

Supply, Construction, Testing & Commissioning of a 132kV transmission line from Wobthang Solar Project at Bumthang to Garpang.
(TENDER NO. BPC/C&PD/CMS/TENDER-2026/10)

Sl No.	Reference	Description	Bidder's Query	Clarification
1	1.4.2 Construction Experience in Key Activities	1.4.2 (a) Must be complied with by the Bidder. In case of a Joint Venture Bidder, the Bidder or at least one of the partners must meet the requirement in the key activity. For contracts under which the Bidder participated as a Joint Venture partner, only the Bidder's designated scope of works under the contracts shall be considered to meet this requirement. Strung ACCC conductors and earth wire/OPGW for a minimum length of 20km.	In case of a Joint Venture Bidder, the Bidder or at least one of the partners must meet the requirement in the key activity. Alternatively, the Bidder may nominate an experienced specialized subcontractor for execution of ACCC conductor stringing works, whose credentials for successful completion of similar works shall also be considered for meeting this requirement	No change to the Tender Stipulation.
2	ITB Clause 20.3	If a bid security is specified pursuant to ITB 20.1, the bid security shall be, at the Bidder's option, in any of the following forms: (a) an unconditional bank guarantee (hard copy of the bank guarantee or in the form of SWIFT message MT760), or (b) an irrevocable letter of credit, or (c) a cashier's or certified check all from a reputable source from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section 4 (Bidding Forms) or another form acceptable to the Employer. The form must include the complete name of the Bidder. The bid security shall be valid for 28 days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 19.2.	As per Clause 20.3 of the Instructions to Bidders (ITB), an irrevocable letter of credit is listed as one of the acceptable forms of bid security, provided it is issued from a reputable source from an eligible country. We would like to kindly confirm whether an irrevocable letter of credit issued by a licensed commercial bank in Bhutan would be acceptable as bid security for this tender.	Noted and Accepted.
3	2 Scope of Work - ix)	Conductor shall be supplied in wooden drums (as per drawing enclosed with the Specification). The empty drums of conductor/earth wire shall be used for the rewinding of old conductors removed from the line.	The conductor will be supplied in the eco-friendly non returnable steel drums conforming to IS 15976 standards, where the old conductors can be re-winded onto the steel drums with flexi packing. Please confirm the same.	Noted.
4	CHAPTER 1 TRANSMISSION LINE GENERAL	1.8 Design Spans Conductor tensions shall be checked for the conditions given, and also IS 802.	Please provide 1. Tension limitations on the tower at every day and full wind conditions.	Attached as annexure -I.
5	CHAPTER 7 ACCC CONDUCTOR	The above ampacity shall be established under the following reference conditions: ● Ambient temperature: 40°C ● Wind speed: 0.6 m/s ● Solar radiation: 1000 W/m ² ● Frequency: 50 Hz The calculations for Ampacity/Temperature shall be based on the latest IEEE Standard 738.	Please confirm that the assumed parameters were in line with the project requirements. Solar absorptivity, emissivity, and Elevation above sea level, the values of 0.5, 0.5 and 0 meters, respectively, were assumed, by which the conductor current carrying capacity meets the requirement of 1100A.	Solar absorptivity-0.5, emissivity-0.5, and 3200m above sea level (Elevation) shall be assumed to meet the requirement of conductor current carrying capacity of 1100A.
6	CHAPTER 7a ACCC CONDUCTOR	II. Core The Bidder shall furnish properties and composition of the core wire strands in the GTP.	The properties of the core wire, i.e., single solid composite core, comply with the latest ASTM B 987 standards, and the TC from the core manufacturer shall be submitted for review of the same. Since the core is non-metallic, the chemical composition is not applicable.	Noted.
7	CHAPTER 7a ACCC CONDUCTOR	Conductor Length The drum drawing as per IS 1778 or any international standard, shall be submitted to the purchaser for review and approval.	The drum drawing, as per IS 15976 (standard for Steel drums) or any international standard, shall be submitted to the purchaser for review and approval. Please confirm the same.	Noted.
8	CHAPTER 7a ACCC CONDUCTOR	On Conductor Strand/core b) Compression test on core	The compression test does not apply to the composite core strands.	Noted.
9	Taxes & Duties	Taxes & Duties	Kindly confirm that all the imported material shall be exempted from taxes & duties.	No change to the Tender Stipulation.
10	ACCC CONDUCTOR		Request for Considering "AECC" (Aluminum Encapsulated Carbon Fiber Composite Core) HTLS Conductor for the proposed transmission line project.	No change to the Tender Stipulation.
11	1.4.2 (a) Construction Experience in Key Activities		It is mentioned that "a minimum construction experience is required in the following key activities: Under Table-A, Sl. No. 2. Erection of at least 530 MT towers in hilly areas or similar terrain, with documentary evidence such as completion certificates. We understand that in case of a Joint Venture, this requirement may be fulfilled by any one JV partner. Kindly confirm if our understanding is correct.	Noted.
12	Section 4: Bidding Forms	Bid Security	In the bidding document, the prescribed format for Bid Security is not provided. Kindly provide the Bid Security format along with the applicable SWIFT code for issuance of the Bank Guarantee. Further, we understand that in case of submission of bid under a Joint Venture, the Bid Security may be submitted by any JV Partner. Kindly confirm.	Bid security form is attached.
13	Bidding Data Sheet		In the bidding document, it is mentioned that the bidder shall submit bid by mail. Kindly inform the email to which the bid has to be transmitted.	Refer tender documents.

