicated in the layout drawing.	An addendum 3 S.No 4 issued to add three (3) 330kV single phase Capacitive Voltage Transformers on the busbar reactor bay on the D-330 kV Nakonde Stepdown Substation SLD_REV02_17062026 An addendum No 3 S.No 5 is issued to amend the number of CVTs in the Price Schedule
120.	PART 2 – EMPLOYER'S	D-330 kV Nakonde Stepdown Substation SLD	Y	Please clarify the Busbar Reactor Bay arrangement, as the layout drawing is not matching with the SLD. Also, the quantity of Disconnectors shown in the layout appears to be less as per SLD.	Refer to RFC 3 and addendum No 3 S.No 4

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	REQUIREMENTS	& C-NAK-330 kV Nakonde Stepdown Substation Layout			
121.	PART 2 – EMPLOYER'S REQUIREMENTS	C-NAK-330 kV Nakonde Stepdown Substation Layout	N	Please provide the height of Gantry & Bus towers.	The height of gantries and equipment supports shall be based on the equipment clearances given under 2.8 Basic Electrical System Design of Employers Requirement Section VII
122.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements	N	Please provide the earthing resistivity for exact earthing calculation.	Information given in Section VII 12.23 and S1_Geotechnical Report Nakonde Stepdown is sufficient for bidding purposes
123.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements	Y	Please clarify the battery type for the 48V DC system. The data sheet specifies VRLA Gel type batteries (1200Ah), whereas the specifications mention Lithium batteries. Kindly confirm the correct battery type to be considered.	Addendum No 3 S.No 3 issued to amend GTS item 8.5.7 to specify Lithium batteries
124.	PART 1 – BIDDING PROCEDURES	Section III - Table 3: Minimum Criteria of Major Equipment	N	<i>"If type-test reports are older than 8 years, the Bidder shall perform selected confirmatory type tests on a representative production unit to re-validate critical</i>	The requirements as specified in Section III - Table 3: Minimum Criteria of Major Equipment shall stand for bidding

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				<i>performance parameters at an ISO/IEC 17025 accredited laboratory. The representative unit shall be of the same model family, rating, and internal design as the originally type-tested unit. Test items and acceptance criteria shall comply with the relevant IEC standards."</i> If there has been no change in the design, and also IEC standards do not suggest repeating type tests when the design remains the same, the existing reports are still valid. Therefore we suggest you to accept that similar type test report irrespective of the period of conducting of the type test. Please confirm. <i>or Please increase the period to 20 years. Please confirm.</i>	purposes, and no changes shall be done
125.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.8.12 Operating Mechanism and Control	N	The mechanism shall be housed in a weatherproof and dust-proof control cabinet (IP 56). Request you to please accept IP 55. Please confirm.	Requirement of IP56 shall stand.
126.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 132(66) kV Capacitive Voltage Transformers Interconnectable between $132/\sqrt{3}$ and $66/\sqrt{3}$	N	We can offer either 132kV or 66kV as the primary voltage. Please confirm. If not please clarify what interconnectivity is required.	Refer to RFC 86

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
127.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 3.6 Climatic Conditions	Y	Please specify the Seismic value for substation plot.	Refer to RFC 89
128.	General	General	N	Please clarify any weight limit for transporting transformers from Zambian road authority.	The Information on the transportation weight limits is provided for in Section VII 12.12.64 - 12.12.70.
129.	General	General	N	Please let us know when will the Package 5 works will start.	Information provided in Section VII 9.2 is sufficient for bidding purposes. The Package 5 works commencement dates is not yet ascertained.
130.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.12.47 Cables and auxiliary equipment	N	Please confirm The metallic screen fault current for HT cable	As per GTS item 7.1 and 7.1.31, the bidder should provide the short circuit current for the cable
131.	PART 2 – EMPLOYER'S	Section VII – Employer's Requirements, 12.12.47	N	Please confirm the Armour requirement for HT cable	The provisions of Section VII 12.12.47 shall stand: <i>"Only steel armouring of cables is not</i>

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	REQUIREMENTS	Cables and auxiliary equipment			<i>considered to be sufficient protection and is not acceptable"</i>
132.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.12.47 Cables and auxiliary equipment	Y	Please confirm the cable size for HT cable as per BOQ and attached GTP both size are different	An addendum No 3 S.No 3 is issued to amend GTS item 7.1.7 to reflect 70mm ²
133.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	As per attached specification for LV cable CI no 12.18.7 Customer mentioned Copper screening , But In the attached BOQ screening requirement not mentioned. Please confirm screening required or not if required then which size, please mention	Refer to Guaranteed technical schedule item 7.1.13 and 7.1.14 that indicates that the bidder shall provide
134.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	As per attached specification for LV cable CI no 12.18.7 Customer mentioned Insulation shall be Class A of IEC 60085 but in same specification cl no 12.18.5 customer mention dimension of insulation, Armour and outer sheath shall be as per IEC. Please confirm	Note that the requirements in Section VII 12.18.5 and 12.18.7 shall stand Note that 12.18.7 states: " <i>The cables shall have oil and moisture-proof insulation and, where the temperature exceeds that of ambient air, thermal characteristic insulation at least equal to class A of IEC 60085</i> "

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
135.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	Kindly note insulation CLASS A IEC 60085 Temperature is 105 deg . Generally For XLPE we considered 90 Deg. Please confirm Class A required or we offered cable as per IEC	Refer to RFC 134
136.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	There are 2 different type of specification attached for LV power and control cable As document Name Auxiliary power and control cable 2nd one is Power and control cable NIFPS. Both specification requirement is different Please confirm	Note that Section VII subsection 12.16 is for Substation Auxiliary Power Supply (11/0.4kV) while subsection 12.18 is for auxiliary power and control cables
137.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	As per attached BOQ control cable insulation, Conductor material and outer sheath material not mentioned. Please confirm the insulation, outer sheath material and cable class whether it's flexible or standard class 2.	Refer to GTS 7.1.21-7.1.23
138.	PART 2 – EMPLOYER'S REQUIREMENTS	Section VII – Employer's Requirements, 12.18 Technical Specification for Auxiliary Power- and Control Cables	N	Kindly confirm the armour requirement for power and control cable.	Refer to RFC131
139.	PART 2 – EMPLOYER'S	Section VII – Employer's Requirements, 12.18 Technical Specification for	N	Kindly provide the GTP for LV power and control cable.	Refer to item 7.1 of GTS for 11kV cable

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	REQUIREMENTS	Auxiliary Power- and Control Cables			Any other information provided in section VII 12.18 is sufficient for bidding purposes
140.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.1.5.2 & 1.1.5.4	Y	We understand these disconnectors are spares. Please confirm.	Refer to RFC 10 n addendum No 3 S.No 5
141.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.1.11.5	N	The specifications doesn't provide any details or list of Thermowelding tools and Thermowelding Connection kits. Please provide the same.	The information provided is sufficient for bidding purposes. Refer to 12.23.5 Design Overview for earthing connection requirements
142.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.1.11.10 & 1.1.11.10	N	Do we have to provide Thermowelding tools (2 each) & Thermowelding Connection kits (20 Sets) of Item No. 1.1.11.5.	Note that items 1.1.11.10 Thermowelding tools (2 each) and 1.1.11.11 Thermowelding Connection kits (20 Sets) are all spares as indicated for substation earthing conductor joints
143.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.1.19.1	Y	As per E-330 kV Nakonde Stepdown Substation 11kV Aux SLD, we understand 1 Set of 5 Nos. of 11kV Panel. However the price schedule states 2 Each of Complete supply of metal clad indoor Air Insulated Switchgear (AIS). Please clarify.	An addendum No 3 S.No 5 is issued for Price schedules item 1.1.19.1 to amend to "1 lot" of 5 panels

S. No.	Specifica- tion Clause	Document Reference	Adden- dum Re- quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
144.	PART 1 – BIDDING PROCE- DURES	Price Schedule 4, Item No. 4.1.19.9.8	Y	The specification doesn't specify what Other Tests is required by the Employer/ Consultant. Please specify the requirement.	An addendum No 3 S.No 5 is issued for Price schedules item 4.1.19.8 deleted
145.	PART 1 – BIDDING PROCE- DURES	Price Schedule 7 - Day- works Rates	N	We understand, Schedule 4, main civil cost to be considered is without considering any of these items and this will be paid in addition to price in schedule 5, or is this for some change order. Please confirm.	Daywork rates (Schedule 7) are only unit rates that bidders must price for any additional work requirements and shall not form part of the total bid price
146.	PART 1 – BIDDING PROCE- DURES	Price Schedule	N	Line Maintenance kit is not asked in price schedule for Nakonde Substation. Please clarify if the same is required.	This is not required at Nakonde Substation
147.	PART 1 – BIDDING PROCE- DURES	Price Schedule	Y	HVAC is not asked in price schedule for Nakonde Substation. Please clarify if the same is required.	An addendum No 3 S.No 5 is issued to add line item Air conditioners at Nakonde SS and addendum 3 S.No 8 to include in section VII 11.2.25 Civil works the following: 'Air – conditioning' and 'Ventilation'
148.	PART 1 – BIDDING PROCE- DURES	Price Schedule 7 - Day- works Rates	N	Please provide more details to quote for following items	Bidders must price only for unit rates that shall be used for any additional work requirements and shall not form part

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE																		
				<table><tr><td>7.0</td><td>DAYWORK RATES</td><td>QTY</td></tr><tr><td>7.1</td><td>Rock Excavations</td><td>m³</td></tr><tr><td>7.1.1</td><td>Standard Excavations</td><td>m³</td></tr><tr><td>7.2.1</td><td>Blasting - Chemical</td><td>kg</td></tr><tr><td>7.2.2</td><td>Blasting - Explosives</td><td>kg</td></tr><tr><td>7.3</td><td>Rock Drilling</td><td>Holes</td></tr></table>	7.0	DAYWORK RATES	QTY	7.1	Rock Excavations	m³	7.1.1	Standard Excavations	m³	7.2.1	Blasting - Chemical	kg	7.2.2	Blasting - Explosives	kg	7.3	Rock Drilling	Holes	of the total bid price Refer to RFC 145
7.0	DAYWORK RATES	QTY																					
7.1	Rock Excavations	m³																					
7.1.1	Standard Excavations	m³																					
7.2.1	Blasting - Chemical	kg																					
7.2.2	Blasting - Explosives	kg																					
7.3	Rock Drilling	Holes																					
149.	PART 1 – BIDDING PROCEDURES	Price Schedule 7 - Day-works Rates, Rock excavation	Y	Unit rates are based on normal rock conditions encountered at site and measured in-situ. Rates exclude extraordinary hard rock, underground obstructions, groundwater control beyond normal seepage, shoring, slope stabilization, and disposal beyond 1 km, Please confirm.	The daywork rates shall be limited to the items provided under Price Schedule 7 Daywork Rates An addendum 3 S.No 5 issued to amend item 4.1.19.1.3 of the Price Schedules and amend Price schedule 7 Daywork Rates items and numbering																		
150.	PART 1 – BIDDING PROCEDURES	Price Schedule 7 - Day-works Rates, Chemical Blasting	Y	Rate applicable only for supply and placement of chemical expansive agent in pre-drilled holes. Drilling shall be measured and paid separately, Please confirm.	Price Schedule 7 Daywork Rates are all-inclusive. Refer to RFC 149 and addendum 3 S.No 5																		
151.	PART 1 – BIDDING PROCEDURES	Price Schedule 7 - Day-works Rates, Explosive Blasting	Y	Rate excludes controlled blasting requirements, vibration monitoring, blast shelters, statutory explosive licensing costs, and standby due to blasting restrictions, Please confirm	Refer to RFC 149 and 150 and addendum 3 S.No 5																		

S. No.	Specifica- tion Clause	Document Reference	Adden- dum Re- quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE												
152.	PART 1 – BIDDING PROCEDURES	Price Schedule 7 - Day- works Rates, Rock drilling	Y	Rock drilling is unit is holes. But cost depends on dia and depth of the hole. Hence please specify the item accordingly eg: <table><tr><td colspan="3">Per Linear meter price for following</td></tr><tr><td>Hole Diameter</td><td>Depth Range</td><td>Unit</td></tr><tr><td>32-45 mm</td><td>up to 3 m</td><td>m</td></tr><tr><td>75-100 mm</td><td>up to 10 m</td><td>m</td></tr></table>	Per Linear meter price for following			Hole Diameter	Depth Range	Unit	32-45 mm	up to 3 m	m	75-100 mm	up to 10 m	m	Refer to RFC 149 and 150
Per Linear meter price for following																	
Hole Diameter	Depth Range	Unit															
32-45 mm	up to 3 m	m															
75-100 mm	up to 10 m	m															
153.	PART 2 – EM- PLOYER'S REQUIRE- MENTS	11052026_ZTIP_RfB_NA- KONDE SUBSTA- TION_PACKAGE 4_IS- SUED / FIRE PROTEC- TION/ 2.12	N	As per the clause , We have considered Addressa- ble type fire detection system for control building only. We have not considered any fire detection system for operator houses and guard houses or any other residential building. Please confirm.	There shall be no fire detection system for operator houses and guard houses or any other residential building The requirements of fire detec- tion system shall be as pro- vided for in Section VII 2.12												
154.	PART 2 – EM- PLOYER'S REQUIRE- MENTS	11052026_ZTIP_RfB_NA- KONDE SUBSTA- TION_PACKAGE 4_IS- SUED / FIRE PROTEC- TION/ 2.12	N	As per the clause , we have considered NIFPS sys- tem and portable fire extinguishers for transformers and reactors. We have not considered Pumping system, Hydrant system or any other water based fire protection system under present scope. Please confirm	The requirements of the fire system shall be as provided for in Section VII 2.12 and Price Schedule item 1.1.15 and 1.1.16												
155.	General	General	N	We have considered only portable fire extinguisher for Control Building , guard house and DG set only . Please confirm.	Refer to Section VII 2.12 (j) and Price Schedules												

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
156.	General	General	N	We have considered the below following type of fire extinguishers for subject tender:- 1) 50kg DCP type Trolley mounted Fire extinguishers. 2) 6kg DCP type Portable Fire extinguisher. 3) 4.5 kg CO2 type Portable Fire extinguisher. 4) 9 liter foam type Portable Fire extinguisher. Please confirm	The type of fire extinguishers shall be as indicated in the RfB and where not expressly stated, all buildings shall be assumed to have a minimum size of 9kg DCP or 5kg CO2
157.	General	General	N	In absence of mandatory spare list for fire detection system, we are considering below following items as mandatory spares for subjected tender. 1) Smoke/ heat detectors- 4Nos (3nos smoke detector and 1 no's heat detector) Please confirm.	All mandatory spare parts shall be priced under Price Schedule 1.1.22.10. The bidders shall also include recommended spares in schedule 6
158.	General	General	N	We assume that there is Provision in the SCADA to have signals of Fire system as per Tender Doc. Please confirm.	Note that as per Section VII 2.12 (f), the fire system shall send alarms to the control system which can be binary inputs to the SCADA system as included in GTS item 9.9.17
159.	General	General	Y	We are considering VRF /VRV system hot and cold type air conditioning for communication room, control room , relay room, superintendentants office, engineers office, Meeting room only .Please confirm.	The air conditioning for Nakonde substation shall be as per 11. 2.25 Civil works (Section VII). An addendum No 3 S.No 5 shall be issued to add

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					line item Air conditioners at Nakonde SS . Refer to RFC 147
160.	General	General	Y	We are considering ventilation system for 11kv switchgear room, Storage room., AC//DC room, Battery rooms, dinning/kitchen, Toilets, service room and guard house only. Please confirm.	The air conditioning for Nakonde substation shall be as per 11.2.25 Civil works (Section VII). An addendum No 3 S.No 5 shall be issued to add line item Air conditioners at Nakonde SS . Refer to RFC 147 and 159
161.	General	General	Y	We are considering 50% capacity standby AC units for control room, relay panel room only. Please confirm.	50% standby capacity is acceptable The air conditioning for Nakonde substation shall be as per 11.2.25 Civil works (Section VII). An addendum No 3 S.No 10 shall be issued to add line item Air conditioners at Nakonde SS . Refer to RFC 147 and 159, addendum 3 S.No 8

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
162.	General	General	N	Air- Conditioning heat load calculation shall be done on the basis of max / min site temperature and unit will satisfactory work up to ambient temperature i.e. 50 deg. C. Please confirm.	The proposed assumption is acceptable. Further refer to Section VII Employers Requirements section 3 Local Conditions for local design conditions
163.	General	General	N	We have considered wall mounted 2TR hot and cold type split ac unit for air conditioning for operator houses. Please confirm	The proposed consideration is acceptable for bedrooms and sitting room
164.	General	General	Y	Please provide the technical specifications for the air conditioning system.	Refer to RFC 147 and 159 for control buildings and 163 for staff houses
165.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	Y	KASAMA - Kindly Provide the as built drawings of existing equipment structure and its foundation.	Drawings A1-Kasama Substation Layout_REV01_30062026 and added Kasama SS Primary Equipment Section Drawing_AsBuilt_20102015 are sufficient for bidding purposes
166.	PART 2 – EMPLOYER'S REQUIREMENTS	SECTION VII	N	Kasama - We understand that all support structures of Equipment in the substation are of the lattice type. Kindly confirm.	Confirmed. Refer to RFC 108

