



ZAMBIA – TANZANIA INTERCONNECTOR PROJECT

Package 4

CLARIFICATIONS NO. 2 TO BIDDING DOCUMENTS

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
422.		Price Schedules	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 – Price Schedule 4.1.1.1 Access roads from public road to substation and housing areas 4.1.1.7 Fencing and gates 4.1.19.3.1 200mm thick by 6m wide heavy duty reinforced concrete road (complete with kerbing, road markings, signage, and storm water drainage channels). [Allow for lane widening for lay-bys.] 4.1.19.3.2 - Internal Access Road 4.1.19.3.3 - External Access Road 4.1.19.3.4 - External access road (from gate 02 to proposed asphalt road, via staff housing area) 4.1.19.3.8 Construct 9m wide (7m-main carriageway + 2m-shoulders) asphalt road from the main road complete with drainage on both sides. (This shall include road markings, kerbing, reinforced concrete stormwater drainage channels & culverts, road	Refer to RFC 347, 352, 389, 391, addendum 3 S.No 5 and issued amended Price schedules

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				markings, and any other road furniture required by the Road Development Agency. 4.1.19.5.1 Substation Security Fencing (complete with main sliding gates, pedestrian gates, 600mm dia. Concertina razor wire, and reinforced concrete anti-dig barrier) 4.1.19.5.2 Substation (Inner) Safety Fencing (inclusive of double-leaf gates, removable panels, and pedestrian gates) 4.1.19.5.3 Property Boundary Fencing (inclusive of double-leaf gates and pedestrian gates) Please indicate whether above lists items contain duplicates.	
423.		Price Schedules	Y	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 – Price Schedule 4.2.18.1. Steel Support structures for equipment, gantries and busbar 4.2.19.3. Complete installation of all steel support structures for equipment, gantries and busbar Please clarify whether these two items are same?	Addendum 5 S.No 1 issued to amend 4.1.18.6 & 4.2.18.1 as: “Steel Support structures for equipment, lightning masts, gantries and busbar” and to delete Price Schedule item 4.1.19.4.17 & 4.2.19.3

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424.		Price Schedules	N	ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4 – Price Schedule The item 4.2.17DC System of the KASAMA 330 KV SUBSTATION is listed in Sch 4 Installation, but not listed in Sch 1 Materials. Please clarify whether this section needs to be added to Sch 1 Materials.	Note that at Kasama SS, there will be no supply of DC equipment but integration of new equipment into the existing DC system. Refer to Section VII clause 11.1.4 and RFC 174
425.		Technical Schedule	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Main Design Data 330 kV, 2000 m.a.s.l Short time current as per General sheet is 40kA for 1 Sec for 330kV system and as per Particular sheet 330 kV Equipment its 31.5kA for 3 Sec. Please clarify required values.	Note that all specific 330kV equipment in GTS are all rated at 40kA for 3sec while 132kV equipment are rated at 31.5kA for 3 sec Addendum 5 S.No 5 issued to amend details of GTS item 0.2.3 from "Rated short time current (1 sec);" to "Rated short time current (3 sec);"

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426.		Technical Schedule	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Main Design Data 132(66) kV, 2000 m.a.s.l Short time current as per General sheet is 31.5kA for 3 Sec for 132kV system and as per Particular sheet 132 kV Equipment its 40kA for 3 Sec. Please clarify required values for 145 & 66kV systems.	Refer to RFC 75 and addendum 3 S.No 3
427.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION We understand that there is no works to performed at Tunduma Substation. Please confirm.	There shall be some works at Tunduma substation. Refer to RFC 270, addendum 3 S.No 14, PCC 25.2.2 and Price schedule item 4.1.12.9.1
428.	1.1	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General Information Existing SCADA/EMS System and associated telecommunication systems are being extended. DVSD compensation plant shall be installed in 330 kV Nakonde new substation and existing Pensulo substation. We understand DVSD is not in the	The Civil works for the DVSD area shall be as provided for under Section VII Employer's Requirements clause 11.2.25 Civil Works and the related GA drawing PP-ZTIP-P04-ODSS-

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				present scope but in separate package. Please confirm.	C109_Nakonde SS GA_R00_30062026 The existing SCADA/EMS System and associated telecommunication systems shall be extended at Kasama Substation. The SCADA/EMS system and associated telecommunication system at Nakonde Substation shall be a greenfield system complete with the substation. The DVSD equipment however shall be under a separate package.
429.	3.6	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Climatic Conditions Seismic zone is Strong to Very strong, we understand in terms of value 0.2g is the requirement. Please confirm.	Refer to RFC 89 and Addendum 3 S.No 8

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430.	7.5	Section VII – Employer's Requirements	Y	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Tests and Commissioning Type tests may not be needed if type tests have been carried out on equipment to be supplied and are less than 5 years old at date of tender submission, however in 7.5.3. It says 8 Years, please confirm.	An addendum 5 S.No 2 issued to amend Section VII 7.5.1 to <i>"Type tests may not be needed if type tests have been carried out on equipment to be supplied and are less than 8 years old at date of tender submission"</i> .
431.	7.5.3	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Tests and Commissioning – Type Tests Such Type Test Certificates shall be issued by internationally recognized testing organizations for type tests carried out on components and equipment which are, in the opinion of the Employer / Employer's Representative, of identical type or identical in all essential respects to the equipment offered. Please confirm if certificates of similar equipments is acceptable.	Refer to RFC 216