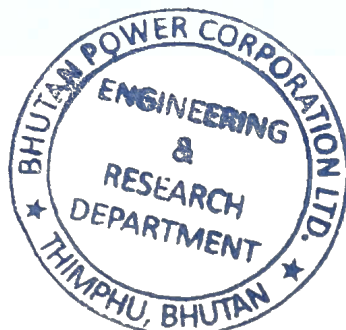
14	Bidding Data Sheet		Please clarify how will the physical copy of bid guarantee submitted. In this regard, kindly clarify whether any documents are required to be submitted in hard copy form. Further, if submission of hard copy documents is required, kindly confirm whether the bidder may submit the same within 7 days from the bid submission deadline.	The hard copy of the Bid Security shall be submitted to any BPC office prior to the bid opening.
15	Material Procurement and Vendor Management Plan		Manufacturing Authorization format is not available in the bidding document. Kindly provide the prescribed format required for submission along with the bid.	No standard format.
16	Material Procurement and Vendor Management Plan		Kindly provide the list of BPC-approved vendors/manufacturers to be considered for supply of materials/ equipment under this tender. Further, kindly confirm whether the bidder may also supply materials/equipment from any other reputed and qualified vendors/manufacturers	No change to the Tender Stipulation.
17	General		In case the bid is submitted under a Joint Venture, kindly confirm whether the complete bid forms and other related documents such as Integrity Pact, Technical Proposal, EHS Code of Conduct, Quality Assurance documents, Environmental and Social Safeguard documents, etc., if signed by the Partner having the Power of attorney issued on behalf of the JV, shall be considered acceptable for evaluation of the bid.	No change to the Tender Stipulation.
18	General	Payment Term	As per the bid document, it is mentioned that 10% Advance Payment of the Accepted Contract Amount and release of 10% retention amount from the Interim Payment Certificate shall be made to the bidder. We understand that: 80% of the supply payment shall be released against shipping documents. 80% of the Installation payment shall be released progressively against monthly certified bills. Kindly confirm if our understanding is correct.	Confirmed.
19	Price Schedule	Schedule-1	In bid document (Page no. 102) mentioned below seems to be incorrect:	Attached as annexure -II.
20	Price Schedule		For Price Evaluation, Kindly confirm whether Custom Duty and Taxes will be included or excluded.	No change to the Tender Stipulation.
21	Section 1: ITB Clause No.: 20, Bid Security/ Bid Securing Declaration	All from a reputable source from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section 4 (Bidding Forms) or another form acceptable to the Employer.	Kindly provide Bid Security Form, which is not available in Section 4: Bidding Forms. Also, please confirm if we can submit a Bank Guarantee in Indian Rupees equivalent to requirement as per tender documents issued in India. Is it acceptable or we need to arrange for a counter guarantee from a local Bhutanese bank?	No change to the Tender Stipulation.
22	Section 1: ITB 17.7 Bid Prices and Discounts	All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.	Please confirm which Taxes and duties are applicable in this contract. As per our understanding, this tender being ADB funded project, this project should be exempted of all local taxes and duties. Kindly Confirm.	No change to the Tender Stipulation.
23	ITB 23.1 BDS	Bid Submission	Extension of the bid submission	No change to the Tender Stipulation.
24	ITB 4	Eligible Bidders		The Bhutanese JV Partner shall have License Category -W4 (Power and Telecommunications).

