



REQUESTS FOR CLARIFICATION / RESPONSES TO BIDDERS

(Up to December 12, 2020) Rev. 03

<u>Project</u>: WAPP-North Core/Dorsale Nord, Regional Power Interconnector Project <u>RFB</u>: PQ/EPC-TL/WAPP-NC/WB#01 / Lot 1-TL CLARIFICATIONS N°2

N°	Section from Bidding documents	Part	Clause	Page	Questions	Ans
1	Particular General Requirements		Particular Technical Requirements 7. Design Parameters 7.5 Loading assumptions 7.5.2 Dynamic wind speed and pressure		Period of 3 seconds Period of 10 seconds Speed(m/s). Pressure (N/m?). Speed(m/s). 46 m/s 1323. 33 m/s 681 681 Please clarify: What should be the wind pressure on conductor and earth wire? Is it 3 second gust (1323N/ sq.m – clause 7.5.2) or 10 minutes average (681N/ sq.m)?	Clause 9.4.2 s on the line eq calculated bas speed of Vb,0
2	Particular General Requirements				Please clarify: Span factor of Gx and drag factor of Cx (clause 4.3.5) to be added extra or not to arrive at wind on tower components.	The wind ford clause 4.3.5, i factor Cx are qp(h).
3	Particular General Requirements		Particular Technical Requirements 7. Design Parameters 7.5 Loading assumptions 7.5.2 Dynamic wind speed and pressure		Please clarify:AAs per EN 50341 peak wind pressure Qp(h) to be multiplied by GxPand Cx and then by partial factors of the order 1.0 to 1.25 but the specification asks for safety factors of order 2.0 multiplied by partial factor 1.1. Thus please confirm if 10min average wind can be taken instead of 3 sec gust for the wind load calculations.	
4	Particular General Requirements		Particular Technical Requirements 9. Towers 9.4.3 Conductor tension loads 9.5.1 Normal load cases (N1 and N2)		Please clarify: The critical load case for normal conditions N1 and N2 is 30deg maximum wind as per 9.5.1 but as per 9.4.3 the critical load case is 10deg maximum wind. Please clarify which one to follow.	Please correct "The maximu conductors is • The m press • The m condi Then the max used with ma conditions N1



nswers / Clarifications

2 specifies that the wind loads equipment and tower shall be based on the reference wind b,0 = 33 m/s.

orce shall be calculated as in 5, i.e. span factor Gx and drag re applied to peak wind pressure

504341-1 :2012 the <u>peak</u> wind p(h) = [1+7 lv(h)] * qh(h) is to be by Gx and Cx to obtain the wind by component QWx.

ect the clause 9.4.3 as follows: num working stress of the s is based on: e maximum design wind essure condition <u>OR</u> e minimum design temperature ndition"

naximum wind pressure shall be maximum wind for normal N1 and N2.

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CLARIFICATIONS N°2

N°	Section from Bidding documents	Part	Clause	Page	Questions	Ans
5	Particular General Requirements		Particular Technical Requirements 9. Towers 9.5.2 Anti-cascading normal load case (N3) 9.5.3 Broken Wire load case (E1)		For anti-cascade and broken cases the critical load cases is 10deg normal wind as per 9.5.2 and 9.5.3. Please clarify what is the meaning of normal wind in this case. Is it reduced wind pressure? If so what is the value in terms of percent of maximum wind pressure.	For the calcul exceptional lo speed of Vb,c 7.5 shall be u
6	Particular General Requirements				Missing max temperature for earth wire & OPGW	Sagging temp temperature
7	Particular General Requirements				Missing OPGW & earth wire properties	According to shall be ACS t section of 70 with standard 61395. The choice of the Contracto design similar have a good r allowing prop phase conduc
8	Particular General Requirements				In the BOQ, we notice that LIDAR survey needs to be used for 62 kms. As we know, the LIDAR survey is not so cost effective, and LIDAR survey is useful for environmental and social studies but this has already been completed. Could you please provide us the ESIA and RAP report?	Already replic
9	Particular General Requirements				We have also seen that the wind speed proposed is less only 33m/sec which is different from the TCN specifications. Also the creepage is 25mm/kV which is less that 31mm/kV in TCN specifications. Which one we shall follow.	Comply with Requirement

nswers / Clarifications

culation of normal loads and I loads, the reference wind b,o = 33 m/s defined in clause e used.