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
167.	PART 2 – EMPLOYER'S REQUIREMENTS	11.1 330 kV Kasama Substation	Y	Please provide details of raised water tank next to the guard house that needs to be moved to the other side of the entrance road.	Refer to RFC 46 and 73 and addendum 3 S.No 9.
168.	General	General	N	Kasama Please confirm that, civil works will be performed only for 2 Nos. of bays and bus bar extension area only.	Confirmed. For scope of work for civil works, refer to Section VII 11.1.15-11.1.24
169.	PART 2 – EMPLOYER'S REQUIREMENTS	11.1.18 Self-Levelling Epoxy Flooring, Etc.	Y	This clause states to Refer to As-built drawing of Kasama S/S Control building. However the tender document doesn't contain the same. Please provide As-built drawing of Kasama S/S Control building	Refer to RFC 5 and addendum No 3 S.No 1
170.	PART 2 – EMPLOYER'S REQUIREMENTS	Drawings	Y	Kasama - Please provide the section layout.	Refer to A1-Kasama Substation Layout_REV01_30062026, RFC 116 and addendum 3 S.No 9
171.	PART 2 – EMPLOYER'S REQUIREMENTS	Drawings & Price Schedule	Y	Kasama - As per the GTP and price schedule, the Current Transformer is specified as 7-core; however, the SLD indicates a 6-core Current Transformer. Kindly confirm	Refer to RFC 23 and addendum 3 S.No 2

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
172.	PART 2 – EMPLOYER'S REQUIREMENTS	Drawings & Price Schedule	Y	Kasama - Please confirm the Reactor Bay CT requirement, as the CTs are not shown in the SLD and layout drawings; however, they are mentioned in the price schedule. Kindly clarify the correct requirement.	Refer to RFC 3 and addendum 3 S.No 2
173.	PART 2 – EMPLOYER'S REQUIREMENTS	Auxiliary Panels	Y	Kasama Please confirm that existing CRB has enough space to accommodate required auxiliary panels. Kindly provide the building layout and section drawing.	Confirmed. Refer to RFC 5 and addendum No 3 S.No 1
174.	PART 2 – EMPLOYER'S REQUIREMENTS	DCDB	N	Kasama Please confirm that no new supply of DC battery system is required under the scope and enough spare feeder in DCDB are available for supplying the current scope requirement.	Confirmed. The requirements as Section VII 11.1.4-DC supply shall stand
175.	PART 2 – EMPLOYER'S REQUIREMENTS	ACDB	N	Kasama Please confirm that existing ACDB has enough spare feeder for supplying current scope requirements	Confirmed. Refer to RFC 174
176.	PART 2 – EMPLOYER'S REQUIREMENTS	Earthing	Y	Kasama Please provide existing earth mat spacing, earth mat conductors size and confirm that same can be extended for the new bays.	Refer to RFC 28 and Addendum 3 S.No 9 issued to include

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					the drawing Kasama Substation lightning and Earth Network_ AsBuilt_20102015
177.	PART 2 – EMPLOYER'S REQUIREMENTS	Cable Trenches	Y	Kasama Please confirm that existing main cable trench can be used for present scope requirements.	Refer to A1-Kasama Substation Layout_REV01_30062026 (PP-ZTIP-P04-ODSS-E102). Existing cable trench sizes are stated as CH1: 1100mm x 1000mm; CH2: 800mm x 880mm; CH3: 400mm x 400mm. The new cable trench to the new equipment shall be as per the layout drawing
178.	PART 2 – EMPLOYER'S REQUIREMENTS	CRP-SAS	Y	Kasama Please provide type busbar protection and the existing relay make and model. Kindly confirm existing bus bar protection has spare terminals to accommodate current bay requirements.	Refer to RFC 29 and 30, and addendum 3 S.No 11
179.	PART 2 – EMPLOYER'S REQUIREMENTS	A1-Kasama Substation Layout	Y	Please confirm whether we can use existing busbar structure on side one side while extending the 330kV Busbars.	Refer to drawing A1-Kasama Substation Layout_REV01_30062026

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
180.	PART 2 – EM-PLOYER'S REQUIREMENTS	11.1.4 Auxiliary Power Supply	N	Kasama We understand existing Auxiliary power supply is sufficient to cater to extension bays. Please confirm.	Confirmed. Refer to RFC 174
181.	General	General	Y	Kasama Please provide details of existing Make & Model of following equipment's 1. Busbar Protection 2. WAMPACS 3. Substation Automation System 4. Telecommunication Systems	Refer to RFC 30, 31 & 32, addendum 3 S.No 9, 11 and 11.1. 11 WAMPACS and 13 Telecommunication Systems of Section VII. Note that WAMPACS specifications provided in GTS are sufficient and applicable to Kasama SS
182.	PART 2 – EM-PLOYER'S REQUIREMENTS	11.1.14 Surveillance and Access Control Systems	N	Kasama We understand Surveillance and Access Control Systems shall be provided for the whole substation. Please confirm.	Confirmed. Refer to Section VII 11.1.14
183.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.2.6.1	N	The quantity of Post insulators complete with supporting structure is 2 Lots. We understand it should be 1 Lot, please confirm.	Refer to RFC 13
184.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.2.18.1	Y	The specifications doesn't provide any details or List of Line Maintenance Kit. Please provide the same.	An addendum No 3 S.No 5 is issued to delete item 1.2.18.1 of the Price Schedule

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
185.	PART 1 – BIDDING PROCEDURES	Price Schedule	Y	Surveillance and Access control is not asked in price schedule for Kasama Substation. Please clarify if the same is required.	An addendum No 3 S.No 5 issued to add item 1.2.18.3 Surveillance and Control System to Price Schedule 1 at Kasama SS
186.	PART 1 – BIDDING PROCEDURES	Price Schedule 1, Item No. 1.2.14.4	Y	Refers Integration into the existing upgraded SAS, However Schedule 3, item no. 3.2.13 calls for SAS upgrade design. Please confirm what upgrade is needed at Kasama Substation.	An addendum No 3 S.No 5 issued to amend item 3.2.13 to "SAS integration Design"
187.	PART 2 – EMPLOYER'S REQUIREMENTS	11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED / FIRE PROTECTION/ 2.12	N	As per the clause , we have considered NIFPS system and portable fire extinguishers for reactors. We have not considered Pumping system, Hydrant system or any other water based fire protection system under present scope. Please confirm	Refer to RFC 154
188.	General	General	N	We have not considered any fire detection system under the present scope. Please confirm	Refer to RFC 153 – 155. Fire protection is as provided for in Section VII of the Employer's Requirements and in price schedules for both Kasama and Nakonde substations
189.	General	General	N	We have not considered any fire protection system for any existing buildings under present scope. Please confirm.	Refer to RFC 153 – 155. Fire protection is as provided for in Section VII of the Employer's Requirements and in price

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					schedules for both Kasama and Nakonde substations
190.	General	General	Y	We have not considered any air conditioning system for subjected tender other than relay room. Please confirm.	Refer to RFC 147, 159, 160, 161, 163, 164 and 190
191.	General	11.1.23 Air conditioners	Y	Please specify where this unit will be installed in the control room.	Floor standing cabinet type air conditioners shall be installed in the telecommunication room as per price schedule 1.2.13.26 at Kasama Substation Refer to added drawing A2-PP-ZTIP003-ODSS-Refurbishment Works at Kasama Substation_REV00_30062026 in addendum 3 S.No 1
192.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 31 of General Conditions of Contract (GCC)	N	As per clause 31 of GCC, 'Ownership of the Plant (including spare parts) to be imported into the country where the Site is located shall be transferred to the Employer upon loading on to the mode of transport to be used to convey the Plant from the country of origin to that country.' Thus we understand that the employer is the importer of plants supplied from abroad specified in Schedule 1 in Zambia. Please confirm whether our understanding is correct.	Refer to GCC Clause 31.5. Note that schedule 1 items are CIP priced as stated in Section I ITB 17.5 (a) which implies that the contractor is responsible for delivering the items and paying for cargo insurance until the goods reach a specific destination chosen by the buyer.

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					The consignee shall however be the employer
193.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 14 of General Conditions of Contract (GCC)	N	As per clause 14 of GCC, ' <i>Notwithstanding GCC Sub-Clause 14.1 above, the Employer shall bear and promptly pay</i> (a) <i>all customs and import duties for the Plant specified in Price Schedule No. 1; and</i> (b) <i>other domestic taxes such as, sales tax and value added tax (VAT) on the Plant specified in Price Schedules No. 1 and No. 2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located.</i> Thus we understand that for Plants supplied from abroad specified in Price Schedules No. 1 and plants supplied from within the employer's country the prices have to be quoted exclusive of custom duties, taxes on importation and VAT on importation. Please confirm whether our understanding is correct	Refer to RFC 16
194.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 14 of General Conditions of Contract (GCC)	N	As per clause 14 of GCC, ' <i>Except as otherwise specifically provided in the Contract, the Contractor shall bear and pay all taxes, duties, levies and charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.</i>	Refer to RFC 16

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Thus prices for installation services as specified in Schedule 4 have to be quoted inclusive of VAT. Please confirm whether our understanding is correct.	
195.	PART 1 – BIDDING PROCEDURES	Price Schedule	N	Please confirm whether any taxes will be with held for Plants supplied from abroad as specified in Schedule 1 and designing services as specified in Schedule 3 provided by companies non resident in Zambia. If taxes will be withheld please confirm the rates at which taxes will be withheld.	Refer to RFC 16
196.	PART 1 – BIDDING PROCEDURES	Price Schedule	N	Please confirm whether any taxes will be with held for Plants supplied from within Zambia as specified in Schedule 2 and installation services as specified in Schedule 4 provided by companies resident in Zambia. If taxes will be withheld please confirm the rates also.	Refer to RFC 16
197.	PART 2 – EMPLOYER'S REQUIREMENTS	Substation Coordinates-Existing	Y	Kindly provide the coordinates for all corners of the Existing substation.	Refer to RFC 96 and addendum 3 S.No. 9
198.	PART 2 – EMPLOYER'S	Weight and Size Limitations	N	Is there any weight & size limitation for maximum axle loading on Zambia Roads and from the road authorities of all transit countries.	For weight & size limitation for maximum axle loading on Zambia Roads and from the road

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	REQUIREMENTS			If yes please and equipment like transformer & reactor exceed the weight limitation , the what are the penalties & who will bear	authorities of all transit countries, bidders are encouraged to engage relevant agencies. For the related costs, refer to Section I ITB 17.5 (d)
199.	PART 2 – EMPLOYER'S REQUIREMENTS	Factory Acceptance Test (FAT)	N	Please confirm whether factory acceptance test (FAT) for each equipment that are required in both the Substation shall be done all at once i.e. to say that the factory acceptance test (FAT) will not done substation wise. For eg: Please confirm whether factory acceptance test for 330kV Reactor for both the S/S shall be done together (so that the related costs are incurred only once).	FATs for each equipment are required and shall be priced as per Section IV Price Schedule 4. The bidder shall schedule FATs based on equipment type and speciality Refer to Section VII 12.4 on the number of FAT participants per particular equipment
200.	PART 2 – EMPLOYER'S REQUIREMENTS	Factory Acceptance Test (FAT)	N	Please clarify whether cost related to Employer's personnel & consultant for FAT (air travel, accommodation, per diems) will be borne by the Employer.	Refer to RFC 67
201.	PART 2 – EMPLOYER'S REQUIREMENTS	Clause 11.4.1 Foreign Training	N	Please clarify whether cost related to Employer's personnel for training (air travel, accommodation, per diems) will be borne by the Employer.	Note that the requirement in Section VII 11.4.1 shall stand: <i>"The Contractor shall include cost of training course"</i>

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					<i>and facilities in the Price Schedule for all training to be provided by the Contractor. The price shall also include local transportation". As provided for in the RfB, air travel, accommodation and per diems will be borne by the Employer</i>
202.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 10.8 Employer's Responsibilities	N	We suggest the following insertion: In the event that the Employer shall be in breach of any of his obligations under this Clause, the additional cost incurred by the Contractor plus reasonable profit in consequence thereof shall be determined by the Project Manager and added to the Contract Price.	Clause 10.8 shall not be changed
203.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 29 Patent Indemnity	N	<i>29.1 The Contractor shall, subject to the Employer's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result</i>	Clause 29 shall not be changed

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				<i>of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country</i> We suggest the following insertion: The Contractor shall, subject to the Employer's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, direct claims, demands, losses, damages, costs, and reasonable expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country	

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
204.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 37 Force Majeure	N	<i>“Force Majeure” shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the Party affected, and shall include, without limitation, the following:</i> <i>(a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war</i> <i>(b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts</i> <i>(c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority</i> <i>(d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague</i> <i>(e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster</i> <i>(f) shortage of labour, materials or utilities where</i>	Clause 37 shall not be changed

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				<i>caused by circumstances that are themselves Force Majeure.</i> We suggest the following insertion: "Force Majeure" shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the Party affected, and shall include, without limitation, the following: (a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, pandemic, quarantine and plague (e) earthquake, landslide, volcanic activity, fire, flood	

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster (f) shortage of labour, materials or utilities where caused by circumstances that are themselves Force Majeure. Suggest that the Bank Guarantee should not be invoked/enforced by the Employer during the subsistence/continuance of the Force Majeure event.	
205.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 40.4 Extension of Time for Completion	N	<i>In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 40.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall thereafter comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC.</i> <i>40.1, the amount of such extra costs shall be added to the Contract Price.</i> We suggest the following insertion:	Clause 40.4 shall not be changed

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 40.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall thereafter comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC. 40.1, the amount of such extra costs plus reasonable profit shall be added to the Contract Price.	
206.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 41 Suspension	N	We Suggest the following new sub clause to be inserted under Suspension as Clause 41.5: If the suspension has continued for more than 20 (twenty) days, the Contractor may request the Employer's permission to proceed. If the Employer does not give permission within 10 days after being requested to do so, the Contractor may, by giving notice to the Employer, treat the suspension as an omission of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 42.3 [Termination by the Contractor].	Clause 41 shall not be changed

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
207.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 41.3	N	we suggest following insertion: If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GCC Clause 41, then the Time for Completion shall be extended in accordance with GCC Sub-Clause 40.1, and any and all additional costs or expenses plus reasonable profit incurred by the Contractor as a result of such suspension or reduction shall be paid by the Employer to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.	Clause 41.3 shall not be changed
208.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Clause 42.1 Termination for Employer's Convenience	N	We suggest the following modification: The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Sub-Clause 42.1. The termination shall take effect 28 days after the later of the dates on which the Contractor receives this notice or the Employer returns the Performance Security. The Employer shall not terminate the Contract under this Sub-Clause in order to execute the Facilities either on its own, or by engaging other third-party contractors.	Clause 42.1 shall not be changed
209.	PART 3 – CONDITIONS OF CONTRACT	Clause 42.3.4 Termination by Contractor	N	We suggest the following modification: 42.3.4 If the Contract is terminated under GCC Sub-Clauses 42.3.1 or 42.3.2, the Employer shall pay to the Contractor all payments specified in GCC Sub-	Clause 42.3.4 shall not be changed

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	AND CONTRACT FORMS			Clause 42.1.3, and reasonable compensation for all loss, except including loss of profit, or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.	
210.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	New Clause	N	We suggest insertion of the new clause relating to currency fluctuation, so that in case there is a significant (%) may be appropriately be inserted by the Business Team) depreciation/reduction in the currency in which the Contractor is to be paid the Contract Price, then the Client should compensate the Contractor for such loss to the Contractor and appropriately revise the Contract price. Suggest insertion of the following Clause: (c) In the event of any decrease in the exchange value of the agreed currency, the Employer shall be liable to make the payment of the difference amount to the Contractor as per the agreed payment schedule.	New clause is not acceptable
211.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Sec- VIII GCC-25.5	N	Please clarify if the Payment against completion certificate and triggering of DLP period will occur if Pre-commissioning is delayed due to reasons not attributable to contractor.	Refer to GCC 25.5.2 - 25.5.4

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212.	PART 1 – BIDDING PROCEDURES	Section III – Evaluation and Qualification Criteria, 3. Evaluation of Financial Part	N	Power Loss is appearing in Lifecycle cost as well as Functional guarantee, please clarify if this will be counted twice for bid evaluation. Please confirm	The evaluation of power losses for transformers and reactors is as given in Section III – Evaluation and Qualification Criteria, 3. Evaluation of Financial Part Capitalisation of losses for bid evaluation purposes. The Lifecycle cost penalties are given under Appendix 8 – Functional Guarantees of Section X
213.	PART 1 – BIDDING PROCEDURES	Sec-III ITB 36.2	N	Please clarity on which date the exchange rate to be considered for bid evaluation.	Refer to Section II Bid Data Sheet ITB 36.2
214.	PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS	Section X - Contract Forms, Appendix 2 – Price Adjustment	N	We understand the price adjustment for currency exchange will be applied only on variable portion. i.e. If the price is USD 100 and due to variable component the price becomes USD 110 due price adjustment than the variation due to currency fluctuation will be applied on USD 10 and not on USD 110. Please confirm.	The price adjustment for the eligible items listed in Appendix 2 – Price Adjustment shall be based on the price adjustment formula provided.
215.	PART 1 – BIDDING	Section III - Table 3: Minimum Criteria of Major Equipment	N	<i>"If type-test reports are older than 8 years, the Bidder shall perform selected confirmatory type tests on a representative production unit to re-validate critical</i>	Refer to RFC 124

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	PROCEDURES			<i>performance parameters at an ISO/IEC 17025 accredited laboratory. The representative unit shall be of the same model family, rating, and internal design as the originally type-tested unit. Test items and acceptance criteria shall comply with the relevant IEC standards."</i> We would request you to accept type test certificates older than 8 years if there are no modifications in the construction of the equipment as you would acknowledge that repetition of type tests is an extremely costly and time-consuming process.	
216.	PART 1 – BIDDING PROCEDURES	Section III - Table 3: Minimum Criteria of Major Equipment	N	Kindly confirm if the type test reports for similar or higher rating equipment will be acceptable	Refer to Section VII 7.5.3
217.	1.1.3.1	Price Schedules	N	1.1.3 330kV NAKONDE STEPDOWN SUBSTATION 330kV Single Phase Circuit Breakers complete with supporting structure Kindly confirm that the mentioned quantity of 30 refers to the number or sets. Each set consists of a complete circuit breaker, which includes three poles (one for each phase).	Reference is made to drawings and Section VII. Since single phase circuit breakers are equipped with complete actuator at each phase, the number refers to each pole. The quantity mentioned are 30 poles or 10 complete sets (3-phase).

