



FIJI ELECTRICITY AUTHORITY

BIDDING DOCUMENT

MR 39/2017

**PREFERRED SUPPLIER FOR CORONA AND
THERMOGRAPHIC INSPECTION CAMERA
AND ACCESSORIES**

Section 1. Instructions to Bidders

- 1. Scope of Bid** The Fiji Electricity Authority (hereinafter referred to as "the Employer"), wishes to receive bids for supply of Corona and Thermographic Inspection Camera and Accessories as specified in these bidding documents (hereinafter referred to as "Inspection Camera").
- 2. Eligible Bidders** This Invitation to Bid is open to bidders who have sound financial background and have previous experience.

Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer shall reasonably request.

Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent.
- 3. Eligible Materials, Equipment and Services** The Inspection Camera to be supplied under the Contract shall have their origin from reputable companies from various countries. The bidders may be required to provide evidence of the origin of the Inspection Camera.
- 4. Qualification of the Bidder** To be qualified for award of Contract, bidders shall submit proposals regarding work methods, scheduling and resourcing which shall be provided in sufficient detail to confirm the bidder's capability to fulfil the contract.
- 5. Cost of Bidding** The bidder shall bear all costs associated with the preparation and submission of its bid and the Employer will in no case be responsible or liable for those costs.
- 6. Sealing and Marking of Bids** The bidder shall seal the original copy of the technical proposal, the original copy of the price proposal and each copy of the technical proposal and each copy of the price proposal in separate envelopes clearly marking each one as: "ORIGINAL-PROPOSAL", and "COPY PROPOSAL", etc. as appropriate.

The bidder shall seal the original bids and each copy of the bids in an inner and an outer envelope, duly marking the envelopes as "ORIGINAL" and "COPY".

The inner and outer envelopes shall be addressed to the Employer at the following address:

Tender # MR 39/2017 – Preferred Supplier for Thermal Imaging and Corona Camera
The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji
- 7. Deadline for Submission of Bids** Bids must be received by the Employer at the address specified above no later than 04.00pm (Fiji Time) on Wednesday, 15th March, 2017.

The Employer may, at its discretion, extend the deadline for submission of bids by issuing an addendum, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadlines extended.

8. Late Bids

Any bid received by the Employer after the deadline for submission of bids prescribed will be rejected and returned unopened to the bidder.

9. Modification and Withdrawal of Bids

The bidder may modify or withdraw its bid after bid submission, provided that written notice of the modification or withdrawal is received by the Employer prior to the deadline for submission of bids.

The bidder's modification or withdrawal notice shall be prepared, sealed, marked and delivered, with the outer and inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL", as appropriate. A withdrawal notice may also be sent by fax but must be followed by a signed confirmation copy.

No bid may be modified by the bidder after the deadline for submission of bids.

10. Employer's Right to Accept any Bid and to Reject any or all Bids

The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action.

11. Notification of Award

Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder by fax/email, confirmed by registered letter, that its bid has been accepted. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") shall name the sum which the Employer will pay the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price").

The notification of award will constitute the formation of the Contract.

Upon the furnishing by the successful bidder of a performance security, the Employer will promptly notify the other bidders that their bids have been unsuccessful.

12. Signing of Contract Agreement

At the same time that he notifies the successful bidder that its bid has been accepted, the Employer will send the bidder the Form of Contract Agreement provided in the bidding documents, incorporating all agreements between the

parties.

Within 7 days of receipt of the Form of Agreement, the successful bidder shall sign the Form and return it to the Employer.

**13. Corrupt or
Fraudulent
Practices**

The Employer requires that the Contractor observe the highest standard of ethics during the procurement and execution of such contracts. In Pursuance of this policy, the Employer:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition;
- (b) The FEA will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

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Technical Specifications for Corona and Thermographic Inspection Camera

1. General Description

The preferred supplier is to supply the Fiji Electricity Authority with the Corona and Thermal Inspection Camera and Accessories on as per need basis, whilst maintaining the quantity specified in the table below in the FEA stores. The bidders proposal shall address all functional and performance requirements within the specification and shall include sufficient information and supporting documentation in order to determine compliance with this specification without further necessary inquiries. Also note that the required the camera should have both Corona and Thermographic inspection functions.