mperature is 55°C (max air re) for earthwire & opgw to clause 8.2., the earthwire S type with a minimum cross-70 mm² and shall be compliant ards EN 501382, IEC 61232, IEC

of OPGW is the responsibility of ctor. The OPGW shall have a ilar to the earthwire and shall d mechanical performance roper sag co-relation with the fuctor.

blied under Clarifications 1

th the Particular Technical nts of the tender documents





REQUESTS FOR CLARIFICATION / RESPONSES TO BIDDERS

Bulletin # 3

<u>Project</u>: WAPP-North Core/Dorsale Nord, Regional Power Interconnector Project <u>RFB</u>: PQ/EPC-TL/WAPP-NC/WB#01 / Lot 1-TL

N°	Section from Bidding documents	Part	Clause	Page	Questions	Answers / Clarifications
1.					Can the minimum thickness of a redundant members be adjusted to use 4mm instead of 5mm?	Yes, only for redundant members.
2.					Considering the national holiday of New year and Spring festival in China, in order to provide a good offer, we sincerely request the submission deadline to be extended	The submission deadline has already been extended to January 29, 2021, by amendment No.1.

				to February 26, 2021.	
3.	Section III - Evaluation and Qualificatio n Criteria	2.4	Personnel	It is required to provide the appointment Program of missions to the Project Site for the Project Director . Please clarify the detail of this appointment, and shall we provide the appointment in the bidding stage?	It is mandatory to provide the project director's mission program and demonstrate that this program will allow effective and rigorous monitoring at all times.
4.	Section III - Evaluation and Qualificatio n Criteria	2.4	Personnel	The Project Director and all the site personnel listed above must be fluent in English. The Bidder must certify this fact on the CV of the candidates presented. The subsequent acknowledgment by the Employer will be immediate replacement. Please clarify the detail what kind of documents are needed for certifying English ability.	The Director and the personnel at site and other key personnel must demonstrate their ability to communicate in English at all times, for any situation and provide the necessary proof, either by training received, work certificates from previous employers attesting to this fact or other document deemed appropriate.
5.	Section III - Evaluation and Qualificatio n Criteria	2.5	Equipment Equipment Type:25 T metallic derrick Minimum Number required: 5 pcs	According to our knowledge, for 330kV transmission line installation, metallic derrick with lower tons such as 5 to 6 tons is enough. Please clarify the capability 25T of metallic derrick	The contractor will decide which equipment to use, depending on the pylon erection method he has chosen, whether it is with a metal lifting jib (metal derrick) or other crane type equipment. The lifting equipment that will be used must have sufficient capacity in all circumstances and the contractor must demonstrate this, through the specifications provided and the description of the methodology for use.
6.	Section IV – Bidding		Manufacturer's Authorization	Please kindly provide the name of company who should be addressed	The manufacturer authorization should be addressed To

	Forms		as the recipient of Manufacturer's Authorization, Transmission Company of Nigeria or WAPP NORTH CORE, Regional Power Interconnector Project Nigeria, Niger, Benin and Burkina Faso?	West African Power Pool (WAPP).
7.	Section IV – Bidding Forms	2.6 Subcontractors Conditions on Subcontractors d) Subcontracting of works shall meet the following. The main contractor shall propose list of possible subcontractors for each of the works and submit their license, experience (reference lists, key personnel qualifications, financial standing and work in hand for Employer ' s evaluation, failure to do so may result in rejection of the bid.	Please kindly provide the details of requirement on financial standing and work in hand. Shall we provide audited balance sheet or credit line as financial standing? Shall we provide a list of work in hand only or shall we provide additional supporting evidence documents?	Comply with the item 2.6: All pertinent documents to reflect the clarity of the financial standing of subcontractors and as well to provide other documents listed in clause 2.6, as reference lists, key personnel qualifications, financial standing and work in hand, etc.
8.	BOQ	2.17 Foundation type Test 2.2.5 Tower type test 55 tower Type Tests	Please clarify : It is required to provide type tests in the BOQ and Technical Specification, is it OK for us to submit relevant report or we should find the designated laboratory to do the test again? If so, please provide the name and address of the laboratory	The tests should be carried by the contractors. The designated laboratory must be approved in advance by the Employer before the start of activities