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218.	1	Section III – Evaluation and Qualification Criteria – Table 3 Min. criteria of Major Equipment	N	Table 3: Minimum Criteria of Major Equipment “Valid type test certificates from an independent institute not older than 8 years from independent laboratories which have the accreditation certificate for the testing lab to ISO/IEC 17025.” Some of our type test reports are more than 8 years old. Since there has been no change in our design, and IEC standards do not suggest repeating type tests when the design remains the same, the existing reports are still valid.	Refer to RFC 124
219.	1	Section III – Evaluation and Qualification Criteria – Table 3 Min. criteria of Major Equipment	N	Table 3: Minimum Criteria of Major Equipment “If type-test reports are older than 8 years, the Bidder shall perform selected confirmatory type tests on a representative production unit to re-validate critical performance parameters at an ISO/IEC 17025 accredited laboratory. The representative unit shall be of the same model family, rating, and internal design as the originally type-tested unit. Test items and acceptance criteria shall comply with the relevant IEC standards.” There has been no change in our design, and IEC standards do not suggest repeating type tests when the design remains the same, the existing reports are still valid.	Refer to RFC 124

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220.	12.8.5	Employer's Requirements	Y	12.8.5 Specific Requirement "The total breaking time (opening time plus duration of the arc) of the breakers shall be as short as possible, but in no case is it to be longer than 40 msec." As per type test report breaking time of our breaker is ≤ 45msec.	An addendum 3 S.No 11 is issued to amend the requirement in SECTION VII 12.8.5 from "The total breaking time (opening time plus duration of the arc) of the breakers shall be as short as possible, but in no case is it to be longer than 40 msec" to "The total breaking time (opening time plus duration of the arc) of the breakers shall be as short as possible, but in no case is it to be longer than 45 msec" to align with GTS item 2.1.20
221.	12.8.12	Employer's Requirements	N	12.8.12 Operating Mechanism and Control "The mechanism shall be housed in a weatherproof and dust-proof control cabinet (IP 56)." The mechanism shall be housed in a weatherproof and dust-proof control cabinet (IP 55)	The requirement in SECTION VII 12.8.12 shall stand
222.	12.8.12.2	Employer's Requirements	N	12.8.12.2 Control "Shunt trip coil and associated circuits shall operate correctly under all operating conditions of the circuit	Requirement in SECTION VII 12.8.12.2 shall stand

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				breaker up to the rated breaking capacity of the circuit breaker and at all values of supply voltage between 70% and 110% of rated voltage. However, even at 50% of rated voltage the breaker shall be able to operate." In accordance with IEC 62271-100, we guarantee that the trip coil will operate reliably within a voltage range of 70% to 110% of its rated value.	
223.	2.1.13 3.1.13	Technical Schedules	N	Minimum Creepage distance "330kV GCB: 13316mm 132kV GCB: 5334mm" Please confirm whether the creepage distance requirement for a rated voltage of 362 kV should be applied directly, or if it must be accommodated using the 420 kV frame.	The required creepage distance is a minimum and shall be fulfilled. The requirements as provided in Guaranteed Technical Characteristics shall stand
224.	2.5.12	Technical Schedules	Y	330 kV Current Transformer Line Feeder Bay "Nominal current: 1200-2400/1A" In the 330kV CT GTP, two CT ratios are mentioned; however, the BOQ does not specify any CT ratio. Kindly confirm which ratio should be followed and also provide the CT/CVT BOQ with detailed core specifications.	Reference is made to Section VII 12.11 and amended drawings B-KASAMA-SLD-REV01_30062026 and D-330 kV Nakonde Stepdown Substation SLD_REV03_30062026. It is a multi-ratio CT and it shall be possible to select between the two ratios stated.

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					BoQ will not specify detailed technical data.
225.	2.6.12	Technical Schedules	Y	330 kV Current Transformer - Transformer Bay "Nominal current: 100-200/300-600/1200-2400/1A" In the 330kV CT GTP, two CT ratios are mentioned; however, the BOQ does not specify any CT ratio. Kindly confirm which ratio should be followed and also provide the CT/CVT BOQ with detailed core specifications.	Refer to RFC 224
226.	3.5.10	Technical Schedules	N	132(66) kV Capacitive Voltage Transformers "Interconnectable between 132/√3 and 66/√3" Interconnectable primary voltage between 132/√3 and 66/√3 is not part of the product design. We can offer either 132kV or 66kV as the primary voltage. Please confirm.	Refer to RFC 86
227.			Y	36kV Surge arrester GTP is missing from RFQ. Please check and share the same.	Refer to RFC 24 and addendum 3 S.No 3
228.			N	Please reconfirm the creepage of GCB, ITR and LA.	The creepage distance under Guaranteed Technical Schedules shall stand.

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229.			N	We will offer GCB, ITR & LA only.	Equipment offered should be as SECTION VII 11 Scope of works and respective technical specifications in the Guaranteed Technical Characteristics
230.	Table 7: Qualification (4) – Experience	Section III - Evaluation and Qualification Criteria	Y	Clause 4.2(a) – Specific Experience states that: Participation as contractor, joint venture member, management contractor, or subcontractor, in at least two (02) contracts within the last ten (10) years preceding the bid submission deadline, each with a value of at least United States Dollars Twenty Million (USD 20 m) or at least one (01) contract within the last ten (10) years preceding the bid submission deadline with a value of at least United States Dollars Forty Million (USD 40 m). and The similarity of the contracts shall be based on the following: 1) 330kV (minimum) new (greenfield) substation with at least two transformers of 330kV or above; and 2) At least two 330kV or above line bays with associated line reactors. We kindly request clarification as to whether a GIS Substation project satisfying all requirements for Special Experience a) can be accepted as the right project experience.	Addendum 3 S.No issued to amend]Section III - Evaluation and Qualification Criteria – Clause 4.2 (a) as follows: “...The similarity of the contracts shall be based on the following Air Insulated Substation... ”

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231.	ITB 23.1	Section II – Bid Data Sheet	Y	The Bid opening shall take place at: Date: 26 June 2026 Time: 10:30AM CAT As our suppliers and subcontractors require additional lead time to prepare quotations and tender documentation for this project, we respectfully request a four-week extension to the bid submission deadline, with the new closing date set for 24 July 2026. We would appreciate your formal confirmation of this request.	Refer to RFC 1 and addendum 3 S.No 12
232.			Y	Please provide the coordinates of substation land extents – boundary line for 330 kV Nakonde Stepdown Substation	Refer to RFC 96 and addendum 3 S.No 9
233.			Y	Please confirm the scope of site clearing (topsoil removal) for 330 kV Nakonde Stepdown Substation. a.Substation Land Extents – Boundary/ Perimeter fencing (500m x 1000m); b.Substation Perimeter – Security fencing (310m x 250m).	Refer to RFC 96 and addendum 3 S.No 9 for added Drawing 330kV Nakonde Substation Site_Plan_REV00_15062026
234.			Y	Please confirm the scope of earthwork (fill and excavation) for 330 kV Nakonde Stepdown Substation.	Refer to RFC 96 and addendum 3 S.No 9 for added PP-

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				a.Substation Land Extents – Boundary/ Perimeter fencing (500m x 1000m); b.Substation Perimeter – Security fencing (310m x 250m).	ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026
235.			Y	Please provide the layout drawings with coordinate points & access road route to the public road for 330 kV Nakonde Stepdown Substation	Refer to RFC 96 and addendum 3 S.No 9
236.			Y	Please provide the topographic map in CAD file for 330 kV Nakonde Stepdown Substation	Addendum 3 S.No 9 issued to add file S3 & S4 Nakonde Substation Topo Map (ARC1950).dwg As per SECTION VII 11.2.27, "A Soil Investigation report, Hydrological Meteorological Report and Topographic Maps are attached. Refer to Supplementary Information S1, S2, S3 and S4. The data should be used for reference only " and "The Contractor will be required to undertake detailed topographic surveys to locate and set out earthwork for terraces etc"

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237.	11.2.25	Section VII – Employer's Requirements 11.2.25 Civil Works/Page 397	Y	"The Package 4 consist of the greenfield 330/(132)66/11kV Substation including control building and six houses (Three (03) 150 m2 and Three (03) Type B) for operators." Please confirm six houses (Three (03) 150 m2 and Three (03) Type B) for operators are permanent or temporary? If permanent, please provide the general layout & location for operators.	Permanent. Refer to RFC 96, addendum 3 S.No 9 and drawings J_330 kV Nakonde Stepdown Substation House 150 m2 and K_330 kV Nakonde Stepdown Substation House Type B
238.			N	Please provide the geological report for 330 kV Kasama Substation.	Refer to RFC 39
239.		Price Schedules	Y	Please kindly provide the price schedule in Excel format.	Refer to amended Price Schedules - Package4_Section4_REV01_17062026
240.		Technical data sheets/Technical Schedules	Y	Please kindly provide Technical data sheets/Technical Schedules in Word or Excel format.	Refer to amended Technical Schedules Package 4 Substations_REV01_17062026
241.			Y	Please provide the As-Built documents for the electrical secondary specialty of Kasama station (such as SCADA architecture, protection configuration diagrams, communication Architecture, equipment lists, etc.)	Refer to RFC 31 and addendum 3 S.No 9

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242.	11.1.13	Section VII – Employer's Requirements	N	At Kasama 330kV substation, the existing fibre optic telecommunication equipment comprises the following: FIBRE TRANSMISSION EQUIPMENT: • ZXMP S385: • ZTE SDH Multiplexer • 10G (STM - 64) PCM AND ACCESS EQUIPMENT: • ZTE PCM500: • ZTE PCM Multiplexer For the 2 new Nakonde - 330kV feeders, new Dense Wavelength Division Multiplexer (DWDM) equipment shall be provided. The proposed telecoms terminal equipment shall be able to reliably transfer telecommunication signalling through a distance of 226km without a repeater station. Existing substation telecommunication system shall be extended for the connection with Nakonde Stepdown substation with the following components. Detailed description in technical requirements Optical Fiber Link. Supply of optical fiber approach cable (ADSS) from the gantries on the Nakonde Stepdown bays at Kasama substation to the telecom's equipment room.	Requirements in Section VII 11.1.13 shall stand and be used in conjunction with Price Schedules item 1.2.13

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				According to Section 11.1.13 of the technical specification, the KASAMA station has already been equipped with complete communication equipment. The technical specification requires the expansion of the existing substation communication system for this period, but the price list requires the installation of a new set of communication equipment. Please confirm whether it is to expand the existing communication system or to install a new set of equipment as per the price list.	
243.	2.1.23	Technical Schedules	Y	Technical Schedule 2.1. 330 kV Circuit Breaker - 2.1.23 Circuit for point-on wave relay - Required for shunt reactor Please confirm the Circuit for point-on wave relay is only required for Shunt Reactor Bay and not for Line or Transformer Bay.	Refer to RFC 20 and addendum 3 S.No 3
244.			Y	Please kindly provide the section drawings of the 330kV Nakonde stepdown substation and KASAMA substation. Especially for KASAMA Station, so that we can precisely determine the scope of the expansion project.	The Nakonde substation shall be designed by the contractor. For the Kasama substation, refer to RFC 116 and addendum 3 S.No 9

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245.	ITB 23.1	Section II – Bid Data Sheet	Y	The deadline for Bid submission is stipulated as 26 June 2026 in ITB 23.1, We hereby respectfully request for an extension of 45 days to the bid submission deadline, for the following considerations: 1) In accordance with the requirements specified in Section III – Evaluation and Qualification Criteria, which states that "all the above documents shall be presented in English, or translated into English by an authorized and notarized agent", we need to complete the authorization and notarization procedures for all relevant supporting documents. This process generally requires more than one month to complete in compliance with official requirements. 2) The project site visit was arranged on 1 June 2026, which leaves a relatively short interval from the current stipulated bid submission deadline, bringing certain constraints to our subsequent preparation work. 3) Following the completion of the site visit, we observed that the actual site conditions are more intricate than outlined in the preliminary basic information. As such, we need extra time to conduct supplementary on-site measurements, cross-verify key data, and adjust the bidder's technical and implementation plan accordingly, which requires more preparation time than we initially projected.	Refer to RFC 1 and addendum 3 S.No 12

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				4) Given the high competitiveness of this project, to deliver a comprehensive, rigorous and high-quality tender document that fully meets the project requirements, we need additional time to conduct in-depth data analysis and detailed cost calculation.	
246.	11.2.5	Section VII – Employer's Requirements	Y	In 11.2.5 Auxiliary Power Supply, it states: "The power for the substation's auxiliary service shall be supplied from the tertiary windings of the main Power Transformers via 11kV cables and switchgear, two 500kVA, 11/0,4kV Station Transformers down to a Main 400V switchgear." In 12.16.12 General Design Requirements, it states: "The transformer shall be connected in accordance with IEC 60076 series , BS EN 60076-1 or equivalent: three phase transformer to Vector Group reference Dyn11." In Drawing "E-330 kV Nakonde Stepdown Substation 11kV Aux SLD", it is shown that the vector group of the Zny11. Please clarify whether the station service transformer doubles as an earthing transformer, and confirm its vector group: Dyn11 or Zny11.	Addendum 3 S.No 10 issued to amend drawing E-330 kV Nakonde Stepdown Substation 11kV Aux SLD_REV01_30062026 to include corrected vector group of 500kVA transformers

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247.	11.2.25	Section VII – Employer's Requirements	Y	In 11.2.25 Civil Works, it states: "The land for the proposed substation possesses a steep grade which is unsuitable for construction without substantial earthworks. It has therefore been proposed to construct a retaining wall to create two levels for the substation yard. However, the bidder may consider the option of cutting and filling the site to create a single level terrace/platform instead. This option shall be considered to be included in the bid." Please clarify whether the option of Single Level Terrace/Platform must be submitted within the bid as alternative proposal, or whether the Contractor may choose not to submit it voluntarily. In addition, will other innovative proposals for the substation leveling allowed?	Requirements in SECTION VII 11.2.25 shall stand and information provided is sufficient for bidding purposes Addendum 3 .No 5 issued to amend Price Schedule item 4.1.19.1 as follows: "Bulk Earthworks for Platform/ Terrace (Stepped or single platform) Construction" and item 4.1.19 as "All Project Civil Works including Material (the pricing shall be deemed inclusive for either option)" and item 4.1.19.1.7 as "Option 1 (stepped): Construct reinforced concrete cantilever retaining wall between upper and lower terraces (complete with geotextile, weepholes, storm water drainage channels, safety barriers, signage, and stairs) Option 2 (Single platform): Construct a single terrace platform (complete with geotextile, weepholes, storm water drainage channels, safety

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					barriers and signage) comprising of slope protection on both the cut face and the embankment" Addendum 3 S.No 8 issued to amend Section VII 11.2.25 as follows: "Note: The land for the proposed substation possesses a steep grade which is unsuitable for construction without substantial earthworks. Therefore two options have been proposed; (i) To construct a retaining wall to create two levels for the substation yard. (ii) Cutting and filling the site to create a single level terrace/platform. Note that the price proposed under the Price Schedules shall be deemed inclusive of either of the options that the bidder shall opt for during construction"

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					Refer to RFC 236 and addendum 3 S.No 9
248.	12.11.5 12.11.7 2.5.12	Section VII – Employer's Requirements Technical Schedules	Y	In 12.11.5 Current Transformer, it states: "The thermal capability of the CT shall, per IEC 61869-2, be 200%." In 12.11.7 Current Transformer (CT), it states: "Current Transformers must have a minimum of seven (07) core for normal feeder protection and a minimum of five (05) cores for shunt reactors." In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS - 2.5 330 kV Current Transformer Line Feeder Bay, it states 2.5.12 Nominal current is 1200-2400A According to IEC 61869-2 Clause 5.203 Standard values for rated continuous thermal current, it states: "The standard value for rated continuous thermal current is the rated primary current. When a rated continuous thermal current greater than the rated primary current is specified, the preferred values are 120%, 150% and 200% of rated primary current.", which means that 120%, 150% and 200% are allowed. In accordance with the Employer's Requirements, current transformers shall be equipped with a minimum of seven (7) cores, and in the technical data sheet, the nominal primary current is 1200-2400A.	An addendum 3 S.No 11 is issued to amend details of SECTION VII 12.11.5 from requirement of "200%" to "120%" and made consistent with Guaranteed Technical Characteristics

