



Report

Transmission

Title: **Everest - Makalu 275kV Permanent
Solution: Engineering Tender
Evaluation Criteria**

Template Unique Identifier:

240-141157901

Template Revision:

3

Project Unique Identifier:

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Document Unique Identifier:

LES1347

Area of Applicability:

Engineering

Documentation Type:

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**CONTROLLED
DISCLOSURE**

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Date: 12 August 2021

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Date: 12 August 2021

Authorised by


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Chairperson**

Date: 12 Aug 2021

1. SUMMARY OF THE SCOPE OF WORK

- Survey, pegging of new T237 foundations
- Installation of new T237 foundations
- Supply and assembly new T237 tower-type 424A
- Erection of new 424A tower
- Disconnect phase conductor and earthwire from KEMA and connect to new 424A tower
- Replace earthpeak on tower 238
- String, regulate and clamp in new OPGW from tower 233 to 241
- Decommission KEMA towers

	Everest - Makalu 275kV Permanent Solution: Engineering Tender Evaluation Criteria	Transmission
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2. LIST OF TECHNICAL RETURNABLES FOR AN OPEN TENDER

Please submit all Engineering documentation described in the tables below in a separate file.

The file must be clearly marked **Everest - Makalu 275kV Permanent Solution: Engineering Tender Evaluation Returnables Form**

It must be noted that the supplier(s) must submit safe working procedures for the refurbishment of the tower and OPGW installation

The documents must be submitted in a numbering sequence as described in the tables

The documents must be submitted in a **numbering** sequence as described in the table below; otherwise the tender submission will not be evaluated.

Certain documents are mandatory, and indicated as such in the table. The percentage score allocated to each section are shown in brackets.


Please note that the minimum Technical (also called Engineering) score to qualify is **70%**. All safe work procedures are mandatory and require a minimum of 70% for each of them.

Please note the following are Free-issue items:

- OPGW and hardware
- Insulators
- Hardware
- Hardware fittings including aircraft warning spheres, bird diverters and bird guards

The following items are to be Supplied and Installed by contractor:

- Towers and foundations as per **LES Transmission Design Report and Line Specification U.TX201.035/07/06/001**

 Transmission Power Delivery Engineering Line Engineering Services (LES)		Engineering Tender Evaluation Returnable Form (for a Transmission Powerline)						Template No.:	240-141157902
								Template Rev:	3
								Document No:	LES1347
								Document Rev:	1
Name of Project:		Everest - Makalu 275kV Permanent Solution						Name of Supplier:	
Item	Description	Select Option	Tick Applicable Box	Score by Evaluator	Weighting	Details to be submitted in engineering returnable file	Comments from Evaluator	Maximum allowable score	Actual subsection percentage
1.	FOUNDATIONS (20%)								
1.1	Provide a job profile of the foundation designer : - Qualification (BEng, BSc Eng, BTech) and ECSA professional registration - Experience and CV of the foundation designer (Minimum of 2 projects)	Nothing provided (0)			2.5%	Qualifications, ECSA and CV		5	0.0%
		Qualification and ECSA Pr. registration provided (2)							
		Qualification and ECSA Pr. registration provided with 1 project (4)							
		Qualification and ECSA Pr. registration provided with two projects (5)							
1.2	Provide job profile of the foundation supervisor : - Qualification (Certificate, Diploma etc.) - Experience and CV of the supervisor (Minimum 2 projects)	Nothing provided (0)			5%	Qualifications and CV		5	0.0%
		Only qualification provided (2)							
		Qualification and experience with one project (4)							
		Qualification and experience with two projects (5)							
1.3	Provide method statement for the removal of the grillage: - Method statement for the removal of the grillage. - Risks and mitigations that may be encountered.	No method statement provided (0)			2.5%	A full method statement		5	0.0%
		Method statement provided without risks and mitigations (4)							
		Method statement provided with all risks and mitigations. (5)							
1.4	Provide method statements, risks and mitigations for all aspects of foundation construction: - Soil nomination - Excavation and stub setting - Placing of the rebar and earthing - Slump test and cube tests - Pouring of concrete, curing and backfilling - Soil compaction and backfill - Highlight the risks and mitigations that may be encountered - Provide pictures and/or drawings	No method statement provided (0)			10%	A full method statement		5	0.0%
		Method statement provided with some sub-activities covered, with risks and mitigations not covered (2)							
		Method statement provided with all sub-activities covered, but risks and mitigations not all covered (4)							
		Method for all sub-activities covered plus risks and mitigations have been provided with drawings and/or pictures (5)							
2.	TOWERS (25%)								
2.1	Provide a job profile of the tower temporary works designer: - Qualification (Beng, BSc Eng, BTech, etc.) - Experience (Minimum of two projects)	Nothing provided (0)			2.5%	Qualifications and CV		5	0.0%
		Only qualification provided (2)							
		Only qualification provided and one project (4)							
		Qualification and experience with two projects (5)							
2.2	Provide a job profile of the tower assembly and erection supervisor: - Qualification (Certificate, Diploma etc.) - Experience and CV of the supervisor (Minimum two projects)	Nothing provided (0)			5%	Qualifications and CV		5	0.0%
		Only qualification provided (2)							
		Qualification and experience with one project (4)							
		Qualification and experience with two projects (5)							
2.3	Provide method statements, risks and mitigations for all aspects of tower assembly and erection: - Tower assembly - Tower erection - Associated risk and mitigations - Include pictures and drawings	Method statement not provided (0)			15%	A full method statement		5	0.0%
		Detailed step by step method statement for assembly and erection with pictures and/or drawings but no risks and mitigations (2)							
		Detailed step by step method statement for assembly and erection with all the risks and mitigations provided (4)							
		Detailed step by step method statement for assembly and erection with risks, mitigations, pictures and drawings provided (5)							
2.4	Provide a letter of undertaking from the tower supplier stating the willingness and availability of the supplier to be involved in the project should bidder be successful	No suppliers provided (0)			2.5%	A full method statement		5	0.0%
		More than one supplier provided (5)							
3.	EARTHING (10%)								
3.1	Provide a method statement with all risks and mitigations of how the contractor will ensure compliance to the earthing and working in close proximity to live lines etc. - Detailed method statement - Risks and mitigations - Pictures and drawings	No method statement provided (0)			10%	A full method statement		5	0.0%
		Method statements provided without risks and mitigations (2)							
		Detailed step by step method statement provided with risks and mitigations, no pictures and drawings (4)							
		Detailed step by step method statement provided with all risks and mitigations covered and pictures and/or drawings provided (5)							