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432.	7.5.3	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Tests and Commissioning – Type Tests Type tests may be omitted at the discretion of the Employer if satisfactory evidence is given of such tests already made on similar equipment instead of identical equipment. Please confirm.	Refer to RFC 216
433.	11.1.10	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – 330 kV Busbar Protection The two new line bays shall be integrated into the new low impedance phase segregated 330kV Busbar Protection system that shall be established under Package 2 contract. We understand no busbar protection augmentation is in the present scope. Please confirm.	The scope shall be as provided in Section VII 11.1.10 which requires integration into the existing upgraded protection system
434.	1.1.19.1	Price Schedule, Schedule 1	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Complete supply of metal clad indoor Air Insulated Switchgear (AIS) - 2 Each. However, SLD "E-330 kV Nakonde Stepdown Substation 11kV Aux SLD" shows 1 Set of metal clad indoor Air Insulated Switchgear (AIS) with 5 Panels. Please clarify.	Refer to RFC 143 and addendum 3 S. No 5

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435.	4.1.52 4.1.53	Technical Schedules	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Type tests & Special tests We understand client may waive the type/special tests if type test certificates performed on similar transformer are available. Please confirm.	Refer to RFC 216
436.	4.1.52 4.1.53	Technical Schedules	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – Type tests & Special tests Please note that, we shall be providing short circuit calculation as per IEC 60076-5 during detailed engineering. We shall not be conducting short circuit withstand test for offered transformer/reactor, neither will we be proving similarity with reference transformer/reactor. Please confirm.	Refer to Section VII 12.12.59 & 12.12.60 to be used in conjunction with GTS item 4.1.52 and 4.1.53
437.		Drawings Price Schedules	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – D-330 kV Nakonde Stepdown Substation SLD We understand 11 kV Surge Arrester on the tertiary side of the main Power Transformers shall be Outdoor. However Price schedule doesn't mention the same. Please clarify.	The 11kV Surge arresters shall only be included in the indoor metal clad AIS as provided for in GTS item 6.1.83, shall be priced as part of Price Schedule items 1.1.19.1 and shall not be outdoor.

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438.		Drawings	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION – D-330 kV Nakonde Stepdown Substation SLD Is connection on tertiary side of the main Power Transformer shall be through bushing and not Cable box. Please confirm.	Refer to Section VII 12.12.38
439.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General We understand that there is no works to performed at Nakonde 1 & Isoka 1 Substation. Please confirm.	Confirmed. Scope of work shall be limited to Section VII clause 11
440.		General	Y	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General The specifications calls for the Fiber optic communication equipment and telephone exchange shall be manufactured by the same manufacturer/supplier of the remote end existing substations. We request you to please provide make and model of FOCE at following remote end substations 1. Tunduma	1. Addendum 5 S.No 3 issued to add drawing <i>Tunduma_Telecommunications_for Approval_05062026</i> to show telecommunication equipment at remote end substation for Reference/interface information only. Addendum 5 S.No

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				2. Nakonde 1 3. Isoka 1	2 issued to add the following to Section VII clause 12.20.3: <i>"The technical details and drawings for the telecommunication equipment at Tunduma Substation to which the telecommunication at Nakonde substation shall connect is as given in drawing Tunduma_Telecommunications_for Approval_05062026. It shall be the responsibility of a contractor to ensure inter-operability of the telecommunication equipment between the two substations. Though the</i>

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					<i>contractor shall establish terminal telecommunication equipment at Nakonde substation on the direction of Isoka and Nakonde, as specified herewith the Employer shall manage the interface works on the remote ends."</i> 2. Refer to Section VII 12.20.4 3. Refer to Section VII 12.20.4 In terms of protection communication for the line between ZAMBIA and TANZANIA, the RELAYS for both sides are P545 and PCS 931S using a SINGLE MODE SFP in each RELAY which will be able to cover the approximate distance of TWENTY

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					(20) Kilometers between the two countries. Therefore, PROTECTION will be back to back connection using Optic Fibre Cable (single mode) between the two substations as outlined in the RfB. The communication equipment on the Zambian side is OTN (ZTE9700E) which supports similar data rates of 1G/10GE/100G, STM16, STM64 as well as PTN for lower data rates of 10/100/1000M for ethernet and E1 connectivity on the Tanzanian side. These are sufficient for interface between both ends regardless of the manufacturer

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441.		General	Y	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General We request you to please provide make and model of SAS at following remote end substations 1. Tunduma 2. Nakonde 1 3. Isoka 1	Refer to RFC 296 Refer to Addendum 5 S.No 3 issued to add drawing <i>Tunduma_SAS_forApproval_28102025</i> for Tunduma Substation for Reference/interface information only. The SAS for Nakonde 1 & Isoka 1 are not necessary for the bidding process as they are not in the scope
442.		General	Y	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General We request you to please provide make and model of CRP & relays (Main 1 & Main 2) at following remote end substations 1. Tunduma 2. Nakonde 1 3. Isoka 1	Refer to RFC 296 Refer to Addendum 5 S.No 3 issued to add drawing <i>Tunduma_Protection & Control_forApproval_09082025</i> for Tunduma Substation for Reference/interface information only. Addendum 5 S.No 2

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					issued to add the following to Section VII clause 11.2.10 as follows: "Note that the 87L relay Main 1 model is NR make PCS931S relay serial number NRJB21484525A006 9 (line 1) & NRJB21484525A007 0 (line 2); Main 2 model is a Schneider make differential P545 relay serial number 39898037/10/25 (Line 1) & 39898038/10/25 (Line 2). However, note that the DC supply at Nakonde SS shall be 110V DC unlike the 220V DC at Tunduma substation." The Protection & Control for Nakonde 1 & Isoka 1 are not necessary for the bidding process as

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					they are not in the scope
443.		General	Y	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General Is there any works to be done at LDC, Please provide the details. Please also location of LDC.	The network architecture principal for interface to the National Control Center for Nakonde Stepdown substation shall be similar to drawing <i>Kasama Substation System Architecture_AsBuilt_20102015</i> Addendum 5 S.No 2 issued to add the following to section VII clause 11.2.7: <i>"The network architecture principal and the related interface to the National Control Center for Nakonde Stepdown substation shall be similar to drawing Kasama Substation System"</i>