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				The seven-core winding structure generates numerous concentrated hotspots with high thermal density. When operating at 200% of the 1200-2400A, because of the large current value, the overall temperature rise will surpass the heat resistance threshold of the insulation. Nevertheless, the dimension of the inner core window of the CT is fixed, leaving insufficient space for heat dissipation. As such, it is not feasible to satisfy the requirement of seven (7) cores, nominal primary current 1200-2400A and the thermal performance capacity for 200% rated current simultaneously. According to 2.5. 330 kV Current Transformer Line Feeder Bay of 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS, 2.5.15 Rating Factor, the Value is 1.2, which is 120% of the rated primary current and is contrary to the 200% requirement stated in the Employer's Requirement. We consider a rating factor of 1.2 stated in the Guarantee Technical Data Sheet to be reasonable for it complies with the design requirements specified in IEC 61869-2, and can be technically realized by manufacturers. Please clarify."	
249.	12.11.7	Section VII – Employer's Requirements	N	In 12.11.7 Current Transformer (CT), it states: "Current Transformers must have a minimum of seven (07) core for normal feeder protection and a minimum of five (05) cores for shunt reactors."	The current transformer data provided in section 12.11.7 refers to Post Mounted CTs while for the shunt reactor bushing

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				However, the technical data sheet for 330kV CT for shunt reactor, which has a minimum of 5 cores, is not provided, please provide the technical data sheet for the contractor to fill out.	CTs the requirements for the five (05) cores referred to are included at 5.1.39 – 5.1.52 of Technical Schedules.
250.	2.6.12	Technical Schedules	Y	In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS - 2.6 330 kV Current Transformer - Transformer Bay, it states in "2.6.12 Nominal current is 100-200/300-600/1200-2400 A" First, because the capacity of the transformer is confirmed, which is 90MVA for 330kV Winding, we fail to understand why such a wide selection range is specified for the primary nominal current of transformer CT. Even taking future transformer capacity expansion into account, this range is still excessively large in practice. Second, the ratio span is too much. If we maintain a 5 VA burden rating at 100 A primary current, the equivalent burden at 2400 A would be $24 \times 5 \text{ VA} = 120 \text{ VA}$. This would result in impractically large secondary windings! Consequently, it is not feasible to accommodate such a broad range of ratios within a single CT unit. Please confirm your required transformation ratio, or specify the exact ratio at which the stated accuracy class must be maintained.	Addendum 3 S.No 3 issued to amend GTS item 2.6.12 from "100-200/300-600/1200-2400" to "100-200/300-600"

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251.	2.6.19	Technical Schedules	Y	In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS - 2.6 330 kV Current Transformer - Transformer Bay, it states in "2.6.19 Measuring cores number and class 2 x 0.2s Fs<5" Since nominal current is 100-200/300-600/1200-2400 A, when at 100A-200A mode, the primary-secondary current ratios is low, the core operates at relatively high nominal flux density. Achieving Fs<5 would push the core near saturation under rated load, causing unacceptable secondary current accuracy for 0.2S class. Dual 0.2S secondary windings impose combined burden on the shared core, further elevating nominal flux density and worsening the trade-off between metering accuracy and instrument security factor. Based on our calculation, if the primary nominal current is 100A-200A, the feasible Fs value for the manufacturer shall be 2 x 0.2s Fs<10. Please clarify.	Refer to RFC 250 and addendum 3 S.No 3
252.	12.20 12.20.6	Section VII – Employer's Requirements	N	In 12.20 Technical Specification for Telecommunication, it states: "The contractor shall supply, install, test, commission and integrate Optical Transport Network (OTN), Packet Transport Network (PTN), Synchronous Digital Hierarchy (SDH), Private Automatic Branch Exchange (PABX), Pulse Code Modulation (PCM) and 48VDC charger equipment at existing and new substations accordingly." and	The requirements given in Section VII 12.20.6 and Guaranteed Technical Schedules 9.26 shall stand

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				In 12.20.6 Packet Transport Network (PTN), the clause gives the requirement/characteristics of PTN. However, in the Employer's Requirements, the model of the PTN equipment is not required. May the contractor at his own discretion select the PTN equipment as long as it meets the Employer's requirement of the tender? Please clarify.	
253.	2.8 0.2.3 2	Section VII – Employer's Requirements Technical Schedules	N	In 2.8 Basic Electrical System Design, "Table 2-1: Electrical system and design data for substations, corrected for altitude according to IEC 60071-2 (Altitude correction factor =1.13)", it states:"0.2.3 Rated short time current (1 sec); 40 kA" In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS, General Requirements, 0.2. Main Design Data 330 kV, 2000 m.a.s.l, "0.2.3 Rated short time current (1 sec) is 40 kA". In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS, for all 330kV Equipment, Rated short-circuit breaking current (3s) is 40kA. We found in the Employer's Requirement, for the rated short time current, there are two expressions. One is 40kA/1s and the other is 40kA/3s. Based on our experience, 40kA/1s is the more reasonable figure, for 40kA/3s equivalent to 69kA/1s, which is too high.	The requirements shall stand. Note that short time current and short circuit breaking current are two separate items that should be considered separately.

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Please clarify whether the rated short time current is 40kA/1s or 40kA/3s.	
254.	4.1	Technical Schedules	N	Contents in Technical Data Sheet 4.1 Power Transformer 330/132(66)/11 kV Since the voltage level of the requested transformers is 330/132(66)/11kV, which means there are two secondary windings, 132kV and 66kV, we would like to know whether the data entered in the technical parameter sheet, such as Impedance Voltage at Rated Power (Primary/Secondary), Impedance Voltage at Rated Power (Secondary/Tertiary), and Guaranteed Load Losses (75°C), shall be based on the operating condition of 330/132/11 kV or 330/66/11 kV? Relevant parameters will differ under different medium-voltage (132 or 66kV) levels. Please Clarify.	Guaranteed values shall be for both 330/132/11kV & 330/66/11kV.
255.	1.3	Technical Schedules	Y	In 1.3 Bison, it states 1) 1.3.13 DC resistance of conductor at 20°C (Guarantee Value) is required 0.0575 ohms/km 2) 1.3.14 Weight per km of conductor is required 2901kg. We believe both values are incorrect, because based on British Sizes BS EN 50182:2001, for Bison ACSR Conductor, the DC resistance of conductor at	Addendum 3 S.No 3 issued to amend details of 1.3.13 from 0.0575 to 0.07573 and details of 1.3.14 from "2901" to "1444"

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				20°C is 0.0758 ohms/km, approximate weight per km is 1442.5kg, which is only half of the required weight. Please make sure whether Bison is the correct conductor that the Employer wants to use, and clarify. And please also clarify whether steel core greasing is mandatory for this conductor design, if so, the weight will be different from the conductor without greasing.	
256.	1.3	Technical Schedules	N	In 1.3 Bison, it states 1) 1.3.15 Initial modulus of elasticity is required 47600 N/mm² 2) 1.3.16 Final modulus of elasticity is required 73200 N/mm² The actual elastic modulus from calculation and production cannot be fully consistent with theoretical values. May we fill in the technical data sheet with elastic modulus figures different from the required value? If not permitted, should the offered elastic modulus be lower or higher than the required value? Since higher and lower elastic modulus each carry respective merits and demerits, there is no absolute superiority for a higher value; selection merely depends on matching specific application scenarios. Please clarify.	The parameters that will give better performance will be acceptable. These could be lower or higher

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257.	1.3	Technical Schedules	Y	In 1.3 Bison, it states:"1.3.20 Gross weight per drum is required <1300 kg" We believe the gross weight per drum is too low. In this case, the cost of the conductor procurement will be increased with no benefit that the Employer will get. Because it is the Contractor, who take to responsibility to undertake the project, therefore, we propose to cancel this <1300 kg requirement or to increase the Gross weight per drum requirement to <4000 to 5000 kg. Please clarify.	Addendum 3 S.No 3 issued to amend details of GTS item 1.3.20 from "<1300" to "Bidder to state"
258.	12.6.9 1.1.2.1	Section VII – Employer's Requirements Price Schedules	Y	In 12.6.9 Cable Sheath of Section VII – Employer's Requirements, it states: "Direct buried cable: the MDPE-sheath is extruded on the cable core followed by an non-metallic armour tape and a water blocking tape longitudinally apply over the inner sheath, and the MDPE-sheath is extruded over the steel tape. Sheath shall contain Carbon Black for ultraviolet light protection and shall not promote the growth of fungus and shall be free of holes, splits and blisters." In "Package 4 Price Schedules" Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad, it states: "1.1.2.1 48-core ADSS non-metallic approach fibre cable with trunking"	The ADSS cable shall have a non-metallic armour. An addendum 3 S.No 11 issued to delete "steel" in SECTION VII 12.6.9

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				In the Employer's Requirement, it requires "the MDPE-sheath is extruded over the steel tape", however, in the Price Schedule, it says "48-core ADSS non-metallic approach fibre cable", the two are contrary to each other. We would like to know which one we shall follow? Please clarify.	
259.	7.1	Technical Schedules	N	In 7.1 11 kV Power Cable, it states: "Screen longitudinal water sealing system shall be on Bidder to state" In Employer's Requirement, we did not find there is any requirement for longitudinal water sealing. However, in the technical schedule, it requires the Bidder to fill in. We would like to know whether longitudinal water sealing is required for 11kV cable of this project or not. Please clarify.	The requirement of Guaranteed Technical Schedules 7.1.12 shall stand
260.	12.17.1.1 11.4.8	Section VII – Employer's Requirements Technical Schedules Price Schedules	Y	In 12.17.1.1 Design of 12.17.1 Distribution Transformers The transformer shall be designed for outdoor operation and continuous service. 250 kVA transformers	Refer to RFC 114 and addendum 3 S.No 3

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	1.1.15.8.1			In 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS 11.4 33/0.4 kV Housing Distribution Transformer, 11.4.8 Rated power is required 200 kVA In Price Schedules - Package4_Section4: Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad, it states: "1.1.15.8.1 100KVA 33/0.4kV Transformer complete with Protection equipment (HT and LV fuses) and accessories for Housing Complex on a structure of H-pole configuration" We found discrepancies in the capacity requirements for the Housing Distribution Transformer among the Price Schedules, Owner's Requirements, and Technical Schedules Package (100kVA, 250kVA, 200kVA). Could you please clarify which document should be taken as the authoritative reference? And moreover, the technical data sheet for 33/0.4kV Distribution Transformer is not provided, please add the technical data sheet for the contractor to quote the right equipment.	
261.	1.1.6.1 1.1.6.2 1.1.6.3 1.1.7.1	Price Schedules	Y	1.1.6.1 330kV Single Phase Current Transformer (7-core) complete with supporting structures 33 each 1.1.6.2 330kV Single Phase Capacitive Voltage Transformer complete with supporting structures 27 each	Refer to RFC 3, 118, 119, and addendum 3 S.No 2, 4, 5

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				1.1.6.3 132kV Current Transformer (CT) complete with supporting structures 18 each 1.1.7.1 330kV Single-Phase Surge Arrestor complete with supporting structures 30 each We have found discrepancies between the quantities of certain equipment specified in Package 4 Price Schedules - Schedule 1 and those shown in the single-line diagram (SLD), as detailed below: 1.1.6.1: The quantity of single-phase 330kV CTs is listed as 33 units, while the SLD indicates 30 units. 1.1.6.2: The quantity of single-phase 330kV CVTs is listed as 27 units, while the SLD indicates 18 units. 1.1.6.3: The quantity of single-phase 132kV CTs is listed as 18 units, while the SLD indicates 15 units. 1.1.7.1: The quantity of single-phase 330kV SAs is listed as 30 units, while the SLD indicates 27 units. We request the Employer to clarify whether the SLD provided in the tender documents is accurate or requires revision. If the SLD is correct, please clarify whether the equipment quantities in the Price Schedule shall be modified in accordance with the SLD, or the Contractor shall prepare the quotation based on the quantities stated in the Price Schedule.	

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262.	1.1.32.22	Price Schedules	N	1.1.13.22 OTN analyser The OTN Analyser listed in the Price Schedule is not specified with clear model specifications and functional requirements. A variety of OTN analysers with different functions are available on the market; however, they may not comply with the specific requirements of this project. We hereby request the Employer to provide the definitive model designation and detailed functional definitions, so that we can deliver the compliant products accordingly.	The bidder shall endeavor to provide an analyser that meets the minimum requirements as per the OTN functionality under SECTION VII 12.20.4.
263.	1.1.19.1	Price Schedules	Y	1.1.19 11kV Board 1.1.19.1 Complete supply of metal clad indoor Air Insulated Switchgear (AIS) 2 each According to Drawing "E-330 kV Nakonde Stepdown Substation 11kV Aux SLD", there has to be 5 Metal Clad Air Insulated Switchgears, which is different from required 2 11kV Switchgears in Price Schedule. Please clarify.	Refer to RFC 143 and addendum 3 S. No 5
264.	1 – Table 3	Section III – Evaluation and Qualification Criteria	N	In Table 3: Minimum Criteria of Major Equipment, 2 Transformers and Reactors, it states: "Valid type test certificates from an independent institute not older than 8 years. If type-test reports are older than 8 years, the Bidder shall perform selected confirmatory type tests on a representative production unit to re-validate critical performance parameters at an	Refer to RFC 124

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				ISO/IEC 17025 accredited laboratory. The representative unit shall be of the same model family, rating, and internal design as the originally type-tested unit. Test items and acceptance criteria shall comply with the relevant IEC standards." The Power Transformer for this project is 330/132(66)/11kV 90/90/10MVA, such transformer is not an usual type. Therefore, it is almost impossible to obtain type test reports for transformers of the same model manufactured within the past 8 years. May type test reports for transformers of the same or higher voltage rating and equal or larger rated capacity be accepted as substitutes? Please clarify.	
265.	1.1.14.1 1.1.14.6	Price Schedules	Y	1.1.14.1 "GPS clock/time server complete with antenna and accessories" 1.1.14.6 "GPS clock/time server complete with antenna and accessories" The contents of Item 1.1.14.1 and Item 1.1.14.6 are the same. Please clarify whether there is any duplication.	An addendum 3 S.No 5 issued to delete item 1.1.14.6
266.	1.3.10 1.3.25	Price Schedules	Y	1.3.10 SAS Integration Demo Kit complete with IEDs and Client 1.3.25 SAS Integration Demo Kit complete with IEDs and Client	An addendum 3 S.No 5 issued to delete item 1.3.25

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				The contents of Item 1.3.10 and Item 1.3.10 are the same. Please clarify whether there is any duplication.	
267.	14	Section VIII – General Conditions of Contract	N	Please confirm whether the contractor shall pay the customs duties, VAT and claim reimbursement from Employer or Employer shall provide exemption certificate at the time of import.	Refer to RFC 16
268.	14	Section VIII – General Conditions of Contract	N	1. Please confirm whether VAT and other local taxes is applicable on Installation/construction portion. If it is applicable, then please confirm our understanding that the contractor shall invoice to Employer the price as per price schedule plus VAT at the time of billing and Employer shall pay the same. If it is exempted, Employer shall provide exemption certificate. 2. Please confirm if VAT & other local Taxes is exempted for this project. Further, please confirm whether the same exemption can be extended to Subcontractor and local supplier also who will be working in association with Contractor. 3. Please confirm whether any withholding tax is applicable on payments made by the Employer to contractor towards:	Refer to RFC 16

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				a) Offshore portion i.e. imported supply, b) Onshore portion i.e. installation/ construction portion. 4. We understand that Import License for Material imported into the Employer's Country shall be taken by the Employer. Further, we also understand that Employer shall be named as Consignee for clearing of import of goods. Please confirm.	
269.	14	Section VIII – General Conditions of Contract	N	Please confirm whether any contract registration fees/ Stamp duty is applicable.	The requirements of SECTION VIII clause 14 shall stand. Information provided is sufficient for bidding purposes
270.	25.2.2	Section IX – Particular Conditions of Contract	Y	Commissioning and Operational Acceptance The clause states that “The Guarantee Test of the Facilities shall be successfully completed within 730 Days from the date of Completion” We understand this is a typo error (i.e. should be 30 days and not 730 days). Please confirm.	An Addendum 3 S. No 14 has been issued to amend the details of PCC 25.2.2 as follows: <i>“The Guarantee Test of the Facilities shall be successfully completed within 30 Days from the date of Completion.”</i> and addition of the following “Successful completion of the guarantee Test does not relieve the contractor of it’s obligation during the Defects

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					<i>Liability Period. Final acceptance should remain subject to expiry of the applicable defects Liability period and rectification of all identified</i>
271.		Section X – Contract Forms, Appendix 2. Price Adjustment	N	Price Adjustment Please confirm the 'Date of Adjustment' shall be the date of shipment.	The requirement in Appendix 2 – Price Adjustment shall stand: "The date of adjustment shall be the mid-point of the period of manufacture or installation of component or Plant."
272.	12.4	Section VII – Employer's Requirements	N	FAT & Training Allowance Does the daily allowance for training and FAT need to be considered by the contractor? If it is needed, please provide the rate for per day.	Refer to RFC 67
273.	PCC 30.1 (b)	Section IX – Particular Conditions of Contract	N	Limitation of Liability As per the referred Clause No.30.1(b) of PCC, the Limitation of Liability is the multiplier of the Contract Price is 1.1 times	Refer to RFC 68