Project : 132kV DC TRANSMISSION LINE**BHUTAN POWER CORPORATION LTD.****WIRE : PHASE CONDUCTOR****SAG TENSION CALCULATION**

Sheet 1

NAME OF THE CONDUCTOR :	ACSR "PANTHER"		<i>Phase Conductor</i>
AREA :	mm ²	261.5	
DIA :	mm	21	
WT OF CONDUCTOR :	Kg/m	0.974	
ULTIMATE TENSILE STRENGTH :	Kg	9144	
MODULUS OF ELASTICITY :	Kg/mm ²	8155	
MAX WORKING SPAN :	m	335	
MIN TEMPERATURE :	°C	0	
EVERY DAY TEMPERATURE :	°C	32	
MAX TEMPERATURE :	°C	75	
COEFF OF LINEAR EXPANSION :	/°C	1.78E-05	
INITIAL F.O.S OR SAG (m)			
TYPE 'F' FOR FOS :			
:	FOS	4.000	
:	SAG		
INITIAL TEMP :	°C	32	
INITIAL WIND PRESSURE :	Kg/m ²	176.9	
RADIAL ICE FORMATION :	mm	0	

	Wind Pressure (Kg/m ²)	Temperature (°C)	Ice Formation (mm)	Sag (m)	TENSION (Kg)	% of UTS	Span (m)
36%	63.68	0	0.00	6.29	3692.77	40.38	335.00
100%	176.90	32	0.00	9.91	5442.72	59.52	335.00
INI	0.00	32	0.00	5.98	2286.00	25.00	335.00
	0.00	0	0.00	4.79	2853.14	31.20	335.00
	0.00	75	0.00	7.63	1791.28	19.59	335.00



For Tendering Purpose Only

Project : 132kV DC TRANSMISSION LINE

BHUTAN POWER CORPORATION LTD.

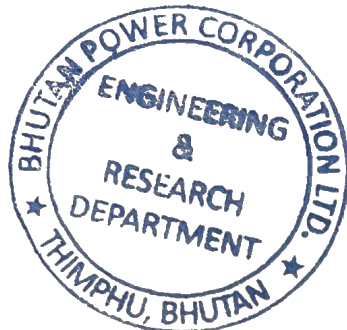
WIRE : PHASE CONDUCTOR

SAG TENSION CALCULATION

Sheet 2

NAME OF THE CONDUCTOR :	OPGW -24 core		<i>Earthwire</i> OPGW -24 core
AREA :	mm ²	74	
DIA :	mm	11.85	
WT OF CONDUCTOR :	Kg/m	0.426	
ULTIMATE TENSILE STRENGTH :	Kg	5600	
MODULUS OF ELASTICITY :	Kg/mm ²	12674	
MAX WORKING SPAN :	m	335	
MIN TEMPERATURE :	°C	0	
EVERY DAY TEMPERATURE :	°C	32	
MAX TEMPERATURE :	°C	53	
COEFF OF LINEAR EXPANSION :	/°C	1.43E-05	
INITIAL F.O.S OR SAG (m)			
TYPE 'F' FOR FOS :			
:	FOS		
:	SAG	1.667	
INITIAL TEMP :	°C	32	
INITIAL WIND PRESSURE :	Kg/m ²	220.04	
RADIAL ICE FORMATION :	mm	0	

	Wind Pressure (Kg/m ²)	Temperature (°C)	Ice Formation (mm)	Sag (m)	TENSION (Kg)	% of UTS	Span (m)
0.36	79.21	0	0.00	6.83	2118.67	37.83	335.00
1.00	220.04	32	0.00	11.05	3360.00	60.00	335.00
INI	0.00	32	0.00	4.97	1202.71	21.48	335.00
	0.00	0	0.00	4.10	1457.03	26.02	335.00
	0.00	53	0.00	5.60	1068.11	19.07	335.00



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Item No.	Description	Unit	Provisional Quantity	Unit Rate for Supply and Delivery			Total FAS Price (excluding GST/CD)	Provision for GST/CD			Total FAS Price in NU. (Including GST/CD)
				Ex-Work Price	FAS (excluding GST/CD)	FAS (including GST/CD)		GST %	CD%	Value (GST+ CD)	
				1.00	2.00	3.00		4=3+6x(3+7x2)	5=1x3	6.00	

Bid Security⁴ Bank Guarantee

[Bank's name, and address of issuing branch or office]⁵

Beneficiary:[Name and address of the Employer].....

Date:

Bid Security No.:

We have been informed that [name of the Bidder] (hereinafter called "the Bidder") has submitted to you its bid dated [please specify] (hereinafter called "the Bid") for the execution of [name of contract] under Invitation for Bids No. [please specify] ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we [name of bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [amount in words] [amount in figures] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letter of Bid;
or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the performance security, in accordance with the ITB, or (iii) fails or refuses to furnish a domestic preference security, if required.

This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.⁶

.....
[Authorized signature(s) and bank's seal (where appropriate)]

⁴ Delete this form if Bid-Securing Declaration is used in accordance with ITB 20.1 of the BDS.

⁵ All italicized text is for use in preparing this form and shall be deleted from the final document.

⁶ Or the employer may use "Uniform Rules for Demand Guarantees (URDG) ICC Publication No. 458" as appropriate.