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					<i>Architecture_ AsBuilt_20102015"</i> Scope of work shall be limited to Section VII clause 11
444.	12.8.11	Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - 12.8.11 Insulators Burst pressure test is destructive test and hence we can't perform this as sample test. Please confirm.	All tests shall be as stipulated in Section VII 12.8.11
445.	10.2	Section VII – General Conditions of Contract Section X – Contract Forms	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION - General Site handover timeline. GCC 10.2 doesn't specify a date/period for the Employer to hand over site possession, have we asked query asking the Employer to commit to one.	Refer to PCC 8 Time for Commencement and Completion
446.	4.1.19.3.1 to 4.1.19.3.8 except for 4.1.19.3.6	Price Schedule, Schedule 4	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION We understand, payment will be done for actual quantity executed based on unit rates provided. Please confirm.	Refer to RFC 389

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447.	4.2.19.13	Price Schedule, Schedule 4	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Refurbishment of Access Roads with drainages to an all weather gravel road for transportation of new equipment to Substation (3km). Please Confirm whether the refurbishment must meet a specific pavement/geometric standard or is limited to repair-as-needed.	Refer to RFC 299 and Addendum 3 S.No 5
448.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Since there has been no change in our design, and IEC standards do not suggest repeating type tests when the design remains the same, we request you to accept Type test certificates older than 8 years. Please confirm.	Refer to RFC 124
449.	12.8.5	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION 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	Refer to RFC 220 and addendum 3 S.No 11

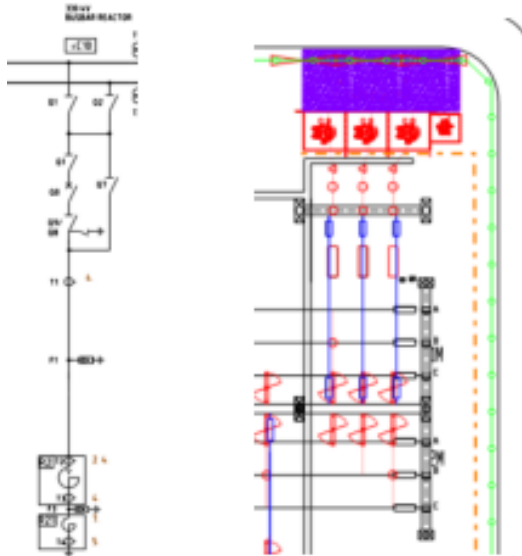
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				msec. Please accept Total breaker time of ≤ 45 ms as most OEM's are not complying the same.	
450.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Please confirm reactor breaker shall have be supplied with point of wave controller.	Refer to RFC 20 and addendum 3 S.No 3
451.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Plot Coordinates The tender documents doesn't contain co ordinates of four corners of entire plot. Please provide the co ordinates.	Refer to RFC 96 and addendum 3 S.No 9
452.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Switchyard Coordinates The tender documents doesn't contain co ordinates of four corners of entire Switchyard area. Please provide the co ordinates. The soil report have	Refer to RFC 96 and addendum 3 S.No 9

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				different points, however the four corner points are missing. Please provide the same.	
453.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Access Road Coordinates The tender documents doesn't contain co ordinates of the access road. Please provide the co ordinates. 	Refer to RFC 49
454.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Staff Houses	Refer to RFC 96 and addendum 3 S. No. 9

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				Please show location & position of staff houses on the plot layout along with coordinates.	
455.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION H Pole 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 Please show location of the H Pole on the layout.	Refer to RFC 113
456.		General	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION We understand existing busbar protection in Kasama is Schneider, however there is a plan to change the same & SAS as part of Package 2, can you confirm make and model of Bus bar protection and SAS.	Refer to RFC 30 and addendum 3 S.No 11
457.	1.2.13.2 1.2.13.27 (P209 ~ P211)	Section VII – Employer's Requirements	N	1.2.13.2 :DWDM Optical Transport Networking (OTN) equipment as spare 1.2.13.27 Telecom spares 1.2.13.2 A set of OTN equipment is listed as spare. Some of the spare parts from 1.2.13.28 to 57 can be	Information provided is sufficient for bidding purposes

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				combined to form a set of OTN equipment. Should we retain the equipment with the IP address 1.2.13.2 even when configuring the entire set of spare parts from 1.2.13.28 to 57?	
458.		General	Y	Please add the Bus-coupler Protection to the BOQ.	Addendum 5 S.No 1 issued to amend Price schedules item 1.1.12.9 and 1.1.12.17 Addendum 5 S.No 2 issued to add details of bus coupler protection to Section VII clause 11.2.9 and 11.2.14
459.		Drawings Technical Schedules	N	D-330 kV Nakonde Stepdown Substation SLD; B-KASAMA-SLD; 19 SCHEDULES OF GUARANTEED TECHNICAL CHARACTERISTICS-2.5. 330 kV Current Transformer Line Feeder Bay 2.6. 330 kV Current Transformer - Transformer Bay (Page 779-780) SLD:3.) 330 kV Line/Bus Coupler feeder bay Current Transformer 1200-2400/1/1/1/1/1/1 A, 5P20/PX/PX/PX/0.2s/0.2s, 10/10/10/10/5/5 VA	Refer to RFC 23 and addendum 3 S.No 2

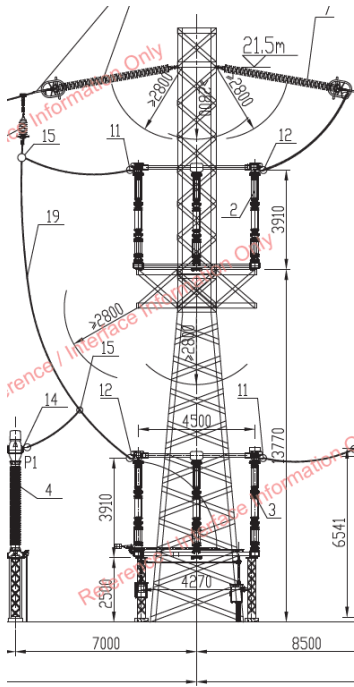
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				Technical Schedule: Protective cores number and class 1x 5P20 3 x class PX 0.5V/turn Measuring cores number and class: 2 x 0.2s Fs<5 Spare core: 1 x class PX 0.5V/turn The CT current ratio and core quantity in the single line diagram do not match the requirements in the Technical Schedule. We recommend following the values specified in the Technical Schedule and provide the updated single line diagram in the technical proposal.	
460.		Drawings	N	D-330 kV Nakonde Stepdown Substation SLD; C-NAK-330 kV Nakonde Stepdown Substation Layout	Refer to amended drawings PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026 and D-330 kV Nakonde Stepdown Substation SLD_REV03_30062026