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				Generally, in all other ICB tenders, the total liability of the Contractor under the Contract shall not exceed the Contract Amount. i.e. the multiplier applicable to the Contract Amount is 1 (One). Hence, we would request the employer to kindly reduce/amend the Limitation of Liability clause as "the multiplier of the Contract Price is 1 (One)". Kindly confirm.	
274.	PCC 27.10	Section IX – Particular Conditions of Contract	Y	Defect Liability We understand that the critical components covered under the extended defect liability are transformers, reactors, circuit breakers, disconnectors, instrument transformers, SAS and WAMPACs, and the period shall be 12 months from the date of Operational Acceptance of the Facilities. Please confirm.	Addendum 3 S.No 11 issued to amend details SECTION IX PCC 27.10 from 12 months to "36 months" for extended DLP
275.	13.2 & 13.3	Section VIII – General Conditions of Contract	N	We understand Advance and Performance Bank guarantee from a reputable Bank in India, will be acceptable. Kindly confirm our understanding.	The requirements of GCC 13.3.2 shall apply. There is no restriction on the country of origin for the advance or performance guarantee
276.	31.1	Section VIII – General Conditions of Contract	N	Transfer of Ownership	The provisions of GCC 31.1 applies

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				We note that "Ownership of the Plant to be imported the Site is located shall be transferred to the Employer mode of transport" From the above we understand that ownership of the material shall be transferred to the employer upon loading of the materials on the mode of transport. Please confirm.	Refer to RFC 192
277.	31.1	Section VIII – General Conditions of Contract	N	Transfer of Ownership We understand Import License for all Plant and Material imported into the Employer's Country shall be taken by the Employer. Please Confirm.	Refer to RFC 192
278.	13.2 & 13.3	Section VIII – General Conditions of Contract	N	Please confirm that Performance Security & Advance Security in the form of Insurance Bond from an Insurance Company in India is acceptable.	The requirements of GCC 13.3.2 shall stand. The Contractor shall provide Advance Bank Guarantee and Performance Bank Guarantee in accordance with the form in Section X Contract Forms

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
279.		Section X – Contract Forms, Appendix 2. Price Adjustment	N	As per Appendix 2. Price Adjustment – We understand that we can propose separate formula of Price Adjustment for Supply materials (Transformers, Reactors, Circuit Breakers, Disconnectors, Instrument Transformers, etc.) & Construction activities (Foundation, installation, etc) individually. Kindly confirm that our understanding is correct.	Price Adjustment for this Contract shall follow the formula and indices stated in Appendix 2 – Price Adjustment, no other formulas or indices are allowed.
280.		Section VII – Employer's Requirements Drawings	N	D-330 kV Nakonde Stepdown Substation SLD & 11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED Busbar current ratings are not indicated in the SLD nor in the specifications. Please specify.	Reference is made to Section VII Clause 12.5.2. There the number and type of conductor is stated. Therefore the busbar current rating shall be equivalent to the type stated
281.		Section VII – Employer's Requirements Drawings	N	D-330 kV Nakonde Stepdown Substation SLD & 11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED Type of conductor for bays is not specified. Please specify the conductor type to be considered.	Reference is made to Section VII Clause 12.5.2. There the number and type of conductor is stated.
282.		Section VII – Employer's Requirements Drawings	Y	D-330 kV Nakonde Stepdown Substation SLD & 11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED SLD discrepancy observed: SA and CVT are not shown in the SLD, whereas they are included in the price schedule. SA and CVT are also not indicated	Refer to RFC 3, 118, 119, and addendum 3 S.No 2, 4, 5

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				for Bus Reactor Bay, Shunt Reactor Bay, and Transformer Bay. We understand that the quantities specified in the price schedule shall govern. Please confirm.	
283.	1.5	Technical Schedules	N	Tension Insulator Set As observed during the site visit at Kasama Substation, a single insulator string is used for the 330 kV line. However, Technical Schedule Item 1.5 (Tension Insulator Set) specifies an electro-mechanical failing load of 2×160 kN. We understand that a single porcelain insulator string with an electro-mechanical failing load of 1×160 kN shall be acceptable in line with the existing substation configuration. Please confirm and update the Technical Schedule accordingly.	New installations differ at this point from existing. Requirement of the Guaranteed Technical Characteristics item 1.5 shall stand.
284.	12.9	Section VII – Employer's Requirements	N	Disconnectors We understand that bus transfer switching duty is not required for disconnectors. If bus transfer switching capability is required, please specify the applicable disconnectors/bays and the corresponding quantity for which this duty shall be considered.	Refer to RFC 21

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
285.	12.10	Section VII – Employer's Requirements	N	Disconnectors with Earth Switch We understand that induced overcurrent rating is not applicable for earthing switches. Please confirm.	Refer to RFC 21 and Guaranteed Technical Schedules 2.4 and 3.3.
286.	1.2.8.2	Price Schedules	Y	36kV Surge arresters (for neutrals of 3x10MVA reactors to protect NCR against over-voltages) 36kV Surge arresters (for neutrals of 3x10MVA reactors to protect NCR against over-voltages) are mentioned for Kasama Substation as 2 lots. We understand that 2 Nos. surge arresters are required. Please confirm.	Refer to RFC 12 and addendum 3 S.No 5
287.	Surge Arres- tor 330 kV, 66 kV & 11 kV	Technical Schedules Package 4 Substations	N	Surge Arrestors The datasheet specifies maximum steep current impulse residual voltage (1/20 μ s, 10 kA) $\leq$ 535 kV and maximal residual voltage (8/20 μ s, 10 kA) $\leq$ 660 kV. Since the steep current impulse residual voltage is generally expected to be higher than the 8/20 μ s residual voltage, kindly review and confirm the correctness of the stated values.	The requirements of Guaranteed Technical Schedules 2.8 and 3.7 shall stand
288.	5.2 Neutral Compensat- ing Reactor 35 kV	Technical Schedules Package 4 Substations	N	Neutral Compensating Reactor 35 kV NGR fault current of 40 kA for 3 seconds appears excessively high for an NGR application. Please specify the actual requirement. Also, please specify	The requirements in Guaranteed Technical Schedules 5.2 for NCR ratings shall stand and the NCR shall be subject to requirements found in Price Schedule item 3.1.3

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				the continuous current rating and HV neutral bushing current rating.	
289.	12.23	Section VII – Employer's Requirements	N	11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED-12.23 Technical Specification for Earthing and Lightning Protection Earthing Desing Please specify the soil resistivity value to be considered for earthing system design.	Refer to S1_Geotechnical Report Nakonde Stepdown and the Contractor to make measurements using the provided information.
290.	1.1.15.7	Technical Schedules Package 4 Substations Price Schedules	N	500kVA 11/0.4kV Station Service Transformer Please provide Technical data sheet for the transformer in BOQ '1.1.15.7, 500kVA 11/0.4kV Station Service Transformer.	Refer to Guaranteed Technical Schedules 8.1.
291.	1.1.15.8.1	Technical Schedules Package 4 Substations Price Schedules	N	100KVA 33/0.4kV Transformer Please provide Technical data sheet for the transformer BOQ '1.1.15.8.1, 100KVA 33/0.4kV Transformer.	Refer to Guaranteed Technical Schedules 11.4.
292.			N	Telecom Please specify whether we can propose 10G/100G PTN one box solution based on MPLS-TP FOTE. MPLS-TP is a proven technology for mission critical communication networks.	Requirements shall be as SECTION VII 12.20.6

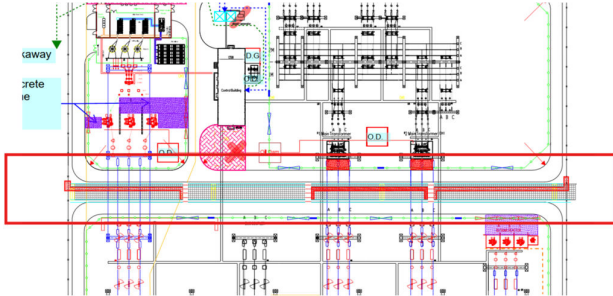
S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
293.	8.4 8.5	Technical Schedules Package 4 Substations	N	Technical Schedules Package 4 Substations - 8.4 Battery charger 110 VDC, 8.5 Battery Chargers 48 V DC Battery Charger Please specify Battery Charger Rating required .	Refer to Guaranteed Technical Schedules 8.4 and 8.6 respectively. When state "To be stated by Bidder" this means that it depends on the Contractors approved design fulfilling the requirements and cannot be firmly stated.
294.	12.16.23	Section VII – Employer's Requirements	N	11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED- 12.16.23 Emergency Diesel Generator. Emergency Diesel Generator Are there any specific engine or alternator makes required in the approved list? We presume Baudouin engine with a Stamford alternator shall be acceptable.	All requirements shall be fulfilled. Refer to Guaranteed Technical Schedules item 8.2
295.		Drawings – SLD	N	D-330 kV Nakonde Stepdown Substation SLD Please specify Line Length for line as mentioned in the SLD 1. 330kV Nakonde Substation to Tunduma Substation 2. 132kV Nakonde SS to Existing Nakonde Substation 3. 132kV Nakonde SS to ISOKA 1 Substation.	Refer to S7_ESIA Report-Executive Summary-Project Description

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
296.			N	Remote End substation CRP SAS Please specify the make and model of the existing CRP/SAS equipment at the remote end substations for Nakonde Substation interconnections, namely: 330 kV Tunduma Substation 132 kV Isoka 1 Substation 132 kV Existing Nakonde Substation	Note that information provided is sufficient for bidding purposes
297.	1.1.13.26	Price Schedules	Y	Air conditioning As per price schedule - item- 1.1.13.26 - Free stand alone airconditioning unit 48000 BTU is specified, Please provide detailed air-conditioning and ventilation requirements for each room, including ventilation rates and AC capacities.	Refer to RFC 147 and addendum 3 S.No 5
298.		Price Schedules	Y	Air conditioning As per price schedule for Kasama Substation, Relay Room Air conditioners are split unit. Please specify the required rating and quantity.	Addendum 3 S.No 5 issued to amend Price Schedule item 1.2.18.2 from "split unit" to "floor standing" Refer to addendum 3 S.No 9 for added drawing A2-PP-ZTIP003-ODSS-Refurbishment Works at Kasama Substation_REV00_30062026 for air conditioning specifications

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
299.	4.2.19.13	Price Schedules	Y	Kasama – Refurbishment of access road Please provide the sectional drawing of the existing access road, including dimensions and construction details for Refurbishment.	Addendum 3 S.No 5 issued to delete Item 4.2.19.13. Pursuant to the CIP contract terms, the bidder shall assume responsibility for transport.
300.	4.1.19.5.3	Price Schedules	Y	Nakonde – Site Layout Please provide the site layout with Plot Boundary Fence.	Refer to RFC 96 and addendum 3 S.No 9
301.	4.1.19.1.3	Price Schedules	Y	Nakonde – Removal of rocks Please clarify rock removal area to be considered for estimation as stated in price schedule, SCHEDULE 4_ CL.4.1.19.1.3.	Refer to addendum 3 S.No 9 for added Drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026
302.	4.1.19.3.6	Price Schedules	Y	Nakonde – Slipway As per layout of Nakonde substation provided in tender document, Spillway is shown in layout. Kindly provide detailed technical specification and sectional drawing for spillway.	Information provided in amended drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 is sufficient for slipway
303.	4.1.19.1.6 4.1.19.1.4	Price Schedules	Y	Nakonde – Import Material - G5 Gravel As per price schedule, Schedule 4 mentioned in clause no 4.1.19.1.4 cut to fill item mentioned for land development. Please clarify whether same cutting quantity material can be used as filling quantity	Refer to RFC 58 and addendum 3 S.No 9



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S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				material or other item number mentioned in Schedule 4 clause no 4.1.19.1.5 and 4.1.19.1.6 i.e. G5 is to be used as filling material only. Please Clarify.	
304.	4.1.19.4.14 4.1.19.4.15	Price Schedules	Y	Nakonde – Gabion wall As per layout, Hatch lines- Gabion wall is shown around retaining wall. Please clarify whether gabion wall is to be constructed around retaining wall. 	Refer to RFC 9 and addendum 3 S.No 4 for the amended PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 and Retaining wall cross section drawing_ REV00_30062026
305.	4.1.19.3.4	Price Schedules	Y	Nakonde – Staff housing area As per Price schedule - Staff houses - 1. 150m2 and 2. Type 'B' are to be constructed. However, location is not shown in layout. Please provide the location for Staff houses 1. 150m2 and 2. Type 'B'.	Refer to RFC 62, 96 and addendum 3 S. No. 9
306.	4.1.19.7.1 4.1.19.7.2 4.1.19.7.3	Price Schedules	Y	Nakonde – Roof Truss / Roof Slab	Refer to RFC 106 and addendum 3 S.No 11

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	4.2.19.19 4.0.4.1 4.0.4.2			As per detail architecture drawing received, Guard House, Staff House and Generator House for Kasama Substation shall have wooden type truss. Please confirm the type of truss for all buildings in Nakonde substation. Further type of truss for control room building is not mentioned. Kindly conform the type of truss for Control room building. Also, confirm whether RCC Roof Slab can be considered for Guard House, Staff house, Generator House and Control room building.	As per addendum, only control building will have concrete roofing
307.	4.1.19.7.1 4.1.19.7.2 4.1.19.7.3 4.2.19.19 4.0.4.1 4.0.4.2	Price Schedules	Y	Nakonde – False Ceiling As per architecture drawings, the False Ceiling support item i.e. Particle Board Support Bandering type stated as wooden type for Staff houses but same item is not mentioned for other buildings such as Control room building, Guard Houses and Generator House, kindly confirm the false ceiling support type (steel or wooden) for other buildings.	Refer to drawing S17_Finishes Schedule for Substation Buildings_rev02
308.	17	Section VII – Employer's Requirements	Y	According to Clause 17 (Drawings) of the Main Tender Documents, the following drawings are listed as part of the tender documentation: - A2. PP-ZTIP003-ODSS-C001 - Kasama Substation as-built drawing for the control building	Refer to addendum 3 S.No 1 Addendum 3 S.No 9 issued to include drawing N_2-Zesco Standard Guard House_ Big Guard House Window SCHEDULE_REVA_012020 and

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				- G. 33 PP-ZTIP-P04-ODSS-C101 – Nakonde Stepdown_Control Building (Ground Floor Plan) - N 2. ZESCO Standard Guard House _ Big Guard House Window Schedule - R 2. WAMPACS drawings applicable for new Nakonde Stepdown Substation However, after reviewing the file “11052026_ZTIP_Drawings_Package_Nakonde SS”, we were unable to locate the above-mentioned drawings. Kindly provide the mentioned four drawings listed above.	R2_WAMPACS drawings applicable for new Nakonde Stepdown Substation_REV00_12112020
309.	1.1.6.1 1.1.6.2 1.1.6.3 1.1.7.1 1.1.7.3 SLD	Price Schedules Drawings	Y	Price Schedules---Sch 1 Materials----1.1.6.1 330kV Single Phase Current Transformer (7-core) complete with supporting structures&1.1.6.2 330kV Single Phase Capacitive Voltage Transformer complete with supporting structures &1.1.6.3 132kV Current Transformer (CT) complete with supporting structures&1.1.7.3&1.1.7.1&D-330 kV Nakonde Stepdown Substation SLD Kindly confirm the following matters: The number of devices listed in the Price Schedules does not match the number of devices in the SLD. The quantity displayed in the Price Schedules is	Refer to RFC 3, 118, 119, and addendum 3 S.No 2, 4, 5

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				greater than that in the SLD. Please clarify whether the specific quantity should be based on the SLD.	
310.	11.2.25	Section VII – Employer's Requirements	Y	Section VII – Employer's Requirements Package 4--11.2.25 Civil Works • Substation Land Extents – Boundary/ Perimeter fencing (500m x 1000m) • Substation Perimeter – Security fencing (310m x 250m) • Terrace Boundaries – Safety fencing (refer to Site Layout) • Design, supply and construction of control building and six houses (three (03) 150 m2 and three (03) Type B) for operators • Construction of reinforced concrete roads and pavements (inclusive of road markings, kerbing, and reinforced concrete stormwater drainage channels), as per the list below: • 6m wide concrete substation access road within the plot up to the switchyard fence of approximately 1500 meters) • 1000m2 of reinforced concrete paving from the access road up to the control building – same construction standard as the internal concrete road • 6m wide concrete substation external access road of approximately 200 meters • 6m wide concrete substation external access road from substation gate 2 via the housing	- For location of substation, refer to RFC 96 and addendum 3 S.No 9 - For 1000mx500m land leveling and substation housing, refer to addendum 3 S.No 9 for added PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 and and Retaining wall cross section drawing_REV00_15062026 - For roads, information provided is sufficient for bidding purposes

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				complex to asphalt access road of approximately 1 300 meters - o Construct 9m wide (7m-main carriageway + 2m-shoulders) asphalt access road from the main road complete with drainage on both sides. (This shall include road markings, kerbing, reinforced concrete stormwater drainage channels & culverts, and any other road furniture which meet the standard requirements of the Road Development Agency - RDA). Road chainage length is approximately 1.5 km Kindly confirm the following matters: - Based on our understanding, the land within the current 1000x500 scope needs to be uniformly leveled, and a substation as shown in the layout plan should be constructed. At the same time, the location area for the future 400KV switchyard should be reserved. However, currently, we have only received the location of the new substation and have not seen the specific reserved location area. Could you please provide the overall planning map. - Regarding the specific layout areas of the six buildings, we have not found them in the bidding documents and drawings. Please provide a planning area map so that we can proceed with the design.	

