



**Millennium
Development
Authority**
Economic Growth and Poverty Reduction



Millennium Development Authority (MiDA)

ADDENDUM NO. 1 TO BIDDING DOCUMENT

**RE: HIGH-VOLTAGE DISTRIBUTION SYSTEM (HVDS) +
SECURITY LIGHTING WORK PACKAGES FOR MARKETS AND
ECONOMIC ENCLAVES (M+EEs)**

Bid Ref: 5420300/IFB/CB/05/19

In accordance with ITB Clause 9. of the Bidding Document for the above-mentioned Sub-Activity of MiDA, the following Amendment of the Bidding Document is being issued in the form of an Addendum No. 1.

Addendum No. 1: - Amendment to Sub-Sections of Section V. Works Requirements of the Bidding Document

This information will be sent in writing to all prospective Bidders that received this Bidding Document. This information is also available at MiDA website at www.mida.gov.gh.

Prospective Bidders who have yet to register their details with the MiDA Procurement Agent and are interested in submitting a Bid should request the Bidding Document by sending an e-mail, giving full contact details (full physical address, phone numbers and email address(es)) of the organization and relevant contact person(s) to the MiDA Procurement Agent at paghana@charleskendall.com. The Bidding Document, and any subsequent information, will be issued on receipt of complete information by the MiDA Procurement Agent.

Deadline for submission, Venue and Time for Bids Submission remain unchanged.

Chief Executive Officer
Millennium Development Authority
4th Floor Heritage Tower, 6th Avenue. Ridge West, Accra, Ghana.

Issued Date: 17th July 2019



ATTACHMENT TO ADDENDUM NO. 1

AMENDMENT TO SUB-SECTIONS OF SECTION V. WORKS REQUIREMENTS OF THE BIDDING DOCUMENT

The following Amendments to the applicable Sub-Sections have been made:

S/No

Sub-Section & Amendment

- (1) **3.0 Technical Specifications and Performance Requirements: High-voltage Distribution System**

Sub-section 3.1: Basis of Design Summary; Page 108: Last Bullet Point is amended.

This amendment relates to the length of the 12m wooden poles to be directly embedded in the ground.

On page 108 of the IFB, the paragraph “The HVDS will use the following design principles at all M&EEs’ has been revised to delete the following bullet point;

“All the poles to be used on the Project will be 12-meter wood poles with 1.8 meters directly embedded. The use of tall poles will increase the clearance from ground level, and the use of wood will decrease weight and facilitate handling of the poles. It is anticipated that many poles will be installed by hand. A crane may be used where clearance allows”.

The bullet has been replaced to include the following:

“All the poles to be used on the Project will be 12-meter wood poles with 2.0 meters directly embedded. The use of tall poles will increase the clearance from ground level, and the use of wood will decrease weight and facilitate handling of the poles. It is anticipated that many poles will be installed by hand. A crane may be used where clearance allows”.

- (2) **3.1 Construction Assembly Units**

Reference to Table 3-2. Equipment Description and Reference Manufacturer and Catalog Number, Pages 111-114:

A combination of Imperial and Metric units was used in this section of the IFB. This amendment has converted all the measurements to the metric system. Where the conversion has not been made by this amendment, the metric equivalent is permitted.

This amendment also modifies **Reference Manufacturer and Catalog Number** for the code **Item codes ae & af**, and the Description for *Item Code Uhd (page 114)* has been modified to read ‘**Cable Support**’ .

The entire Table 3.2 has been revised and provided as Revised Table 3.2 in the google link:

<https://drive.google.com/file/d/1Fky8SqXuC1yVAXIJTTiUHdjX3A8deCRA/view?usp=sharing> .

(3) **3.3 General Technical Requirements**

3.3.1 Detailed Materials List

3.3.2 Transformers

This sub-section is amended, and the amendment seeks to correct an error in the sub-heading title “**Transformer Losses**” in **Table 3-3. Pole-mounted Distribution Transformers, Page 115.**

The sub- heading title heading has been revised to read “**Transformer Losses Evaluation Factors**”.

(4) **3.3 General Technical Requirements**

Sub-section 3.3 General Technical Requirements is now revised in the applicable sections to **include** the following Specifications wood poles (E18), pole mounted distribution transformer (E21) and 11KV/33KV RMU (E24).

Carefully follow the instructions in the link to access these additional Specifications: <http://bit.do/AccessProjectBidDocs>

(5) **3.5 Technical Data Schedules, Page 126**

This amendment revises the Technical Data Schedules (Sheets).