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				 In the single-line diagram and layout drawing, for the 330kV busbar reactor bay, the quantity of the Disconnector is different. Please confirm that the final technical solution needs to be presented in accordance with the single-line diagram.	
461.	12.22.5	Section VII – Employer's Requirements	N	Employer's Requirements – 12.22.5 Camera Location and Housing CCTV cameras are specified for Kasama Substation as per Table 12-31: Kasama 330kV Substation	Refer to RFC 185

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				indicative required number/type of CCTV cameras, while such items are not listed in the BOQ. Since Kasama Substation is a upgrading substation, we think CCTV under Kasama substation is not required to be supplied. Please confirm.	
462.	12.22.12	Section VII – Employer's Requirements	N	Employer's Requirements – 12.22.12 Access Control System Access control systems are specified for Kasama Substation as per Table 12-33: Kasama 330kV Substation indicative required number and type of equipment, while such items are not listed in the BOQ. Since Kasama Substation is a upgrading substation, we think access control systems under Kasama substation is not required to be supplied. Please confirm.	Refer to RFC 185
463.	Ch 3	ESMP	Y	ESMP-Chapter 3 Table 3-2 Management Measures to be Implemented during the Pre-Construction and Construction Phases It requires \$30,000 for Implement a sensitization program in order to educate and increase local communities' awareness on natural resources protection and overharvesting, which is included in Biodiversity management plan and the Implementation of BPM is PIU/Contractor. Please	The mitigation measures under the responsibility of the contractor shall be factored in the bid price Addendum 5 S.No 1 issued to add item 4.3.6 to price schedule

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				confirm who will be responsible for this cost and whether this cost shall be included in the bid price.	
464.	Ch 3	ESMP	Y	ESMP-Chapter 3 Table 3-2 Management Measures to be Implemented during the Pre-Construction and Construction Phases It requires that Provision for the GRM focal points \$75,000 (allowance to the GRM focal points, fuel, and vehicle rental), we understand that the employer is responsible for this cost and shall not included in the bid price. Please confirm.	The mitigation measures under the responsibility of the contractor shall be factored in the bid price (Price Schedule item 4.3) Refer to Addendum 5 S.No 1
465.	1.1.15.8.1	Price Schedules	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION Price Schedules - Package4_Section4 Item. 1.1.15.8.1 Please provide location of H pole, Please confirm it is near Housing Complex within the plot.	Refer to RFC 113
466.	12.12.55	Section VII – Employer's Requirements	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION 12.12.55 Tools	Bidders shall price for all tools and equipment as provided for in Price Schedule 1 items 1.3

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				The following are expected to be provided by the contractor: • Vacuum pump of adequate capacity for transformer insulation drying and oil filling • Oil pump and hoses, with a flow rate of at least 1.3 l/s (for oil filling of power transformers), should be portable and electrically operated • Transformer oil filtration streamliner, with a capacity of at least 5000 l/hr, complete with hoses and adapters. • SFRA Analyser • CPC 100 Transformer Analyzer • 100kV, Oil dielectric breakdown tester However, Price Schedules - Package 4 Section 4 item 1.3 Employer's Project Management, these equipments stated in 1.3.12, 1.3.16, 1.3.17, 1.3.18, 1.3.20 & 1.3.22. Hence, please confirm no additional tools as per 12.12.55 to be provided.	Employer's Project Management
467.		Drawings	N	Section VII – Employer's Requirements Package 4 Kasama SS Primary Equipment Section Drawing_AsBuilt_20102015 Please confirm whether the disconnector shall be mounted on the tower for Kasama Line bays as shown below.	Note that all as built drawings are provided for reference/interface only. Refer to A1-Kasama Substation Layout_REV01_3006

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
					2026 for proposed layout
468.		Drawings	N	Section VII – Employer's Requirements Package 4 - NAKONDE STEPDOWN (330/(132)66/11KV) SUBSTATION PP-ZTIP-P04-ODSS-C109_Nakonde SS GA_R00_30062026	Refer to Section VII 11.2.2 and 11.2.3

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				We understand for both 330kV & 132kV system, the busbar for future bays shall be in present scope. Please confirm.	
469.	RFC 115	ZTIP_RFB_Clarifications_Pack4_30062026	N	As confirmed Creepage Distance shall be 31mm/kV SCD. We understand following shall be the Creepage distance in mm. 1. 330 kV Equipment - $362 \times 31 = 11,222$ mm 2. 132kV Equipment - $145 \times 31 = 4,495$ mm Please Confirm.	Refer to GTS items for specific creepage distances
470.	ITB 36.2	Section II – Bid Data Sheet (BDS)	Y	The date for the exchange rate shall be: date not earlier than 28 days prior to the deadline for submission of the Bids, nor later than the date for the expiry of Bid validity specified in accordance with ITB BDS 19.1. We understand it shall be 28 days prior to the deadline for submission of the Bids. Please confirm.	Addendum 5 S.No 4 issued to amend details of Section II ITB 36.2
471.	RFC 274	ZTIP_RFB_Clarifications_Pack4_30062026	N	We understand that the critical components covered under the extended defect liability are transformers, reactors, circuit breakers, disconnectors, instrument transformers, SAS and WAMPACs 12 months from end of 24 Month DLP. i.e. $24 + 12 = 36$ Months. Please confirm our understanding.	Refer to RFC 274 and addendum 3 S.No 11
472.	RFC 20	ZTIP_RFB_Clarifications_Pack4_30062026	N	Circuit for point on wave relay is required for all circuit breakers for Kasama Substation.	Refer to RFC 20 and addendum 3 S.No 3