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				The description of the road is relatively complex. Please also provide a road planning map so that we can proceed with the design. 	
311.		Drawings	Y	11052026_ZTIP_Drawings_Package4_Nakonde SS Kindly confirm the following matters: For this project, could you please provide the DWG versions of the following drawings to facilitate our design work. A1-Kasama Substation Layout	Refer to addendum 3 S.No 2 and 4. Refer to RFC 236 and Addendum 3 S.No 9 Information provided is sufficient for bidding purposes

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				- o C-NAK-330 kV Nakonde Stepdown Substation Layout - o S3_330 kV Nakonde Stepdown Substation Topographic Map 1 - o S4_330 kV Nakonde Stepdown Substation Topographic Map 2 Especially for S3 and S4, the surveying and mapping drawings in PDF format cannot be used for earthwork quantity balance calculation. Please provide the DWG version of the files for the calculation.	
312.	1.1.6.1 1.1.6.2 1.1.6.3 1.1.7.1	Price Schedules	Y	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad 1.1.6.1 330kV Single Phase Current Transformer (7-core) complete with supporting structures, 33 each 1.1.6.2 330kV Single Phase Capacitive Voltage Transformer complete with supporting structures, 27 each 1.1.6.3 132kV Current Transformer (CT) complete with supporting structures, 18 each 1.1.7.1 330kV Single-Phase Surge Arrestor complete with supporting structures, 30 each There is a discrepancy between the quantity of some equipment stated in Price Schedules - Package4_Section4 and that shown on the single line diagram. Please verify and confirm: Item 1.1.6.1: The	Refer to RFC 3, 118, 119, and addendum 3 S.No 2, 4, 5

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				quantity of single-phase 330kV CT is 33 units in the list, while 30 units are indicated on the single line diagram. ·Item 1.1.6.2: The quantity of single-phase 330kV CVT is 27 units in the list, while 18 units are indicated on the single line diagram. · Item 1.1.6.3: The quantity of single-phase 132kV CT is 18 units in the list, while 15 units are indicated on the single line diagram. ·Item 1.1.7.1: The quantity of single-phase 330kV SA is 30 units in the list, while 27 units are indicated on the single line diagram.	
313.	11.2.5	Section VII – Employer's Requirements	Y	Section VII – Employer's Requirements Package 4 11.2.5 Auxiliary Power Supply: The power for the substation's auxiliary service shall be supplied from the tertiary windings of the main Power Transformers via 11kV cables and switchgear, two 500kVA, 11/0,4kV Station Transformers down to a Main 400V switchgear. Please confirm whether the station transformers are designed as combined earthing transformers, and provide the wiring connection specifications for the station transformers.	Refer to RFC 246 and addendum 3 S.No 10
314.	1.1.14.1 1.1.14.6	Price Schedules	Y	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad 1.1.14.1 GPS clock/time server complete with antenna and accessories	Refer to RFC 265 and addendum 3 S.No 5

S. No.	Specification Clause	Document Reference	Addendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				1.1.14.6 GPS clock/time server complete with antenna and accessories. We believe that Item 1.1.14.1 and Item 1.1.14.6 have the same content and might have been counted twice. Please verify and confirm.	
315.	1.3.10 1.3.25	Price Schedules	Y	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad 1.3.10 SAS Integration Demo Kit complete with IEDs and Client 1.3.25 SAS Integration Demo Kit complete with IEDs and Client. We believe that Item1.3.10 and Item 1.3.25 have the same content and might have been counted twice. Please verify and confirm.	Refer to RFC 266 and addendum 3 S.No 5
316.	Schedule No. 1	Price Schedules	N	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad of 330kV NAKONDE STEPDOWN SUBSTATION Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad" of 330kV NAKONDE STEPDOWN SUBSTATION does not include items for cable supports, cable conduits, lighting systems,. Is it acceptable for our	Price Schedule 4.1.19.7.1 has these items included under furnishes for the control building

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				company to create a separate line item 'Miscellaneous - 330kV NAKONDE STEPDOWN SUBSTATION' and provide a quotation for it? Please confirm.	
317.	Schedule No. 1	Price Schedules	N	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad of KASAMA SUBSTATION Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad of KASAMA SUBSTATION does not include items for cable supports, cable conduits, lighting systems, and other miscellaneous works. Can our company add them to "Miscellaneous - Kasama S/S" and provide a quotation? Please clarify.	Price Schedule 1.2.19.1 has these items included under furnishes for the control building
318.	11.1.14 Schedule No. 1	Section VII – Employer's Requirements Price Schedules	Y	Section VII – Employer's Requirements Package 4 : 11.1.14 Surveillance and Access Control Systems(P374) Section VII – Employer's Requirements Package 4 : 11.1.14 Surveillance and Access Control Systems said that "The Contractor shall design, supply, install, test and commission an integrated Closed-Circuit Television (CCTV) Surveillance and Access Control systems" , but this item is not listed in KASAMA Substation's "Package 4 Price Schedules -	Refer to RFC 185 and addendum 3 S.No 5 The requirements stated in SECTION VII 11.1.14 shall stand



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S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad". Please confirm if it is required?	
319.	1.3.10 1.3.25	Price Schedules	Y	Package 4 Price Schedules - Schedule no 1 - Plant and Mandatory Spare Parts Supplied from Abroad of 1.3 Employer's Project Management 1.3.10 "SAS Integration Demo Kit complete with IEDs and Client". 1.3.25 "SAS Integration Demo Kit complete with IEDs and Client". We believe that Item 1.3.10 and Item 1.3.25 have the same content and might have been counted twice. Please verify and confirm.	Refer to RFC 266 and addendum 3 S.No 5

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
320.		Technical Schedules	N	Technical Schedules Package 4 Substations- ---330 kV Equipment and 132 kV Equipment 330KV Minimum Creepage distance 13316mm 132KV Minimum Creepage distance 5334mm Kindly confirm the following matters: - Currently, the maximum creepage distance for 420KV equipment can reach 13020mm. If the TDS requirement of 13316mm is to be met, equipment with a higher voltage level is needed(550KV). Please clarify whether this creepage distance requirement can be modified. - Like 330KV equipment, 132KV equipment requires a higher creepage distance, which exceeds the calculated value. Please clarify whether this parameter can be modified.	The requirements provided for in Guaranteed Technical Characteristics 0.2 and 0.3 shall stand
321.	2.1.22 2.1.23	Technical Schedules	Y	Technical Schedules Package 4 Substations---- 330 kV Circuit Breaker 2.1.22 Operating mechanism :spring 2.1.23 Circuit for point-on wave relay-- Required for shunt reactor	- Requirements in Guaranteed Technical Characteristics item 2.1.22 shall stand - Refer to RFC 20 and addendum 3 S.No 3

S. No.	Specification Clause	Document Reference	Ad-dendum Re-quired [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE																		
				Kindly confirm the following matters: - After consulting multiple manufacturers, it has been found that most of the operating mechanisms for this circuit breaker utilize hydraulic mechanisms. Please clarify whether hydraulic mechanisms can also be used for this circuit breaker. "Circuit for point-on wave relay", please clarify whether this requirement must be met. The point-on wave relay can be provided by relay protection manufacturers such as Schneider, ABB, NR, etc																			
322.	11.2 12.17.4	Technical Schedules Section VII – Employer's Requirements	N	Technical Schedules Package 4 Substations---- 11.2 ABC 3x120+70 <table border="1"> <thead> <tr> <th>Number of phase conductors</th><th>Phase conductor Cross-sectional area</th><th>Supporting core cross-sectional area</th><th>Current rating</th><th>Short-circuit rating</th><th>Maximum Design Load</th></tr> <tr> <th>n</th><th>mm²</th><th>mm²</th><th>A</th><th>kA</th><th>kN</th></tr> </thead> <tbody> <tr> <td>4</td><td>120</td><td>70</td><td>283</td><td>11</td><td>8</td></tr> </tbody> </table> Kindly confirm the following matters: The table for ABC cables in the bidding documents shows a 4+1 configuration, whereas the	Number of phase conductors	Phase conductor Cross-sectional area	Supporting core cross-sectional area	Current rating	Short-circuit rating	Maximum Design Load	n	mm ²	mm ²	A	kA	kN	4	120	70	283	11	8	Note that Guaranteed Technical Characteristics 11.2.7 and 11.2.8 refer to cores within the ABC cables (three phase four wire). Information provided shall stand
Number of phase conductors	Phase conductor Cross-sectional area	Supporting core cross-sectional area	Current rating	Short-circuit rating	Maximum Design Load																		
n	mm ²	mm ²	A	kA	kN																		
4	120	70	283	11	8																		

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				Technical Schedules indicate a 3x120+1x70 configuration. Please clarify this requirement.	
323.	12.18.7	Section VII – Employer's Requirements	N	Part 2- Employer's Requirements Package 4 - Clause 12.18.7 Cables and Wires The cables to be used shall be of multi-core 600/1000 V grade, be fire retardant, zero halogen and low combustible type with copper conductors and copper screen Kindly confirm the following matters: - Please clarify whether the copper shielding layer is only used for control cables. Under normal circumstances, copper shielding layers are not required for low-voltage power cables. 11KV medium-voltage cables have copper shielding layers. - Please clarify whether copper wire braiding shielding or copper tape shielding is adopted for this project.	Cable specifications in SECTION VII shall be used in conjunction with Guaranteed Technical Schedules
324.	11.2.25	Section VII – Employer's Requirements	Y	Part 2- Employer's Requirements Package 4--- 11.2.25 Construction of two (2) new Guard Houses at the entrance gates at the perimeter fence (500m by 1000m); Substation fencing	Refer to addendum 3 S.No 4 for amended PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026 Refer to RFC 149 and addendum 3 S.No 5

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				shall be designed, supplied and installed, complete with gates (both fixed and removable, where appropriate) for the following: - Levelling, compaction with 0.5% slope suitable for drainage and installation of yard stone over the whole substation area; Kindly confirm the following matters: - Due to the current lack of an overall planning map, it is impossible to determine where the two security guard rooms are located. Please provide a schematic plan of the entire land acquisition area. Currently, there is only a conceptual map of the substation area, which cannot reflect the layout of roads, residential areas, and security guard rooms within the entire land acquisition area (1000x500m). - Please clarify whether our company is only responsible for site leveling within the substation fence. Please clarify whether site leveling and gravel paving are required for other reserved areas within the land acquisition scope. Due to the significant elevation difference on site, this work will incur high costs.	

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325.	1.1.15.4 1.1.15.B230:B2529	Price Schedules	N	Price Schedules - Package4_Section4---Sch 1 Materials - o 1.1.15.4 Sergi Fire Protection for the transformers - o 1.1.15.B230:B2529 Kelman Online Dissolved Gas Analysis or equivalent Kindly confirm the following matters: • Please clarify whether the fire protection for transformers must use the Sergi brand. • Please clarify whether the DGA equipment must be sourced from the Kelman brand. • Please clarify whether the OLTC must be sourced from the MR brand. • Please clarify how to determine the corresponding equivalent brands if other brands can be adopted. It is suggested that the employer specify several brands.	The requirements given shall be used in conjunction with Guaranteed Technical Characteristics 4.1.27, 14.1 and 14.2 and are sufficient.
326.	1.1.14.1 1.1.14.3 1.1.14.6 1.1.14.8	Price Schedules	Y	Price Schedules - Package4_Section4---1.1.14 SAS • 1.1.14.1 GPS clock/time server complete with antenna accessories • 1.1.14.3 Substation Automation System including redundant gateway servers and Redundant HMI servers.	Refer to RFC 265 and 266 and addendum 3 S.No 5

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				1.1.14.6 GPS clock/time server complete with antenna and accessories 1.1.14.8 SAS Panels complete with HMI Server and Gateway in redundancy configuration Kindly confirm the following matters: - GPS devices are listed repeatedly. Please clarify whether to cancel 1.1.14.6 - Is SAS and the gateway listed repeatedly, and is it necessary to delete 1.1.14.8	
327.	1.3.10 1.3.25	Price Schedules	Y	Price Schedules - Package4_Section4---1.3 Employer's Project Management 1.3.10 SAS Integration Demo Kit complete with IEDs and Client 1.3.25 SAS Integration Demo Kit complete with IEDs and Client Kindly confirm the following matters: - These two items are repetitive. Please clarify whether one of them should be deleted.	Refer to RFC 266 and addendum 3 S.No 5



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328.		D-330 kV Nakonde Stepdown Substation SLD	Y	Kindly confirm the following matters: According to the available information, the reactors at Kasama Substation are not equipped with independent current transformers. Similarly, the floor plan of Nakonde Substation does not show separate current transformers for the reactors. Therefore, please clarify whether it is necessary to install separate current transformers for the reactors. This clarification is specifically requested for the reactor circuit of Nakonde Substation, as the SLD display at Kasama uses a bushing CT for the reactor.	Refer to RFC 3 and addendum 3 S.No 2
329.	1.10.12	Technical Schedules	Y	Technical Schedules Package 4 Substations--- 1.10 Earthing Conductor for Substation	Addendum 3 S.No 8 issued to amend Section VII 12.23.8 as follows: "2 sections of minimum of 70mm² copper conductor each. " "

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
	12.23.8	Section VII – Employer's Requirements		1.10.12 Riser Connections Dual 70mm² min. per structure - Part 2- Employer's Requirements Package 4 - ---12.23.8 For transformer neutral earthing, 2 sections of minimum of 150mm² copper conductor. The connection from the HV and MV neutral shall be directly connected to the substation earth mat by the shortest route possible via a CT. These must be separate connections. All equipment support structures shall be connected to the main substation earth grid with a minimum of 150mm² copper conductor; these shall be connected at opposite diagonal corners. Kindly confirm the following matters: The Technical Schedules require a minimum of 70mm² for Riser Connections, whereas the ER document specifies 150mm². Based on engineering experience, Riser Connections are generally calculated at 250°C, resulting in a cross-section larger than that of the grounding grid. Please clarify this requirement.	and "All equipment support structures shall be connected to the main substation earth grid with a minimum of Dual 70mm² copper conductor;"
330.	1.1.15.7	Price Schedule 1	Y	Price Schedule 1 –Item 1.1.15.7 500kVA 11/0.4kV Station Service Transformer	Refer to RFC 246 and addendum 3 S.No 10

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				According to the tender drawing E-330 kV Nakonde Stepdown Substation 11kV Aux SLD, it indicates the 11/0.4kV transformer is a auxiliary and earthing transformer, however, in the Price Schedules 1 item 1.1.15.7, it indicates this transformer is just a Station Service Transformer, please clarify which one shall we apply.	
331.			Y	Main earthing grid Please verify that the main earthing grid at Kasama Substation has already covered the expanded area. Furthermore, Please provide the cross-sectional area of the existing copper stranded wire in the main earthing grid.	Refer to RFC 28 and addendum 3 S.No 9
332.	1.1.16.2	Price Schedule 1	Y	Price Schedules 1 –Item 1.1.16.2 15kVAr Neutral Compensating Reactors According to the tender drawing D-330 kV Nakonde Stepdown Substation SLD, it indicates there are two Neutral Compensating Reactors for the line bays and one for the reactor bay, totally three Neutral Compensating Reactors, however, in the Price Schedules 1 item 1.1.16.2, it indicates the number of Neutral Compensating Reactors is 2, please clarify which one shall we apply.	Refer to RfC 9 and Addendum 3, S.No 5

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333.	4.1.19.12	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.19.12 For item 4.1.19.1.2 “Remove all vegetation, top-soil and rubble (up to 300mm below NGL) and dump at an approved site”. If so, please specify the location of the designated dumping site, or provide its distance from the substation.	Refer to RFC 149 and addendum 3 S.No 5
334.	4.1.19.6.6	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.19.6.6 For item 4.1.19.6.6 “Supply and Install External Lighting and Illumination for the Substation (inclusive of cable laying, earthing, and testing)”, there is no QTY and Unit under this item, please confirm whether this work is needed.	An addendum 3 S.No 5 has been issued to amend numbering of Price Schedule “4.1.19.6.7 - 4.1.19.6.10” to “4.1.19.6.6.1- 4.1.19.6.6.4”
335.	4.1.19.6.10	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.19.6.10 For item 4.1.19.6.10 “Mast mounted lighting (in switchyard)”, there is no QTY and Unit under this item, please confirm whether this work is needed.	An addendum 3 S.No 5 issued to include “1 Lot” under item 4.1.19.6.10.
336.	4.1.19.7.4	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.19.7.4 For item 4.1.19.7.4, “Shelter for oil drums (as per Employer's Requirements)”, there is no QTY and Unit under this item, please confirm whether this work is needed.	An addendum 3 S.No 5 issued to include “1 Lot” under item 4.1.19.7.4.