4. REMOVAL OF KEMA TOWERS (10%)																					
4.1	Provide detailed a method statement for dismantling of the KEMA towers. - Removal of earthwire and phase conductors - Dismantling the towers - Associated risks and mitigations - Include pictures or drawings to clarify these processes.	No method provided (0)			10%	A full method statement		5	0.0%												
		Method statement provided without risks, mitigations, pictures and drawings (2)																			
		Detailed step by step method statement with mitigations and risks without pictures and drawings (4)																			
		Detailed step by step method statement with mitigations and risks with pictures and drawings (5)																			
5. OPGW STRINGING AND REGULATION (20%)																					
5.1	Provide a job profile for the supervisor that will be accountable for OPGW stringing and regulation activities. - Qualification (Certificate, Diploma etc.) - Experience and CV of the supervisor (Minimum 2 projects)	Nothing provided (0)			5%	Qualifications and CV		5	0.0%												
		Only qualification provided (2)																			
		Qualification and experience with one project (4)																			
		Qualification and experience with two projects (5)																			
5.2	Provide a detailed method statement for the installation of OPGW from tower 233 to 241 including stringing and regulation. - Installation methodology - Stringing and regulation - Associated risks and mitigation. - Pictures and/or drawings to clarify the process.	Method statement not provided (0)			15%	A full method statement		5	0.0%												
		Detailed step by step method statement for stringing and regulation with pictures and/or drawings but no risks and mitigations (2)																			
		Detailed step by step method statement for stringing and regulation with all the risks and mitigations provided (4)																			
		Detailed step by step method statement for stringing and regulation with risks, mitigations, pictures and drawings provided (5)																			
6. EARTHPEAK REPLACEMENT (5%)																					
6.1	Provide a safe working procedure for replacement of the earthpeak on tower 238. - Installation methodology - Associated risks and mitigations - Pictures and/or drawings to clarify the process	Method statement not provided (0)			5%	A full method statement		5	0.0%												
		Detailed step by step method statement with pictures and/or drawings but no risks and mitigations (2)																			
		Detailed step by step method statement provided with all the risks and mitigations provided (4)																			
		Detailed step by step method statement provided with risks, mitigations, pictures and drawings provided (5)																			
7. FEEDBACK FROM CONTRACTORS' CLIENT																					
7.1	Provide a letter of reference from a client that the contractor has done similar work for (at least two projects). The letter must state the voltage level and the scope of work that was covered. The letter must also give an indication of the performance of the contractor. - Voltage level (at least 275kV) - Scope of work covered - Performance of the contractor	Letter/reference not provided (0)			10%	Detailed signed letter from the contractor's client.		5	0.0%												
		One letters/references provided with all details (2)																			
		Two letters/references provided with all details (4)																			
		More than two letters/references provided with all details (5)																			
					0%	100%															
A total of 70% or higher is required to pass this engineering tender evaluation																					
I HAVE READ AND UNDERSTOOD ALL REQUIREMENTS OF THE TRANSMISSION LINE SPECIFICATION, TRMSCAAC AND OTHER REFERENCED SPECIFICATIONS AND AGREE TO ADHERE TO THESE.																					
Technical Tender Returnable Form Populated by: <table border="1" style="width:100%"> <tr> <td colspan="2">Signature:</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Date:</td> <td colspan="2"></td> </tr> <tr> <td>Overall Comments by Evaluator:</td> <td colspan="3"></td> </tr> </table>										Signature:				Date:				Overall Comments by Evaluator:			
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Overall Comments by Evaluator:																					
Evaluated by				Reviewed by		Authorised by LES Senior Manager															
Name of Evaluator:				Name of Reviewer:				Name of Authoriser:													
Signature of Evaluator:				Signature of Reviewer:				Signature of Authoriser:													
Date:				Date:				Date:													

Score	(%)	Definition
5	100	COMPLIANT <ul style="list-style-type: none"> • Meet technical requirement(s) AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; <ul style="list-style-type: none"> • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none"> • Does not meet technical requirement(s) AND/OR; • Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

Clarification Notes:

1. It is important to file all documents properly, in separate sections of the file. Clearly mark the sections.
2. Not providing the supporting documentation will result in a ZERO score for that particular question.
3. ECSA is preferred but other equivalent (ECSA acceptable) registrations will be considered.
4. SWP - Safe Works Procedure
5. Please note that if the relevant registered professional mentioned above, changes, the profile of the person taking up this post as a replacement must have an equivalent profile as outlined above.