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
		ck4_30062026		We understand that this is applicable to Line as well as reactor breakers. Please confirm.	
473.	RFC 20	ZTIP_RFB_Clarifications_Pack4_30062026	N	Circuit for point on wave relay is required for all circuit breakers. Please confirm even for New Nakonde Substation all circuit breakers shall be with Circuit for point on wave relay.	Refer to RFC 20 and addendum 3 S.No 3
474.	RFC 67	ZTIP_RFB_Clarifications_Pack4_30062026	N	We understand that all expenses related to airfare, hotel accommodation, visa, and insurance (if applicable) for FAT and Training shall be borne by the Client (ZESCO). Local transportation shall remain excluded from the Client's responsibility. Kindly confirm.	Refer to RFC 67
475.		Section X - Contract Forms Appendix 2 – Price Adjustment	N	We have noted the Appendix 2 – Price Adjustment given in bid documents. Request your response on the following queries pertaining to Price Adjustment application : - We understand that we can propose separate Price Adjustment (PA) formulae for Transformer Supply, Reactors Supply, Circuit Breaker Supply, Disconnecter Supply, Instrument Transformer Supply, Surge Arrestor Supply, MV Switchgear Supply, Earthing Supply, Steel Structure Supply, Conductor supply, Earthwire supply, Civil Works, Erection Works, etc utilizing the given components	-Refer to RFC 279 -The Price Adjustment shall be the amount payable to the Contractor and valued at base rates and prices in the Payment Certificates issued by the Consultant shall be adjusted in respect of the rise or fall in the indexed costs of

S. No.	Specification Clause	Document Reference	Addendum Required [Y/N]	REQUEST FOR CLARIFICATION ON	EMPLOYER'S RESPONSE
				of Cement, Aggregate, Aluminium, Reinforcing Steel, Structural Steel, Copper, Transformer and Reactor Core material and Fuel component applicable for the respective formulae for Supplies of Transformer, Reactors, Circuit Breaker, Disconnecter, Instrument Transformer, Surge Arrestor, MV Switchgear, Earthing, Steel Structure, Conductor, Earthwire, Civil Works, Erection Works, etc. Please confirm. - Please confirm the Price Adjustment (PA) Calculation/Invoices can be submitted as per the Payment certificate (Joint measurement certificate) received from Client/Consultant on monthly basis or as per the site timelines. - Please confirm if the Adjustable date for Price Adjustment (PA) calculation can be considered as follows : > For Supply of Equipment/Materials : 49 days prior to Shipment / BL date (Applicable Indices) > For Civil Works : 49 days prior to Site JMC (Applicable Indices) > For Erection & Testing works : 49 days prior to Site JMC (Applicable Indices)	materials and other inputs to the Works as indicated in the Price Adjustment Formula -Refer to RFC 271
476.	RFC 354	ZTIP_RFB_Clarifications_Pack4_30062026	N	The 110°C requirement applies to the auxiliary wiring at fan motors, oil pumps, and monitoring devices mounted on the transformer tank.	Refer to Section VII 12.12.48: "Power cables shall be of XLPE insulated, with steel armouring, rated