2. System Specifications

Note to bidders: Please submit a copy the table below with your products details (in the BIDDERS PRODUCT DETAILS column) in comparison to what is required by the employer.

		EMPLOYER REQUIREMENTS	BIDDERS PRODUCT DETAILS
ZOOM	Visible Camera Zoom	28x optical, 12x digital	
	UV Camera Zoom	1x optical, 8x digital	
	IR Camera Optical Zoom	1x optical, 8x digital	
FIELDS OF VIEW	0.5x Zoom	16°	
	1x Zoom	8°	
	2x Zoom	4°	
	4x Zoom	2°	
	UV & IR Channel Zoom	Digital to match visible FOV - up to 4x zoom	
	FOV with UV Overlay	All	
	Focus	Automatic or manual on visible & IR channels, UV slaved to visible/IR or independent manually	
	Minimum Focus Distance	UV 0.7 m, VIS 1.5 m, IR 2.3m	
SENSITIVITY	Ultraviolet	$2.05^{-18} \times 10 \text{ Watt/cm}^2$	
	Infrared (NEdT)	<50mK @ f1.0 (-25°C to +135°C) <62.5mK @ f1.25 (Standard lens)	
	Visible	0.4 lx (F1.35, 50 % IRE, ICR off), normal 0.01 lx (F1.35, 50 % IRE, ICR on), auto low light	
RESOLUTION	Ultraviolet	640 x 480 pixels	
	Infrared	640 x 512 pixels	
	Visible	768 x 576 pixels	
IMAGE ACQUISITION	Ultraviolet	Averaging & Integration	
	Infrared	Auto flat field correction (0.5s) Auto level and	

		span	
	Visible	Auto low light, manual back light compensation	
CAMERA I/O	USB	Auto connect USB 2.0	
	Ethernet	Video streaming & remote control	
	Composite Video	PAL & NTSC formats	
IMAGE & DATA STORAGE	Output / Saved Image Options	As displayed, Simplified, No info overlay	
	Video Format	AVI (H.264 compression)	
	Image Format	Overlaid channels saved as JPEG	
	Separately saved Visible channel	JPEG	
	UV channel	JPEG	
	IR channel	Radiometric JPEG	
	Meta-data contains	Camera settings, GPS location, range to object	
	Storage Media	SD card storage (no less than 64 GB)	
POWER	Battery	Rechargeable	
	Recharge Time	No more than 250 minutes	
	Operating Time	No Less than 90 minutes	
	Alternative Power Source	Car charger/ power cable (to use camera without batteries)	
PHYSICAL SPECIFICATIONS	Operating Temperature	-15 °C to 55 °C	
	Storage Temperature	-20 °C to 60 °C	
	Weight	No more than 2.5kg	
PROTECTION	Storage / Transport Case	Impact resistant hard case	
	Camera Body	Tested to IP 54	
	Physical Protection	Impact absorbent covers	
	Safety Standard	CE,IEC1010-1	

3. Other Requirements

Other Requirements	Bidder's Remarks
Supplier should also provide:	
Catalogues, relevant information on the offered equipment	
Calibration Certificate of instrument along with the traceability	
Standard International Guarantee /Warranty	

certificate	
Service center information.	
Quoted price should have a validity of 3 months	
Bidder to provide following information along with technical data in their technical bid: <ul style="list-style-type: none"> • Physical dimensions of the instrument. • Weight of the instrument. • List of the customers to whom they have supplied the quoted model. 	
Bidder must be able to provide back-up service/ repair and recalibration	
Bidder shall provide for hands-on training on the use of the equipment to FEA Technicians and Engineers on site	

4. General Information

Name and address of bidder:	
Contacts (mobile/telephone):	
Fax:	
Email:	
Sales Tax/Commercial Tax/CST nos./Tax Identification/Business License	

Note: separate sheets may be attached wherever necessary.