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337.	4.2.19.1	Price Schedule 4	Y	Price Schedules 4 –Item 4.2.19.1 For item 4.2.19.1, “Clearance of the working area, leveling, cutting and backfilling”, is there any material that needs to be dumped outside the substation? If so, please specify the location of the designated dumping site, or provide its distance from the substation.	Refer to RFC 149 and addendum 3 S.No 5
338.	8.5.7 11.2.23	Technical Schedules Section VII – Employer's Requirements	Y	Technical Schedules – 8.5 Battery 48 V DC – 8.5.7 Type: Maintenance-free VRLA GEL Long life The TDS requires lead-acid batteries for the 48V DC batteries, but in Employer's Requirements, 11 SCOPE OF SUPPLY OF PLANT AND INSTALLATION SERVICES BY THE CONTRACTOR 11.2.23, it requires 48V DC lithium batteries. Please confirm.	Refer to RFC 123 and addendum 3 S.No 3
339.	14.1.7	Technical Schedules	Y	Technical Schedules – 14. Transformer and Reactor Mechanical Protection – 14.1. Sergi Fire Protection In BOQ it requires to provide Sergi Fire Protection to power transformer and reactor. However, TDS of Fire protection, item 14.1.7 "Fire suppression agent" requires Water mist / Novec 1230 which is	An addendum 3 S.No 3 issued to amend technical specifications of item Guaranteed Technical Characteristics item 14.1

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				not applicable for Nitrogen Injection Fire Prevention System. Please clarify whether the fire suppression agent for transformers and reactors shall be Water mist or Nitrogen Injection Fire Prevention System.	
340.	12.13.47	Section VII – Employer's Requirements	N	Part 2- Employer's Requirements 12.13.47 Integrated Fire Suppression System It requires that Fire protection of power transformer and reactor of make Sergi or equivalent. Please confirm is it mandatory to use SERGI or bidders are open to offer Fire protection from OEMs other than SERGI?	The requirements in SECTION VII 12.13.47 shall stand: "The TRANSFORMER PROTECTOR (TP) of make Sergi or equivalent shall be installed at all reactors. It shall comply with the NFPA 850 Recommendation for Fast Depressurisation Systems for Substations"
341.	2.1.4	Technical Schedules	Y	Technical Schedules – 2.1 330kV circuit breaker –2.1.4 Description Hitachi replies that Self-blast interrupter is not applicable for 330kV circuit breaker. It shall be puffer, please confirm whether puffer is acceptable.	Addendum 3 S.No 3 issued to amend details of GTS 2.1.4 & 3.1.4 from "self blast interrupter" to "bidder to state"
342.	5.2.9	Technical Schedules	N	Technical Schedules – 5.2 Neutral Compensating Reactor 35 kV – 5.2.9 Core type In TDS 5.2.9, it specifies Core as the required core type. We propose adopting Shell type as it is	The requirements in Guaranteed Technical Characteristics 5.2.9 shall stand

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				technically safer and more reliable. Please confirm.	
343.	3.1.28	Technical Schedules	Y	Technical Schedules – 3.1. 132 kV Circuit Breaker – 3.1.28 Switching resistor Switching resistor is not applicable for 132kV circuit breaker, please confirm.	Addendum 3 S.No 3 issued to delete Guaranteed Technical Characteristics item 3.1.28
344.	12.16.3	Section VII – Employer's Requirements	N	Part 2 – Employer's Requirements – 12.16 Technical Specifications for Substation Auxiliary Power Supply – 12.16.3 11kV Indoor Air Insulated Switchgear In Employer's Requirements-12.16.3 11kV Indoor Air Insulated Switchgear, three-position switch is required, which is applicable to GIS but not AIS. Air Insulated Switchgear needs separate disconnector and earth. Please confirm.	The requirements of SECTION VII 12.16.8 shall stand.
345.	7.2.7	Technical Schedules	Y	Technical Schedules – 7.2 11 kV Cable Terminations – 7.2.7 Cross section For 11kV cable terminations, as per TDS item 7.2.7, the cable cross section is 35 mm ² , which is inconsistent with the 3×70 mm ² cross section stated in Item 1.1.10.15 of the BOQs. To meet the thermal stability requirement, we suggest adopting 3×150 mm ² for the cable termination. Please	Refer to RFC 132 and addendum 3 S.No 3 Addendum 3 S.No 3 issued to amend GTS item 7.2.7 to reflect 70mm ²

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				confirm whether to proceed in accordance with our proposal.	
346.	4.0.4.7	Price Schedule 4	N	Price Schedules 4 – Item 4.0.4.7 Item 4.0.4.7 “Supply and install 80mm interlocking paving bricks for the yard including all layer works, edge restraints as per specification” is repeated with item 4.1.19.3.7, please confirm.	Note that Price Schedule item 4.0.4.7 references to the staff housing requirements while item 4.1.19.3.7 refers to the Nakonde Stepdown substation requirements
347.	4.1.1.1 4.1.19.3	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.1 Item 4.1.1.1 “Access roads from public road to substation and housing areas” is repeated with item 4.1.19.3, please confirm.	An addendum 3 S.No 5 issued to delete Price Schedule item 4.1.1.1
348.	4.1.1.2 4.1.19.1	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.2 Item 4.1.1.2 “Clearing of substation surface, excavations, sloping & back-filling, levelling, compacting, etc.” is repeated with item 4.1.19.1. please confirm.	An addendum 3 S.No 5 issued to amend Price Schedule item 4.1.1.2 as follows: “Clearing of staff housing surface, excavations, sloping & back-filling, levelling, compacting, etc.”
349.	4.1.1.3 4.1.19.6.3	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.3 Item 4.1.1.3 “Gabion walls to secure the substation levels, erosion protection” is repeated with item 4.1.19.6.3, please confirm.	An addendum 3 S.No 5 issued to delete Price Schedule item 4.1.1.3

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350.	4.1.1.4 4.1.19.2	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.4 Item 4.1.1.4 “Drainage channels and outlets, inside and around the substation area” is repeated with item 4.1.19.2, please confirm.	An addendum 3 S.No 5 issued to delete Price Schedule item 4.1.1.4
351.	4.1.1.6 4.1.19.3.7	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.6 Item 4.1.1.6 “Paved roads, footpaths and stairs” is repeated with item 4.1.19.3.7, please confirm whether to delete 4.1.1.6.	An addendum 3 S.No 5 issued to delete Price Schedule item 4.1.1.6
352.	4.1.1.7 4.1.19.5	Price Schedule 4	Y	Price Schedules 4 – Item 4.1.1.7 Item 4.1.1.7 “Fencing and gates” is repeated with item 4.1.19.5, please confirm.	An addendum 3 S.No 5 issued to amend item 4.1.17 as follows: “Staff housing fencing (1.5m high diamond mesh - substation standard) and gates”
353.		Request for Bid documents	N	Is it a requirement to use purchased tender documents, or are the ones downloaded online sufficient and acceptable?	Bidders shall use the tender documents availed to them by Electronic means or downloadable from the provided website. The bidders shall be required to provide proof of purchase

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354.	12.12.48	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements In 12.12.48 Power and control cables, it states: "All cabling and/ or wiring to fan motors, oil pumps, measuring and monitoring devices etc. shall be designed for a conductor temperature of not less than 110°C." According to IEC 60502-1, the long-term operating temperature of conductors with XLPE insulation is 90°C, not 110°C. Please clarify.	The requirement shall stand. The 110°C requirement applies to the auxiliary wiring at fan motors, oil pumps, and monitoring devices mounted on the transformer tank not to the main XLPE power/control cables, which remain governed by IEC 60502-1's 90°C rating
355.	12.18.7	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements In 12.18.7 Cables and Wires, it states: "The cables to be used shall be of multi-core 600/1000 V grade, be fire retardant, zero halogen and low combustible type with copper conductors and copper screen. The cables shall have oil and moisture-proof insulation and, where the temperature exceeds that of ambient air, thermal characteristic insulation at least equal to class A of IEC 60085. " According to IEC 60502-1 there is no mandatory clauses for oil and moisture-proof	Requirements shall be at least equal to class A of IEC 60085 as provided. Information provided is sufficient for bidding purposes



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				insulation requirement, because XLPE itself does not feature long-term resistance to mineral oils and will swell and crack when exposed to engine oil and diesel, and ordinary PVC offers only short-term moisture resistance and tends to absorb water and cause leakage under prolonged water immersion. Accordingly, international standards for control cables (IEC 60227 / IEC 60245) do not mandate oil resistance and moisture resistance tests for insulation layers. IEC 60502-1 only specifies the long-term operating temperatures of insulation materials (90°C for XLPE and 70°C/85°C for PVC). IEC 60085 is a standard for thermal classification of electrical insulating materials rather than a cable standard, and it contains no mandatory clauses requiring compliance with Class A. Therefore, such requirement is not appropriate for substation application environment, please require the contractor to provide the cable just in accordance with IEC 60502.	
356.	1.1.7.3	Price Schedules No.1	Y	Price Schedules - Package4_Section4---- Sch 1 Materials	Refer to RFC 24 and addendum 3 S.No 3



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				1.1.7.3 36kV Surge arresters Kindly confirm the following matters: The TDS and specification requirements for the 36KV lightning arrester were not found in the ER documents. Please provide the corresponding technical parameters.	
357.	2.8.14 2.8.15	Technical Schedules	Y	Technical Schedules Package 4 Substations---Particular--- 2.8 330 kV Surge Arresters 2.8.14 Maximal residual voltage 8/20μs (10kA) : ≤660 2.8.15 Maximum steep current impulse residual voltage 1/20μs (10kA): ≤535 Kindly confirm the following matters: According to IEC60099 and the manufacturer's parameter table, the residual voltage of steep-slope impulse current is higher than that of lightning impulse. Please verify this requirement	An addendum 3 S.No 3 issued to amend details of GTS item 2.8.15 from “≤535” to “≤700”
358.	3.7.9 3.7.11	Technical Schedules	N	Technical Schedules Package 4 Substations---Particular---3.7 66 kV Surge Arresters	The requirements of 3.7.9 shall stand. All criteria provided shall be adhered to for bidding purposes



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				3.7.9 Rated short-circuit current : 65kA 3.7.11 Line discharge class :3 & 3.7.16 long duration current impulse:1100A Kindly confirm the following matters: - The short-circuit current of the 66KV (132kV) system is 31.5kA. According to IEC 60099, the corresponding short-circuit test current for a 10KA lightning arrester ranges from 31.5kA to 80kA. Please clarify whether the short-circuit current of the 66kV lightning arrester can be selected at the 50kA level. - For the lightning arrester with a line discharge level of 3, the long duration current impulse is 1000A for 2000 microseconds. Please clarify this specific requirement.	An addendum 3 S.No 3 issued to amend details of GTS item 3.7.16 from “ 1100A ” to “ 1000A ”
359.	12.12	Section VII – Employer's Requirements	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4---Section VII – Employer's Requirements Package 4-----12.12 Technical Specifications for Power Transformers 330/(132)66/11kV The main power transformers shall be interconnectable between 330/132/11 and	The requirements in Section VII – Employer's Requirements Package 4-----12.12 Technical Specifications for Power Transformers 330/(132)66/11kV are clear and sufficient for bidding purposes



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				330/66/11 kV by an easily accessible external change over switch. (a) The secondary winding shall comprise two identical halves connected in parallel for 66 kV and in series for 132 kV; (b) Reconnection shall be off-load via external change over switch; Kindly confirm the following matters: Regarding the "external changeover switch", we understand that the main transformer employs a built-in no-load switch for switching. The external operation switch controls the switch inside the main transformer to achieve the switching of 132/66kV voltage, similar to the operation method of an on-load tap changer. There is no need to lead the windings of the main transformer out of the main transformer body, as this would result in a significantly larger main transformer. Please clarify whether our understanding is correct.	
360.	ITB 23.1	Section II – Bid Data Sheet	Y	Request for extension of submission Due to the technical complexity of the project, together with the time required for co-	Refer to RFC 1 and addendum 3 S.No 12



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				ordination with manufacturers and collection of detailed technical documentation and supporting materials, we request for another one month extension from the current 17th July, 2026 to 17th August, 2026 to allow us to adequately prepare a comprehensive and fully responsive bid submission	
361.		Section VII – Employer's Requirements	N	We found that there is no CONTROL CABLE -Technical specification in the downloaded online bid document. Provide us CONTROL CABLE TDS-Technical Data Sheet and possible quantity for the project	Refer to Section VII – 12.12.48, 12.13.37 and 12.18, and Section IV Price Schedule items 1.1.10, 1.2.10, 4.1.10 and 4.2.10
362.	2.1.29	Technical Schedules	Y	Circuit Breaker's Technical Schedule (132kv and 330kv) For the Switching resistor, in the technical schedule, all the circuit breaker required switching resistor, including 330kV and 132kV circuit breaker. For example, item 2.1.29 switching resistor in 330kv circuit breaker, Please confirm the requirement. Please also give the further clarification of the parameter for the switching resistor.	Refer to RFC 78 and Addendum 3 S.No 3



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363.	1.5 1.6	Technical Schedules	N	Technical Schedules Package 4 Substations---Particular 1.5 Tension insulator set--1.5.8 Nominal disc diameter 280mm 1.6 Suspension insulator set---1.6.8 Nominal disc diameter 280mm - Shielding Rings - Grading Rings Kindly confirm the following matters: - Please clarify whether a larger disc diameter for the insulator is feasible., such as 330mm, 360mm, etc., - Regarding the grading ring and shielding ring, please clarify whether the 132KV insulator string also requires the configuration of a grading ring and shielding ring. - Please clarify whether it is possible to use a Grading - shielding ring instead of both a Grading ring and a shielding ring.	Requirements provided are sufficient for bidding purposes. Any optimisations to meet the desired technical specifications shall be accepted
364.		Drawings	Y	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4---Section VII – Employer's Requirements Package 4-----17 DRAWINGS	Refer to RFC 5 & Addendum 3 S.No 1, RFC 308 & Addendum 3 S.No 9



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				- A2 PP-ZTIP003-ODSS-C001 - Kasama Substation as-built drawing for the control building - N-2 ZESCO Standard Guard House _ Big Guard House Window Schedule - R2 WAMPACS drawings applicable for new Nakonde Stepdown Substation Kindly confirm the following matters: The drawing labeled A2 \ N-2\R2 were not found in the "11052026_ZTIP_Drawings_Package4_Nakonde SS" folder. Please provide these drawings.	
365.	11.3.9	Technical Schedules	Y	Technical Schedules Package 4 Substations---Particular---11.3 33 kV Single-phase Load Break Fuse o 11.3.9 Creepage distance : 2294mm Kindly confirm the following matters: The creepage distance requirement for 33KV load switches on outdoor poles is excessively high, amounting to 74kV (2294/31). Please clarify this creepage distance requirement, as it is currently challenging to find suitable products that meet this requirement.	Addendum 3 S.No 3 issued to amend details of GTS item 11.3.9 to "1324"



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366.	11.2.25	Section VII – Employer's Requirements	Y	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4---Section VII – Employer's Requirements Package 4----- 11.2.25 Civil Works Control building shall be built on the east end of the substation plot. The available areas for the control building is approximately 44m x 20m. The building shall include the following rooms with minimum sizes. Kindly confirm the following matters: In the layout diagram, the width of the control building is specified as 13.5m. Please clarify whether the dimensions of the control building must be 44m x 20m.	Refer to addendum 3 S.No 4 for amended PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026
367.	12.12.38	Section VII – Employer's Requirements	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4---Section VII – Employer's Requirements Package 4----- 12.12.38 Bushings The bushings shall be so installed that they are easy to check and remove without removing the tank cover and the pipework. High voltage (330 kV, and 132kV) bushings shall have capacitive taps for tan	Refer to Guaranteed Technical Schedules 4.1.40



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				delta test. The low voltage (11kV) bushings shall be of condenser type (porcelain) bushing. Kindly confirm the following matters: Can solid porcelain bushings be used for the low voltage (11kV) bushings?	
368.			Y	Section II – Bid Data Sheet The Bid opening shall take place at: Date: 17 July 2026 Time: 10:30AM CAT As our suppliers and subcontractors need extra time to prepare quotations and tender documentation for this project, we respectfully request a Four-week extension to the bid submission deadline, with the revised closing date set as 14 August 2026. Please kindly confirm	Refer to RFC 1 and addendum 3 S.No 12
369.	1.1.13.27 --- 1.2.13.27 ---	Technical Schedules	N	P201~202、 P210~211 Telecommunication spares According to the reply from Zambian ZTE, many of the spare parts are of old model equipment. Should we configure them according to the new model equipment?	Confirmed. Only spares of the SDH can be configured to the latest model. The rest of the requirements shall stand



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370.	12.12.48	Section VII – Employer's Requirements	N	P495 All cabling and/ or wiring to fan motors, oil pumps, measuring and monitoring devices etc. shall be designed for a conductor temperature of not less than 110°C. According to the IEC standards, the maximum operating temperature for low-voltage cables is 90°C. Meanwhile, the cable manufacturers have informed that the cable specifications specified in the tender documents cannot achieve an operating temperature of 110°C. Should we adopt low-voltage cables with an operating temperature of 90°C as per the IEC requirements?	Refer to RFC 361
371.		Drawings	Y	C-NAK-330 kV Nakonde Stepdown Substation Layout D-330 kV Nakonde Stepdown Substation SLD In the NAKONDE substation, the equipment quality and arrangement in the 330kV Busbar Reactor and Bus Coupler bay is different between the SLD and the layout drawings. Which scheme should be following?	Refer to RFC 7 and addendum 3 S.No 4 for amended PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026 and D-330 kV Nakonde Stepdown Substation SLD