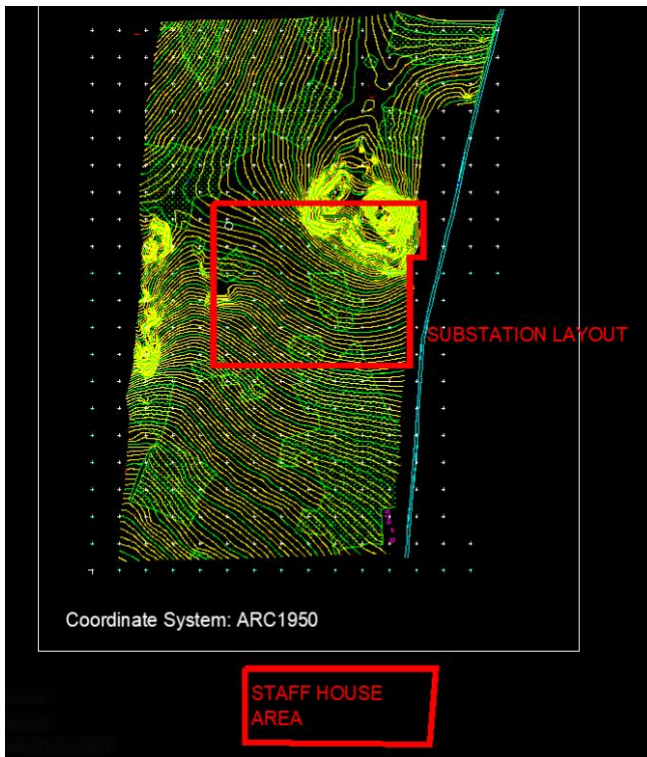
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				According to the clarification response, some cables are required to withstand temperatures of 110°C. Can the material of such cables be determined by the design team?	<i>voltage 1 kV, 50 Hz. The conductors shall be copper for cables ≤ 36 kV and of aluminium for cables >36 kV. Control cables shall be PVC-insulated, rated voltage 300/500 V, 50 Hz and shall be steel armoured. The conductors shall be highly flexible stranded copper.”</i>																																																																																																																														
477.		Drawings	N	PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 <table><tr><td colspan="3">Property Coordinates (WGS84)</td><td colspan="3">Substation Boundary Coordinates (WGS84)</td><td colspan="3">Landing Gantry Coordinates (WGS84)</td></tr><tr><td>Reference Point</td><td>Easting (m)</td><td>Northing (m)</td><td>Reference Point</td><td>Easting (m)</td><td>Northing (m)</td><td>Reference Point</td><td>Easting (m)</td><td>Northing (m)</td></tr><tr><td>A</td><td>456477.049</td><td>8963969.422</td><td>SS1</td><td>456524.080</td><td>8963929.654</td><td>LG01</td><td>456801.830</td><td>8963812.494</td></tr><tr><td>B</td><td>456977.007</td><td>8963968.345</td><td>SS2</td><td>456821.830</td><td>8963929.654</td><td>LG02</td><td>456801.830</td><td>8963773.494</td></tr><tr><td>C</td><td>456899.315</td><td>8962971.279</td><td>SS3</td><td>456861.830</td><td>8963929.654</td><td>LG03</td><td>456541.455</td><td>8963731.180</td></tr><tr><td>D</td><td>456396.934</td><td>8962956.000</td><td>SS4</td><td>456861.830</td><td>8963888.654</td><td>LG04</td><td>456541.455</td><td>8963773.180</td></tr><tr><td></td><td></td><td></td><td>SS5</td><td>456843.330</td><td>8963888.654</td><td>LG05</td><td>456541.455</td><td>8963867.680</td></tr><tr><td></td><td></td><td></td><td>SS6</td><td>456843.330</td><td>8963879.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS7</td><td>456836.830</td><td>8963879.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS8</td><td>456821.830</td><td>8963879.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS9</td><td>456836.830</td><td>8963879.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS10</td><td>456561.080</td><td>8963879.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS11</td><td>456561.080</td><td>8963864.654</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SS12</td><td>456524.080</td><td>8963864.654</td><td></td><td></td><td></td></tr></table> Note: Coordinates have been provided for bidding/ cost e	Property Coordinates (WGS84)			Substation Boundary Coordinates (WGS84)			Landing Gantry Coordinates (WGS84)			Reference Point	Easting (m)	Northing (m)	Reference Point	Easting (m)	Northing (m)	Reference Point	Easting (m)	Northing (m)	A	456477.049	8963969.422	SS1	456524.080	8963929.654	LG01	456801.830	8963812.494	B	456977.007	8963968.345	SS2	456821.830	8963929.654	LG02	456801.830	8963773.494	C	456899.315	8962971.279	SS3	456861.830	8963929.654	LG03	456541.455	8963731.180	D	456396.934	8962956.000	SS4	456861.830	8963888.654	LG04	456541.455	8963773.180				SS5	456843.330	8963888.654	LG05	456541.455	8963867.680				SS6	456843.330	8963879.654							SS7	456836.830	8963879.654							SS8	456821.830	8963879.654							SS9	456836.830	8963879.654							SS10	456561.080	8963879.654							SS11	456561.080	8963864.654							SS12	456524.080	8963864.654				Refer to RFC 236 and Addendum 3 S.No 9 Refer to RFC 482
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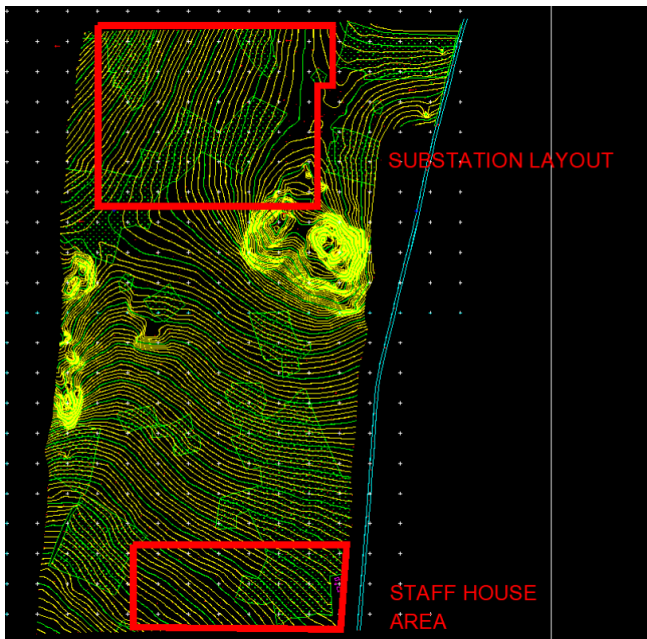
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				Based on the provided WGS84 coordinate points, Converted to the ARC 1950 system and positioned on the topographic map, The location is off. Please provide the topographic map for WGS84 or coordinate points for ARC 1950.																																					
478.			N	11052026_ZTIP_RfB_NAKONDE SUBSTATION_PACKAGE 4_ISSUED/Page 229 <table><tr><td>4.1.19.3</td><td>Roadways and Pavements</td><td></td><td></td></tr><tr><td>4.1.19.3.1</td><td>200mm thick by 6m wide heavy duty reinforced concrete road (complete with kerbing, road markings, signage, and storm water drainage channels). [Allow for lane widening for lay-bys.]</td><td></td><td></td></tr><tr><td>4.1.19.3.2</td><td>- Internal Access Road</td><td>1.5</td><td>km</td></tr><tr><td>4.1.19.3.3</td><td>- External Access Road</td><td>0.2</td><td>km</td></tr><tr><td>4.1.19.3.4</td><td>- External access road (from gate 02 to proposed asphalt road, via staff housing area)</td><td>1.3</td><td>km</td></tr><tr><td>4.1.19.3.5</td><td>200mm thick reinforced concrete internal pavement (between access road and around control building)</td><td>1000</td><td>m2</td></tr><tr><td>4.1.19.3.6</td><td>300mm Thick Reinforced Concrete Slipway (around transformers and reactors)</td><td>1</td><td>Lot</td></tr><tr><td>4.1.19.3.7</td><td>Supply and install 80mm interlocking paving bricks for the yard including all layer works, edge restraints as per specification</td><td>1000</td><td>m2</td></tr><tr><td>4.1.19.3.8</td><td>Construct 9m wide (7m-main carriageway + 2m-shoulders asphalt road from the main road complete with drainage on both sides. (This shall include road markings, kerbing reinforced concrete stormwater drainage channels & culverts road markings, and any other road furniture required by the Road Development Agency.