



# NEPAL ELECTRICITY AUTHORITY

(Government of Nepal Undertaking)  
Transmission Directorate  
Grid Development Department

Kharipati, Bhaktapur  
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## Dordi Corridor 132 kV Transmission Line Project

Ref No: 073/74-25

Date: June 28, 2017

To,  
All Perspective Bidders,

**Subject:** Design, Supply, Construction, Testing and Commissioning of Kirtipur 132/11 kV Substation (ICB No: DCTL-073/74-02)

### Addendum No. 3

Dear Sir/ Madam,

This has the reference to the above captioned contract published on May 28, 2017; we hereby issue Addendum No. 3 in accordance with clause 8, pursuant to sub clause 8.1(Section 1 – Instruction to Bidders) of the Bidding Document.

You are requested to acknowledge the receipt of this Addendum No. 3.

Encloses: Addendum No. 3 (5 Page)

Sincerely Yours,

Ramesh Prasad Poudel  
Project Manager

**Nepal Electricity Authority**  
 (An Undertaking of Government of Nepal)  
**Transmission Directorate**  
**Grid Development Department**  
**Dordi Corridor 132 kV Transmission Line Project**

Design, Supply, Construction, Testing and Commissioning of Kirtipur 132/11 kV Substation  
 (ICB No: DCTL-073/74-02)

**Addendum No. 3**

In accordance with clause 8, pursuant to sub clause 8.1 (Section 1 – Instruction to Bidders) of the Bidding Document for the “Design, Supply, Construction, Testing and Commissioning of Kirtipur 132/11 kV Substation” (ICB No: DCTL-073/74-02), following amendments have been made in the bidding document.

S.No:	Reference Clause/Chapter no. /S.No. of bidding document	Clause/Chapter/Description as Existing	Clause/Chapter/Description as Amended
1	Page 5 of Chapter 1: Project Specific Requirements, clause 3.0 of Volume II	<p><b>3.0 Specific Exclusions</b></p> <p>The following items of work are specifically excluded from the scope of the specifications for all substations:</p> <p>(a) Employer’s quarters, site office, stores and substation Boundary wall along periphery of substation, security room and main gate at entry of substation.</p> <p>(b) Cutting and clearing of trees and bushes in yard</p>	Clause 3.0 of Chapter 1: Project Specific Requirements of Volume II of Bidding Document is deleted.
2	Page 9 of Chapter		<b>Add the following in second paragraph:</b>





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S.No:	Reference Clause/Chapter no. /S.No. of bidding document	Clause/Chapter/Description as Existing	Clause/Chapter/Description as Amended
	11: Power and Control Cables, clause 11.15 of Volume II		<p>“The XLPE insulated, EHV cable shall confirm to the requirements of IEC 60502-2 (applicable clauses only) for construction and IEC 60840/IEC 62067(as applicable) for testing. The terminating accessories shall conform to IEC 60840/IEC62067 (as applicable). Recommended current rating for cables shall conform to IEC 60059. The offered cables and its terminating accessories shall be compatible with each other.</p> <p>The cables shall have outer sheath of a material with an Oxygen Index of not less than 29 and a Temperature index of not less than 250°C.</p> <p>The main characteristics of 11 kV cable shall be as follows:</p> <p>Nominal System Voltage (rms): 11 kV            Highest System Voltage (rms) : 12 kV            Voltage grade of cable : 6/10 kV            Frequency : 50 Hz            Conductors : Multi stranded annealed copper</p>



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S.No:	Reference Clause/Chapter no. /S.No. of bidding document	Clause/Chapter/Description as Existing	Clause/Chapter/Description as Amended
			<p>Conductor Screen : Extruded semi-conducting                      Insulation : Cross-linked polyethylene (XLPE)                      Insulation Screen : Extruded semi-conducting + Copper tape                      Inner sheath: PVC                      Armour: hard drawn aluminium round wire                      Outer Sheath: PVC, black colour, FRLS. rodent protected                      Basic Impulse Level : 75 kV                      One minute power frequency withstand voltage: 28 kV                      Fire behavior: Flame retardant category according to IEC 60332                      The hard drawn aluminium wire for armour shall be of H4 grade, as per IS 8130 (having tensile strength above 150 N/mm<sup>2</sup>). The diameter of the aluminium wire shall be as per the table for the dimensions of the galvanized steel wire armour given in the relevant standard.</p>





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S.No:	Reference Clause/Chapter no. /S.No. of bidding document	Clause/Chapter/Description as Existing	Clause/Chapter/Description as Amended
3	Page 2 of Chapter 8: Battery and Battery Charger, clause 8.3.2 of Volume II	<b>In first paragraph:</b> The battery capacity shall not be less than 100 Ah	The conductor and metallic sheath shall be designed to meet the requirement of the system short circuit rating of 25KA for 3 sec for 11 kV". <b>First paragraph shall be replaced by:</b> The battery capacity shall not be less than 200 Ah
4	Page 4-8 of Section 4 – Bidding Forms	Functional Guarantee of the Proposed Facilities	Bidding Forms for Functional Guarantee of the Proposed Facilities is provided in <b>Annexure – 1</b> .



*Handwritten signature*

**Functional Guarantee of the Proposed Facilities****Form FUNC**

The Bidder shall copy in the left column of the table below, the identification of each functional guarantee required in the Specification and stated by the Employer in clause 1.3.4 of Section III. Evaluation and Qualification Criteria, Volume I and in the right column, provide the corresponding value for each functional guarantee of the proposed plant and equipment.

Required Functional Guarantee	Value of Functional Guarantee of the Proposed Plant and Equipment		
	No Load Loss ( KW)	Load Loss ( KW) at 75 Deg C	Auxiliary Loss ( KW) at 75 Deg C
(1) 132/11 kV, 10 MVA three phase power transformer			
(2) 11/0.4 kV, 250 kVA Station Transformer			

**Loss capitalization**

The guaranteed transformers/reactor losses will be capitalized as follows for evaluation purpose:

S.N.	Type of Losses	Capitalization Rate (US\$ per kW)	
		For Transformers	For Reactor
1	No load losses	4684	Not Applicable
2	Load losses	1180	1180
3	Auxiliary Losses	393	393

**Guaranteed values not reached.**

If the individual losses of a transformer/reactor as measured during test exceeds the values Guaranteed in the Bid, then for each kilowatt of losses in excess of the losses guaranteed, an amount at the rates of twice the rates specified above for no-load losses, load-losses and auxiliary Losses shall be deducted from the Contract Price of the successful Bidder.

**Performance Guarantee**

The performance figures quoted on Technical Data Sheet shall be guaranteed within the tolerances permitted by relevant standards listed under Part-II, Employer's Requirement, and shall become a part of the successful Bidder's Contract. In case of loss capitalization, no tolerance shall be permitted for the guaranteed value. The transformer/reactor will be rejected, if the measured no-load, load and auxiliary losses exceed the guaranteed value by over 15% provided that the total losses do not exceed 10% as specified.

