United Nations Development Programme *Iraq*



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7 June 2017

Subject: RESPONSE TO REQUEST FOR CLARIFICATION Part 5 - IRQ ITB-154/17, Supply of Materials for 132kV Transmission Line Between Tal-Awailnat and Sinuni Sub-Districts (45 km length)

All Bidders are advised of the following response to requests for clarifications:

QUESTIONS	RESPONSE
is the existing 132kv line a TWIN TEAL ACSR or SINGLE TEAL ACSR?	The required accessories has been changed to SINGLE TEAL transmission line.
with reference to your attached clarification you are kindly requested to refer to the end user and clarify the following:	The 160KN tension insulator is fog type and insulator code is U160BSP as per the Iraqi standard specifications.
in the BOQ and compliance sheet annex (B) you have explicitly mentioned in section <u>1.5 shed profile</u> FOG. according to IEC standard this is a U160BSP	Attached please find revised compliance sheets Annex B to reflect the Changes. Further, revise compliance sheet Annex D is
however, the compliance sheet states U160BS which is not a Fog type and is a standard type.	also attached.
either delete fog type from section 1.5 (shed profile to read standard) or amend designation under section (1.7) to read U160 BSP instead of U160BS.	

Please be guided accordingly.

Thank you,

Ijaz Hussain

Head of Procurement, Service Center

Annex B

Tension Insulator

Tension Insulator							
No	Description	Unit	Specification				
140.			Required	Proposed			
1	GENERAL						
1.1	Manufacturer Name		To be filled in				
1.2	Country of Manufacturing		To be filled in				
1.3	Manufacturer Model Number		To be filled in				
1.4	Туре		Cap & Pin				
1.5	Shed Profile		Fog				
1.6	Standards		IEC 60383 IEC 60305				
1.7	Designation		U160BSP				
1.8	Material of Insulator		Toughened glass				
1.9	Minimum failing load	KN	160 kN				
1.10	Outside Diameter, Nominal	mm	330				
1.11	Creepage distance	mm	440				
1.12	Distance between centers of units, Nominal	mm	146				
1.13	Insulator pin diameter	mm	20				
1.14	Mass of Unit	kg	To be filled in				
1.15	Minimum 50 Hz puncture voltage of Unit	kV	130				
1.16	Power frequency withstand voltage, dry	kV	75				
1.17	Power frequency withstand voltage, wet	kV	45				
1.18	Minimum puncture voltage in oil	kV	110				

Annex D

Tension sets with hardware

Tension sets with hardware							
No.	Description	Unit	Specification				
			Required	Proposed			
1	Number of insulator strings per phase		2				
2	Minimum failing load of set fittings	KN	160				
3	Number of insulator units in each string, Nominal		12				
4	Overall length of set including clamp and all fittings	mm	To Be Filled				
5	Gap between arching horns fitted both live and earth ends	mm	To Be Filled				
6	Mass of set, complete with all fittings (and arcing horns at both ends)	kg	To Be Filled				
7	Overall length of creepage path per string	mm	To Be Filled				
8	 50Hz voltage tests a- Dry one minute withstand voltage of complete set b- Wet one minute withstand voltage of complete set 	kV	To Be Filled				
9	Dry impulse withstand voltage of complete set	kV	To Be Filled				
10	Corona test voltage	kV	To Be Filled				
11	Set RI voltage	kV	To Be Filled				
12	Set radio noise level	dB	To Be Filled				