</td><td>1.5</td><td>km</td></tr></table> Quotation item of 4.1.19.3 Roadways and Pavements, have provided specific numerical values for the engineering quantities. Please confirm the contractual forms for these items. a. Total Price Contract	4.1.19.3	Roadways and Pavements			4.1.19.3.1	200mm thick by 6m wide heavy duty reinforced concrete road (complete with kerbing, road markings, signage, and storm water drainage channels). [Allow for lane widening for lay-bys.]			4.1.19.3.2	- Internal Access Road	1.5	km	4.1.19.3.3	- External Access Road	0.2	km	4.1.19.3.4	- External access road (from gate 02 to proposed asphalt road, via staff housing area)	1.3	km	4.1.19.3.5	200mm thick reinforced concrete internal pavement (between access road and around control building)	1000	m2	4.1.19.3.6	300mm Thick Reinforced Concrete Slipway (around transformers and reactors)	1	Lot	4.1.19.3.7	Supply and install 80mm interlocking paving bricks for the yard including all layer works, edge restraints as per specification	1000	m2	4.1.19.3.8	Construct 9m wide (7m-main carriageway + 2m-shoulders asphalt road from the main road complete with drainage on both sides. (This shall include road markings, kerbing reinforced concrete stormwater drainage channels & culverts road markings, and any other road furniture required by the Road Development Agency.	1.5	km	Refer to Section X - Appendix 1: Terms and Procedures of Payments
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479.		Drawings	N	PP-ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026 <table><caption>Property Coordinates (WGS84)</caption><thead><tr><th>Reference Point</th><th>Easting (m)</th><th>Northing (m)</th></tr></thead><tbody><tr><td>A</td><td>456477.049</td><td>8963949.422</td></tr><tr><td>B</td><td>456977.007</td><td>8963948.345</td></tr><tr><td>C</td><td>456899.315</td><td>8962971.279</td></tr><tr><td>D</td><td>456396.934</td><td>8962956.000</td></tr></tbody></table><table><caption>Substation Boundary Coordinates (WGS84)</caption><thead><tr><th>Reference Point</th><th>Easting (m)</th><th>Northing (m)</th></tr></thead><tbody><tr><td>SS1</td><td>456524.080</td><td>8963929.654</td></tr><tr><td>SS2</td><td>456821.830</td><td>8963929.654</td></tr><tr><td>SS3</td><td>456861.830</td><td>8963929.654</td></tr><tr><td>SS4</td><td>456861.830</td><td>8963888.654</td></tr><tr><td>SS5</td><td>456843.330</td><td>8963888.654</td></tr><tr><td>SS6</td><td>456843.330</td><td>8963879.654</td></tr><tr><td>SS7</td><td>456836.830</td><td>8963879.654</td></tr><tr><td>SS8</td><td>456821.830</td><td>8963879.654</td></tr><tr><td>SS9</td><td>456836.830</td><td>8963679.654</td></tr><tr><td>SS10</td><td>456561.080</td><td>8963679.654</td></tr><tr><td>SS11</td><td>456561.080</td><td>8963664.654</td></tr><tr><td>SS12</td><td>456524.080</td><td>8963664.654</td></tr></tbody></table><table><caption>Staff Housing Boundary Coordinates (WGS84)</caption><thead><tr><th>Reference Point</th><th>Easting (m)</th><th>Northing (m)</th></tr></thead><tbody><tr><td>H1</td><td>456582.315</td><td>8963086.279</td></tr><tr><td>H2</td><td>456882.315</td><td>8963086.279</td></tr><tr><td>H3</td><td>456882.315</td><td>8962986.279</td></tr><tr><td>H4</td><td>456582.315</td><td>8962986.279</td></tr></tbody></table> Note: Coordinates have been provided for bidding/ cost e The coordinates of the substation and the living area have been provided. Please confirm whether we can move the location to achieve the lowest cost of earthwork.	Reference Point	Easting (m)	Northing (m)	A	456477.049	8963949.422	B	456977.007	8963948.345	C	456899.315	8962971.279	D	456396.934	8962956.000	Reference Point	Easting (m)	Northing (m)	SS1	456524.080	8963929.654	SS2	456821.830	8963929.654	SS3	456861.830	8963929.654	SS4	456861.830	8963888.654	SS5	456843.330	8963888.654	SS6	456843.330	8963879.654	SS7	456836.830	8963879.654	SS8	456821.830	8963879.654	SS9	456836.830	8963679.654	SS10	456561.080	8963679.654	SS11	456561.080	8963664.654	SS12	456524.080	8963664.654	Reference Point	Easting (m)	Northing (m)	H1	456582.315	8963086.279	H2	456882.315	8963086.279	H3	456882.315	8962986.279	H4	456582.315	8962986.279	The requirements provided for shall stand and are sufficient for bidding purposes
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480.		General	N	The elevation datas on Google Earth and topographic maps do not match. There is a difference of 5 to 6 meters. We believe that the datas on the topographic map is correct. Please confirm.	The elevation information issued with the Bidding Document is provided for reference and guidance purposes only. The topographic map shall be used for																																																																					