Follow the instructions to access the Revised TDS at <http://bit.do/AccessProjectBidDocs>

(6) **5.0 Testing and Quality Assurance**

5.1 Inspections and Pre-commission Tests

5.1.6 Factory Acceptance Testing, Page 130

This section has been revised to introduce the following additional information at the end of paragraph 1 of the sub-section. This revision seeks to provide additional details on FATs required for wood poles.

“For items of equipment procured to IEC standards, FAT shall consist of repetition of the routine tests specified in the relevant IEC standards on a sample of the items being presented for delivery. The sample size shall be determined from standard statistical sampling techniques for a +/-10% error and a 95% confidence interval. Tests shall be conducted in the manufacturer’s laboratory using measuring equipment with current calibration records.

In the case of poles, which are specified to the ECG E18 standard, the sample size shall be computed as above, and the FAT shall consist of repeating the Quality Control inspections as specified in Appendix E of that standard on all the poles in the sample,

including examinations for physical defects, framing, moisture content, and borings for verification of penetration and retention. Analysis of retention shall be carried out in the manufacturer's laboratory."

The text of 5.1.6 Factory Acceptance Testing, *Page 131, Bullet Point 1* has been revised from 'Test Specifications' to 'Test Report'

(7) **6.0 Construction Overview and Guidance**

6.3 Assembly of Distribution Lines and Installation of Equipment

6.3.2 Excavations, paragraph 2: Page 133:

The paragraph has been revised to delete;

"For 12-meter poles, the pole depth shall be 1.8 meters. For pole excavations on sloping ground, depth shall be measured from the lower edge of the hole".

The paragraph has been revised to include the following:

"For 12-meter poles, the pole depth shall be 2.0 meters. For pole excavations on sloping ground, depth shall be measured from the lower edge of the hole".

(8) **6.3.6 Setting of Poles and Framed Structures, paragraph 3, Page 135:**

This amendment seeks to correct a typographical error.

The paragraph has been revised in part to delete;

".....over 50 cm....."

The paragraph has been corrected in part to include the following:

".....over 50 mm....."

(9) **6.3.7 Stays and Anchors; paragraph 2, line 1(Page 136):**

This amendment seeks to correct a typographical error.

The sentence in the paragraph is revised in part to delete;

"The eye of the anchor rod must not protrude more than 15 cm over the level terrain after the backfill has been compacted, but not more than 30 cm."

The sentence in the paragraph is revised in part to include the following:

"The eye of the anchor rod must protrude more than 15 cm over the level terrain after the backfill has been compacted, but not more than 30 cm."

(10) **6.9 Installation, paragraph 5 Page 140:**

This amendment seeks to revise the sentence as follows: ‘ground’ is deleted and replaced with ‘earth wire’.

Paragraph 5 has been revised in part to delete;

“All equipment shall be connected to the pole ground in at least two places using a loop of grounding conductor in accordance with the drawings....”.

Paragraph 5 is modified in part to include :

“All equipment shall be connected to the pole earth wire in at least two places using a loop of conductor in accordance with the drawings”.

(11) **8.0 Drawings page 143, 144, 146**

This amendment revises the HVDS Drawings with emphasis on changed Measurements in Imperial Units to Metric Units.

Follow the instructions in the link to access the Revised Drawings at:

<http://bit.do/AccessProjectBidDocs>

8.2.3 Link to Drawings, Page 146

Follow the instructions in the link to access the Revised Drawings at:

<http://bit.do/AccessProjectBidDocs>

(12) **9.0 Bill of Quantities, Page 147**

Generally, this amendment revises the BOQs to include the following:

(1) (Description of the following) Items in the BOQs for Security Lighting:

- LED Canopy light, Type D & G, 6500 lumen, 4000k, 53W - 6 Each.
- LED Wallpack, Type A & F, Type 3 Optics, 3500 lumen, 4000K, 29W – 29 Each.

(2) Bill for Decommissioning (retirement of obsolete equipment).

Carefully follow the instructions to access the Specification via the Google link

<http://bit.do/AccessProjectBidDocs>

(13) **9.2 Bidding, Bid Lots, and Customer Service Connections**

This amendment is to inform Bidders that a new sub-section 9.2.5 Decommissioning has been introduced as follows:

“9.2.5 Decommissioning

The Contractor would be required to remove and transport to designated locations, all electrical network installations and accessories including transformers, meters, decommissioned poles, network cables, and components to be made redundant by the new HVDS and Security Lighting installations in the M&EEs. The BOQ provides notional estimates of electrical network assets to be decommissioned at each M&EE, and grouped by their respective bid Lots”.