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372.	11.2.25	Section VII – Employer's Requirements Drawings	Y	11.2 330 kV Nakonde Stepdown Substation - 11.2.25 Civil Works Control building shall be built on the east end of the substation plot. The available areas for the control building is approximately 44m x 20m. The building shall include the following rooms with minimum sizes. • 11kV Switch Room - 59m2 • Storage - 15m2 • Communication Room - 30m2 ... Kindly please provide the layout drawings for the control building at the NAKONDE substation.	Refer to RFC 53 and addendum 3 S.No 9
373.	12.4	Section VII – Employer's Requirements	N	12.4 Factory Acceptance Test (FAT) The arrangements for FATs shall include local transportation and associated costs for a duration to be proposed by the Contractor and approved by the Employer for Three (3) ZESCO engineers and one Consultant personnel. Please kindly confirm whether the allowances for the Owner and Consultant during the FAT shall be borne by the Contractor or ZESCO. If the Contractor is responsible	Refer to RFC 67



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				for such payment, kindly specify the daily allowance rate.	
374.	12.8.12.2	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 Technical Specification for Outdoor Circuit Breaker 12.8.12.2 However, even at 50% of rated voltage the breaker shall be able to operate. According to the requirements of IEC 62271-100, the trip coil can operate at 65% to 110% of the rated voltage, and the closing coil can operate at 85% to 110% of the rated voltage. The values specified in the IEC are quite different from those mentioned in the description: However, operation at 50% of the rated voltage cannot be guaranteed. Can we follow the IEC standards instead?	Refer to RFC 222
375.	12.8.15	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 Technical Specification for Outdoor Circuit Breaker 12.8.15 12.8.15 Interpole Cabling The following shall be applicable: All cables shall be armoured and shall be as per IS-1554 (1100 Volts Grade). All cables within and between circuit breaker poles shall be supplied as part of the Project.	The requirement in Section VII – Employer's Requirements Package 4 Technical Specification for Outdoor Circuit Breaker 12.8.15 shall stand



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				Can the secondary conductors with a rated voltage of 0.6/1 kV be used instead? That provides insulation for 600 V to earth and 1000 V between phases. Products equipped with such wires have been put into operation in multiple projects in Zambia and Tanzania, fully complying with on-site operating conditions.	
376.	12.9.11	Section VII – Employer's Requirements	Y	Section VII – Employer's Requirements Package 4 Technical Specification for Outdoor Disconnectors 12.9.11 Springs shall be provided for counter-balancing the disconnectors to prevent impact at the end of travel both on opening and closing of the disconnector switch. Vertical break disconnectors are fitted with springs to counteract the gravity of conductors during opening and closing operations. All disconnectors adopted for this project are of horizontal break type, please clarify there is no springs are required for the horizontal break type.	Addendum 3 S.No 8 issued to amend Section VII 12.9.11 as follows: "Springs shall be provided for counter-balancing the disconnectors to prevent impact at the end of travel both on opening and closing of the disconnector switch where applicable "
377.	0.2.4	Technical Schedules	N	Section VII – Employer's Requirements Package 4 19 SCHEDULES OF GUAR-	The requirements in Section VII – Employer's Requirements Package 4 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS item 0.2.4 shall stand



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				ANTEED TECHNICAL CHARACTERISTICS 0.2. Main Design Data 330 kV, 2000 m.a.s.l 0.2.4 Rated short-duration power frequency withstand voltage 580 kV According to the IEC standards and altitude correction calculations, the short-term power frequency withstand voltage for this project should be 510 kV, not 580 kV. Please confirm whether we can proceed with the execution at 510 kV.	580kV is corrected at altitude of 2000m above sea level
378.	12.23.8 1.10.12	Section VII – Employer's Requirements Technical Schedules	Y	Section VII – Employer's Requirements Package 4 12.23.8 Equipment and Structure Earthing & 1.10. Earthing Conductor for Substation 1.10.12 Riser Connections All equipment support structures shall be connected to the main substation earth grid with a minimum of 150mm² copper conductor; these shall be connected at opposite diagonal corners. & 1.10.12 Riser Connections Dual 70mm² min. per structure The requirements for the grounding wire of the equipment in the technical specifica-	Refer to RFC 329 and addendum 3 S.No 8



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				tions and the technical schedule are inconsistent. Please clarify which type we should follow?	
379.	14.1	Technical Schedules	Y	14. Transformer and Reactor Mechanical Protection 14.1. Sergi Fire Protection In the technical schedule of the Sergi Protection System, we found that all the requirements are related to the water spray fire protection system and there is no requirements about the nitrogen-filled fire suppression system. Please confirm whether this project only needs to consider the water spray system for the power transformers and the reactors.	Refer to RFC 339 and addendum 3 S. No 3
380.		Drawings	N	A1-Kasama Substation Layout ; C-NAK-330 kV Nakonde Stepdown Substation Layout We have noticed that the original structure heights at the KASAMA station are 40 meters and 35 meters. Could you please clarify whether for the new 330kV area at the NOKONDE station, the same height of gantry need to be considered, or can we design the structure height according to actually design needs?	Refer to RFC 121



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381.	ITB23.1	Section II – Bid Data Sheet	Y	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 Section II – Bid Data Sheet, ITB 23.1 The deadline for Bid submission is stipulated as 17 July 2026 in ADDENDUM No. 1, We hereby respectfully request for an extension of 30 days to the bid submission deadline, for the following considerations: 1) In accordance with the requirements specified in Section III – Evaluation and Qualification Criteria, which states that "all the above documents shall be presented in English, or translated into English by an authorized and notarized agent", the bidders need to complete the authorization and notarization procedures for all relevant supporting documents. This process generally requires more than one month to complete in compliance with official requirements. 2) Considering that the clarifications submitted by the bidders have not been answered to date, after bidders receive the responses to their clarifications, the bidders will still need additional time to	Refer to RFC 1 and addendum 3 S.No 12



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				prepare accurate calculations for the project cost. 3) The bidders need to re-compile the full-cycle cash flow calculations and local workforce planning to ensure that the bid price and implementation plan fully comply with the World Bank's related rules, guaranteeing smooth cash flow during the subsequent project execution phase. The relevant calculations require additional time to complete. 4) Given the high competitiveness of this project, to deliver a comprehensive, rigorous and high-quality tender document that fully meets the project requirements, the bidders need additional time to conduct in-depth data analysis and detailed cost calculation.	
382.	12.12.1	Section VII – Employer's Requirements	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 Employer's Requirements The special technical requirements specify a high-voltage impedance of 14% and a low-voltage impedance of 8% for transformers. Since this transformer is a medium-voltage dual-voltage transformer (132kV and 66kV), please clarify whether	Refer to RFC 254



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				the medium-voltage side in the high-voltage and low-voltage impedance specifications refers to 132kV or 66kV.	
383.	12.12.17 12.12.71	Section VII – Employer's Requirements	Y	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 Employer's Requirements Regarding transformer fire suppression, which approach is applied: water sprinkler systems or nitrogen-based extinguishing systems? Please clarify.	Refer to RFC 339 and addendum 3 S. No 3
384.	12.12.17 12.12.71 12.13.45 12.13.47	Section VII – Employer's Requirements	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 Employer's Requirements Regarding fire protection systems for reactors and transformers, is the use of equipment produced by the Sergi brand required? Is such requirement mandatory? Please clarify.	Refer to RFC 325
385.	34	Section VIII – General Conditions of Contract	N	Nakonde – Section VIII – Clause 34. Insurance Please confirm whether Marine Cargo Insurance must be procured locally in Zambia through Zambian insurers, or if insur-	There is no restriction to the procurement of Marine Cargo Insurance



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				ance coverage arranged through an international insurer (e.g., from India or the international market) will be considered acceptable.	
386.	4.0.4 12.25	Price Schedules No. 4 Section VII – Employer's Requirements	Y	Nakonde – Price Schedule & Section VII – Employer's Requirements Package Nakonde – Sch 4 Installation ,item no. 4.0.4 Employer's Housing & Clause 12.25 12.25 Technical Specification for Substation Civil Works Please provide the all corner coordinates and location of the Housing area Plots.	Refer to RFC 310 and addendum 3 S.No 9
387.	12.25	Section VII – Employer's Requirements	Y	Nakonde – Price Schedule & Section VII – Employer's Requirements Package Employer's Housing & Clause 12.25 12.25 Technical Specification for Substation Civil Works Please Provide proposed size for the housing area plots	Refer to RFC 310 and addendum 3 S.No 9
388.		Section VII – Employer's Requirements	N	Nakonde – Section VII – Employer's Requirements Package Guard House	Confirmed



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				We understand that, As per the scope of the work 2 nos. of guard house will be provided in the Substation area. Kindly Confirm	
389.	4.1.19.3.1 4.1.19.3.2 4.1.19.3.3 4.1.19.3.4 4.1.19.3.5	Price Schedules No. 4	Y	Nakonde – Price Schedule - Sch 4 Installation In Price Schedule Item no.4.1.19.3.1,4.1.19.3.2, 4.1.19.3.3,4.1.19.3.4,4.1.19.3.5 Quantities are provided, we understand that for bid costing these quantities are to be considered and during execution stage if there is any increase in quantities it will be paid as extra. Kindly confirm.	Addendum 3 S.No 5 issued to amend Schedule Item no.4.1.19.3 numbering and quantities
390.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Land development We understand that the land development, including terracing, levelling, and compaction, will be done for the actual occupied housing plot area and not for the area outside the housing plot. Kindly confirm	Refer to addendum 3 S.No 9 for added drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026.



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391.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Fencing Kindly confirm if separate fencing is required for the housing area	Confirmed. Addendum 3 S.No 5 issued to amend Price Schedule item 4.1.1.7 as follows: "Staff housing fencing (1.5m high diamond mesh - substation standard) and gates"
392.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Fencing Kindly confirm the type of fencing for the housing area.	Refer to RFC 391 and addendum 3 S.No 5
393.	11.2.25	Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Clause 11.2.25 In tender drawing only single step is proposed however We understand substation can also be build in multi level steps and or sloping ground please confirm.	Refer to RFC 247 and addendum 3 S.No 5,8
394.		Section VII – Employer's Requirements	N	Nakonde – Section VII – Employer's Requirements Package Housing	Information provided in added drawing PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 and attachments S3_330 kV Nakonde Stepdown Substation Topographic Map 1 & S4_330 kV Nakonde Stepdown Substation Topographic Map 2 is sufficient for bidding purposes



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				We assume that housing can be built in multilevel steps and/or sloping ground. Kindly confirm.	
395.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Land development Instead of the Retaining wall like Gabion wall Or RCC wall, we assume that slope cutting/filling with surface protection can also be provided Kindly Confirm.	Refer to RFC 247 and Addendum 3 S.No 5
396.		Price Schedules No. 4	Y	Nakonde – Price Schedule – Sch 4 Installation We understand that the car parking shed is only for the Sub station. Kindly confirm	Refer to Addendum 3 S.No 9 for added drawings PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 and Addendum 3 S.No 4 for amended drawing PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026 for location of car park
397.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Housing & Car parking Kindly confirm if we need the car parking shed for the Housing area. If required please provide the car parking shed dimensions.	Refer to RFC 396 and Addendum 3 S.No 4 and 9 Addendum 3 S.No 5 issued to amend Price Schedule item 4.1.19.8.6 as follows: "Un-covered parking 40m wide, 50m long"



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398.	4.1.19.8.5 4.1.19.8.6	Price Schedules No. 4	Y	Nakonde – Price Schedule – Sch 4 Installation In Discreption of Item no. 4.1.19.8.5 and 4.1.19.8.6 Dimension of the car parking shed is provided, we understand that for bid costing this quantatiy is to be considered and during execution stage if there is any increase in the Dimension it will be paid as extra. Kindly confirm	Refer to RFC 397 and addendum 3 S.No 5
399.		Section VII – Employer's Requirements	Y	Nakonde – Section VII – Employer's Requirements Package Please provide the Site setting out plan for the Staff housing location.	Refer to RFC 397 and addendum 3 S.No 4, 5 & 9
400.		Section VII – Employer's Requirements	N	Nakonde – Section VII – Employer's Requirements Package Please confirm the Type of the security fence.	Refer to RFC 52
401.	4.2.19.13	Price Schedules No. 4	Y	Kasama – Price Schedule – Sch 4 Installation For Item No. 4.2.19.13, the quantity is indicated as "Refurbishment of 3 km Access Roads." Please confirm whether bidders should consider only this quantity for pricing	Refer to RFC 299 and addendum 3 S.No 5



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				ing, and whether any additional length required during project execution will be compensated separately as extra work.	
402.			Y	Kasama – Section VII – Employer's Requirements Package Lighting May we understand that lighting for the access road is not required and, therefore, has not to be considered in the bidder's scope and pricing? Kindly confirm.	Refer to RFC 299 and addendum 3 S.No 5
403.		Section VII – Employer's Requirements	N	Please confirm that the busbar system is not based on rigid tubular busbars and that it shall be constructed using AAC Taran-tula conductor (or equivalent conductor such as LGKK-600).	Refer to RFC 26
404.		Section VII – Employer's Requirements	N	Please confirm whether the specified ACSR Bison conductor, which appears suitable for 132 kV operation, may also be considered acceptable at this stage for both 132 kV and 66 kV system operation, given that the transformer may operate at 66 kV if required.	Refer to RFC 26



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405.		Section VII – Employer's Requirements	N	Please confirm whether the 11 kV Indoor Air Insulated Switchgear stainless-steel enclosure is mandatory for all MV switch-gear panels, or whether alternative enclosure materials such as CRCA steel or Aluzinc sheet construction are acceptable. If stainless steel remains mandatory, please advise the minimum required stainless-steel grade.	The requirements of section VII 12.16.5 shall stand: "The Air Insulated Switchgear (AIS) shall be metal-clad of vermin-proof tropical design, and suitable for erection close to or at walls. The design shall be of standardized type, earlier implemented in tropical countries. The switchgear shall be designed and manufactured in accordance with the latest applicable standards of IEC."
406.		Section VII – Employer's Requirements	N	Please confirm whether the cable trench arrangement shown in the drawings, which indicates a common trench for power cables and control/protection cables, is acceptable for all cable categories, or whether separate/additional cable trenches are required.	Confirmed. Refer to RFC 42 and 48
407.		Section VII – Employer's Requirements	N	Please confirm whether FAT testing per diem is required. If so, please specify the applicable amount per person per day.	Refer to RFC 67
408.		Price Schedules No. 4 Section VII – Employer's Requirements	N	Please confirm whether FAT tests listed across multiple BOQ items (Bill 4, 39 rows) may be combined for components and across two sites where applicable.	Refer to RFC 199



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409.		Price Schedules Section VII – Employer's Requirements	Y	Please clarify the terracing plan showing an 8 m height difference and a gabion wall, in relation to the BOQ which indicates both a cantilever retaining wall and a gabion wall.	Refer to RFC 247 and Addendum 3 S.No 4 for amended drawing PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026, S.No 5 & 8
410.		Price Schedules Section VII – Employer's Requirements	Y	Please confirm whether the 8 m height difference remains constant across the full width of 250 m.	Refer to RFC 247 and Addendum 3 S.No 4 for amended drawing PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026, S.No 5 & 8
411.		Price Schedules Section VII – Employer's Requirements	N	Please clarify whether cut and fill works apply to the substation area (310 m × 250 m) only, or to the full site area of 1000 m × 500 m. The same clarification is requested for the 30 cm topsoil removal scope.	Refer to RFC 57, 100 & 247 and addendum 3 S.No 5 & 8
412.	14.2	Section VIII – General Conditions of Contract	N	Please confirm whether all import duties and customs charges will be borne by the Employer.	Refer to RFC 16
413.		Section VII – Employer's Requirements Drawings	N	Please confirm whether the boundary fence (3000 m) and security fence (1120 m) are of the same type as shown in the fence detail drawing (Q), and whether the	Refer to RFC 52



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				internal safety fence is of diamond mesh type.	
414.		Section VII – Employer's Requirements	Y	Please confirm whether kerbs are required for all roads (internal and external, all types), as well as around substation fencing (security, boundary, or safety fences).	An addendum 3 S.No 8 issued to add the following clarity to Section VII 11.2.25: "Kerbs are required for all roads (internal and external, all types), as well as around substation security fencing. Yardstone shall extend 2m beyond the security fence and bound by kerbing (All kerbing shall be in accordance with SABS 927)"
415.		Section VII – Employer's Requirements	N	Please confirm whether per diem is required for the local training section, and whether accommodation and transport costs should be included in the pricing.	No per diem, accommodation or transport costs for local training shall be included in the pricing
416.		Section VII – Employer's Requirements	N	Please confirm whether per diem is to be included in the pricing for the foreign training section.	Refer to RFC 201
417.		Price Schedules	Y	Please clarify the required scope for the Kasama Substation access road refurbishment (3 km).	Refer to RFC 299 and addendum 3 S.No 5
418.		Drawings	Y	Please clarify the blue hatch indicated in the Nakonde layout drawing at the gabion/RC wall area.	Refer to addendum 3 S.No 4 for amended drawing PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026



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419.		Price Schedules	N	Please clarify the scope and exact location of planting and cladding at the embankment as referenced in the BOQ.	The scope of this is dependent on the design by the bidder and shall be deemed included in the pricing for Landscaping and Yardstone cover under the BOQ
420.		Price Schedules	N	Please clarify the number and locations of lighting elements (mast poles, poles, and wall-mounted fixtures), as these are currently not clearly defined.	This shall be based on the bidder's optimised design and shall be deemed included in the pricing under the BOQ
421.		Price Schedules	Y	Please clarify whether gravel spreading applies to the full 310 m × 250 m area plus a 2 m offset, or a different defined area.	Refer to RFC 414 and addendum 3 S.No 8

/END