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					preliminary design and bidding purposes in accordance with its respective intended applications. The Contractor shall in any event carry out its own detailed topographical survey, on which all detailed design shall be based.
481.	RFC 198	ZTIP_RFB_Clarifications_Pack4_30062026	N	The Nakonde transformers and reactor are indivisible “abnormal/super loads” (EACVLC Act 2016, s.2, pp.3–4) that exceed standard road transport limits and require a Special Permit (Act s.9(1), p.12). The delivery need to be routed via Tanzania (Dar es Salaam) along the Central/Sumbawanga Corridor (First Schedule, Corridors 2 & 5, pp.29–30) – bringing the shipment under TANROADS enforcement of the EAC Vehicle Load Control Act 2016 and its Enforcement Measures Regulations, 2018. This has material cost implications: the GVW overloading fee for the top band ($\geq 31,500$ kg overload) is USD 375,266.60 (Enforcement Regulations 2018, Reg. 11 & Third Schedule Part II,	Note that the pricing for schedule 1 Imported materials is CIP to site. Hence, the price for the Bidder shall include all costs for all transportation requirement to site

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				pp.24–26). Because the cargo cannot be part-unloaded, the unit will remain overloaded at every subsequent weighbridge on the Tanzania leg, triggering the compounding provision at Regulation 14(5) (p.10), which charges the fee at 3× on each repeat detection. Total exposure per such unit is therefore 4× the base fee – USD 1,501,066.40. We request the Employer to confirm: (i) that the Tanzania (Dar es Salaam)–Nakonde route is to be considered by all Bidders or Customer will make any special arrangements for overload costs waiver; and (ii) the resulting TANROAD/EAC overload costs are to be considered by Contractor.																																					
482.			N	During our review and estimation of the earthwork quantities for the Nakonde Greenfield Substation and Staff Housing area, based on the survey and layout documents provided by ZESCO, we have identified discrepancies relating to the coordinate positioning of the proposed facilities and the Finished Ground Level (FGL) references. 1. When we plotted the coordinates of the Substation and Staff Quarter, we observed that both locations fall outside the designated plot area. Please refer to the attached drawing below for details.	<table><tr><th colspan="3">Property Coordinates (WGS84)</th></tr><tr><th>Reference Point</th><th>Easting (m)</th><th>Northing (m)</th></tr><tr><td>A</td><td>456477.049</td><td>8963969.422</td></tr><tr><td>B</td><td>456977.007</td><td>8963968.345</td></tr><tr><td>C</td><td>456899.315</td><td>8962971.279</td></tr><tr><td>D</td><td>456396.934</td><td>8962956.000</td></tr></table> <table><tr><th colspan="3">Staff Housing Boundary Coordinates (WGS84)</th></tr><tr><th>Reference Point</th><th>Easting (m)</th><th>Northing (m)</th></tr><tr><td>H1</td><td>456582.315</td><td>8963086.279</td></tr><tr><td>H2</td><td>456882.315</td><td>8963086.279</td></tr><tr><td>H3</td><td>456882.315</td><td>8962986.279</td></tr><tr><td>H4</td><td>456582.315</td><td>8962986.279</td></tr></table> The coordinates above shared by ZESCO are in (WGS84) (Map PP-	Property Coordinates (WGS84)			Reference Point	Easting (m)	Northing (m)	A	456477.049	8963969.422	B	456977.007	8963968.345	C	456899.315	8962971.279	D	456396.934	8962956.000	Staff Housing Boundary Coordinates (WGS84)			Reference Point	Easting (m)	Northing (m)	H1	456582.315	8963086.279	H2	456882.315	8963086.279	H3	456882.315	8962986.279	H4	456582.315	8962986.279
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				 Coordinate System: ARC1950	ZTIP-P04-ODSS-C108_Nakonde Site Plan_R00_30062026) Note the following: 1. Ensure that the Base Map or Geospatial Platform being used to analyze the Nakonde Substation area is configured to the same coordinate reference system as that shown on the map shared by ZESCO 2. The coordinate system to be used is WGS 1984, UTM Zone 36L. 3. However If the Geospatial analysis Platform is not compatible with the WGS 84 coordinate system, please engage a
				2. We then used the Road coordinates as a reference and re-plotted the Substation and Staff Quarter coordinates accordingly. Based on this reference, we found that both the Substation and Staff Quarter locations fall within the designated Plot area. Please refer to the attached drawing below for details.	

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				 3. We then estimated the Cut & Fill Quantities for Sl. No. 2, and for the two FGLs mentioned in the Land Development Option Drawings (No. F-330 kV Nakonde Stepdown Substation Terracing_REV01_30062026) <u>Cut & Fill Quantity (FGL as mentioned in Tender Document)</u> - For Substation Area the FGL is +1482 m to +1490 m • Cutting: 852 m³	Geomatics Expert and convert the coordinates from WGS 84 (UTM Zone 36L) to Arc 1950 / UTM Zone 36S (EPSG:20936) before undertaking any spatial analysis. FGL needs to be optimized to whichever option the bidder shall choose to base their design on. Refer to RFC 480

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				• Filling (Compacted): 726,145 m³ <u>Cut & Fill Quantity (Optimized FGL as per Our Estimation)-</u> For Substation Area the FGL is +1474 m to +1484 m • Cutting: 189,750.79 m³ • Filling (Compacted): 117,278.45 m³ For Staff Housing Area the FGL is +1448 m • Cutting: 82,100.70 m³ • Filling (Compacted): 54,934.92 m³ In view of the variation in the Cut & Fill quantities estimated based on the Client's FGL and our proposed FGL, we request the following clarifications: 1. Please confirm the correct coordinates of the Substation and Staff Housing areas with reference to the topographic survey layout provided in the tender documents. 2. Please confirm whether the FGL values indicated in Document-3 are mandatory and shall be strictly adopted for the design, or whether optimization of the FGLs based on the actual site topography, as determined by us, is acceptable.	

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				3. If the FGLs provided in Document-3 are to be strictly followed, we request ZESCO to kindly verify the coordinate reference system (CRS) and alignment of the topographic survey file, as the coordinates shown in the current layout do not appear to correspond with the topographic survey data provided in the tender documents. Considering the significant impact of these issues on the earthwork quantities, cost, and overall site development, we kindly request ZESCO to provide the above clarification and confirm the design basis to be adopted before finalization of the earthwork quantities and detailed site development design.	