5. Relevant Standards

All bidders, shall cite relevant standards and submit applicable documents proving and substantiating the compliance of the products in their bids with the relevant standards.

All bidders, shall cite relevant standards and submit applicable documents proving and substantiating the compliance of the existing quality control measures implemented at the factory in the manufacturing of the products for which bids are to be submitted.

4. Operating Conditions

The Inspection Camera will be used to examine LV, MV and HV lines and infrastructure (ranging from 240V AC to 132000V AC at 50Hz) at tropical (fairly humid, rainy and hot) conditions with temperatures ranging from 0 to 50 Degrees Celsius.

The equipment shall be water resistant, dust resistant and deliver exceptional results in both day time as well as night time situated either indoors or outdoors.

The range of the distance effectively covered by the Inspection camera shall be up to 20 meters.

5. User Operation Manual

Complete overview and detail are to be provided for each function, configuration detail and onscreen option.

6. Accessories

The bidder shall state the recommended accessories that are supplied with the Inspection camera and also clearly state the prices of optional accessories and spare parts that may be considered for purchase.

7. Training

The bidder shall provide training consisting of both theoretical and practical skills at no cost to the Employer at the Employer's Kinoya Depot, Fiji Islands. The details of this training shall be provided and outlines clearly with the tender bid.

8. Warranty

The bidder is to specify the Warranty details and coverage period. All costs relative to the warranty coverage in terms of repair, transportation and freight costs shall be paid fully by the bidder. A minimum of 12months warranty shall be provided with the equipment and all accessories.

9. Bid Prices

All non-exempt duties, taxes and other levies payable by the Contractor under the Contract/Purchase Order, or for any other cause shall be included in the rates, prices and total Bid price submitted by the Bidder.

Unless otherwise specified, the unit rates and prices shall be quotes by the Bidder in Fijian Dollars (FJD).

10. Period of Validity of Goods

Unless otherwise specified, bids shall remain valid for a period of 90 days after the deadline for the receipt of Bids. A Bid valid for a shorter period shall be rejected by FEA as noncompliant. In exceptional circumstances, FEA shall may solicit the Bidders' consent to an extension of the period of validity. The request and the responses thereto shall be made in writing.

Tender Submission - Instruction to bidders

It is mandatory for Bidders to upload a copy of their bid in the **TENDER LINK** Electronic Tender Box no later than **4:00pm, on Wednesday, 15th March, 2017**.

To register your interest and tender a response, view 'Current Tenders' at:

<https://www.tenderlink.com/fea>

For further information contact The Secretary Tender Committee, by e-mail

TDelairewa@fea.com.fj

In additional, hard copies of the tender, one original and one copy must be deposited in the tender box located at the FEA Head Office, 2 Marlow Street, Suva, Fiji no later than **4:00pm on Wednesday, 15th March, 2017** - Addressed as

**Tender – MR 39/2017 – Preferred Supplier for Thermal Imaging and Corona Camera
The Secretary Tender Committee
Fiji Electricity Authority
Head Office
Suva
Fiji**

- **Hard copies of the Tender bid will also be accepted after the closing date and time provided a soft copy is uploaded in the e-Tender Box and it is dispatched before the closing date and time.**

Tenders received after **4:00pm** on the closing date of **Wednesday, 15th March, 2017**

- will not be considered.
- Lowest bid will not necessarily be accepted as successful bid.
- **It is the responsibility of the bidder to pay courier chargers and all other cost associated with the delivery of the hard copy of the Tender submission including any Duties/Taxes.**
- **Hard copies of the Tender submission via Post Box will not be considered.**