



Fiji Electricity Authority

Tender Document for Supply of Equipment- Infrared Camera (Tender #: MR-138/2016)

Tender Closing date: 30 November 2016

Invitation to Bid MR 138/2016

SUPPLY OF EQUIPMENT- INFRARED CAMERA FOR FIJI ELECTRICITY AUTHORITY

Fiji Electricity Authority (“FEA”) invites Bids from eligible, qualified and reputable companies for the Supply of Infrared Camera complete with Accessories.

Interested bidders, please address your queries or questions in writing at the address given below

Mr. Abdul Nasim,
Unit Leader Strategic Procurement, Inventories and Properties
Supply Chain Office,
2 Marlow Street, Private Mail Bag,
Suva
or email: Abduln@fea.com.fj

SECTION I - INSTRUCTIONS TO BIDDERS

Notes to Bidders: *This section provides detailed information necessary for Bidders to prepare their Bids, in accordance with the requirements specified by the FEA. It also provides information on Bid submission, opening, and evaluation, and on the award of contract*

1. Scope

1.1 The entity of the FEA specified above invites Bids for the Supply of Infrared Camera complete with Accessories as described in the Bidding Document.

2. Eligibility Of Bidders

2.1 This bidding is open to all eligible companies

2.2 FEA in its sole unfettered discretion, disqualify or otherwise determine ineligible any potential Bidder that the FEA believes is, has been or will be, whether directly or indirectly, engaged in criminal or any other unethical behavior, financially unsound, or otherwise unfit in the FEA's opinion to participate in the bidding exercise.

2.3 In its Bid, the Bidder shall indicate the origin of Good proposed.

2.3 A Bidder shall not be eligible to participate in this bidding or in the performance of the contract under consideration if such Bidder:

- Is bankrupt or being wound up, is having its affair administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of proceedings concerning those matters or is in any analogous situation arising from a similar procedure provided in national legislation or regulations.
- Has been subject of a judgment which has the force of judicator for fraud, corruption, involvement in a criminal organization or any other illegal activity detrimental to the financial interests of FEA.

- Is guilty of misrepresentation in supplying the information required as a condition of participation in this bidding exercise or fail to supply this information.
- Is subject to a conflict of interest.

3. Bid Prices

- 3.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total Bid Price of the offered goods.
- 3.2 The Bidder's separation of price components will be solely for the purpose of facilitating the comparison of Bids by FEA and will not in any way limit the FEA's right to contract on any of the terms offered.
- 3.3 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.

4. Bid Currency

- 4.1 Unless otherwise specified in Section II, the unit rates and Prices shall be quoted by the Bidder entirely in FJD.

5. Period Of Validity Of Goods

- 5.1 Unless otherwise specified in Section II, 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 non-compliant.
- 5.2 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.

SECTION II – TENDER SPECIFICATIONS

1. Failure to submit the required technical specifications will automatically result in the disqualification of the tender bid.
2. Infrared Camera complete with Accessories.

Specification		Bidders Remarks
Image Quality		
IFOV (spatial resolution)	0.8 mRad	
Image resolution (pixel)	640 x 480 (307,200 pixels)	
	1280 x 960 (1,228,800 pixels) (SuperResolution mode)	
Frame rate (at max. image resolution)	60 Hz	
SuperResolution & Dynamic SuperResolution (resolution enhancement)	Yes, MicroScan technology quadruples IR measurement pixels	
Subwindowing modes available	Option 1: 384 x 288 (120 fps) Option 2: 640 x 120 (240 fps)	
Field of View (FOV) w/standard 30mm lens	30.9° x 23.1°	
Thermal sensitivity (NETD)	≤ 0.03 °C at 30 °C target temp (30 mK)	
Spectral range	7.5 μm to 14 μm	
IR-Fusion Technology		
AutoBlend mode	Yes	
Viewing modes	Picture-in-picture, continuous blending, color alarms (above and below user defined temperatures)	
Focus System		
LaserSharp Auto Focus	Yes	
Auto focus	Yes	
Manual focus	Yes, with the touch of a finger for tighter views	
EverSharp multifocal recording	Yes, Multifocal recording captures images from different focal distances and combines them into one image displaying each object	

	sharply for the best image quality	
Temperature Measurement		
Range	-40 °C to +1200 °C (-40 °F to 2192 °F)	
Accuracy	± 1.5 °C or ± 1.5 %	
Correction functions	LDC – Laser rangefinder based distance correction, emissivity (manual or material table) Transmissivity, ambient temperature, humidity (option)	
Data Storage and Image Capture		
Image/video storage	SDHC memory card	
Interfaces for image/data transfer	Supported in camera data ports: Image transfer: SD card, USB 2.0, video output DVI-D (HDMI)	
General Specifications		
Laser pointer	Yes, laser class: 2	
Laser distance meter	Accuracy: ± 1.5 mm Range: 70 m (230 ft) Wavelength: 635 nm (red) Laser class: 2	
Display	Extra-large 5.6" color TFT display, 1280 × 800 pixel resolution, Suitable for daylight operation	
Geo-localization	Built-in GPS for geo-referencing	
Digital visible light camera	Up to 8 megapixel resolution for image and video recording	
Digital zoom	Up to 32x digital zoom	
Text annotation	Yes	
Voice annotation	Yes	
Audio	Integrated microphone and loudspeaker for voice annotations	
A/D conversion	16 bit	
Power supply	External: 12 VDC ... 24 VDC Battery: Standard Li-Ion video camera battery	
Replaceable Smart Batteries with LED level indicator	Two	
Operating temperature	-25 °C to +55 °C (-13 °F to 131 °F)	
Storing temperature	-40 °C to +70 °C (-40 °F to 158 °F)	
Humidity	Relative humidity 10 % to 95 %, non-condensing	

Shock	Operational: 25G, IEC 68-2-29	
Vibration	Operational: 2G, IEC 68-2-6	
Protection class	IP54	
Ergonomics	Camcorder w/ handle	
Viewfinder	Tilt-able LCoS color viewfinder display, 800 × 600 pixel resolution	
Dimensions (with standard 1.0/30 mm lens)	Maximum of 210 mm × 125 mm × 155 mm (8.25 in x 4.9 in x 6.1 in)	
Weight (with standard 1.0/30 mm lens)	Maximum of 2 kg	
Measurement functions (selection)	Multiple measurement spots & Regions of Interest (ROIs), hot/cold spot detection, isotherms, profiles, differences	
Automatic functions (selection)	Focus, image, level, range, NUC, lens recognition, image optimization, alarm sequence	
Image Viewing Software	Yes	
Supported language	English	
Warranty	Minimum of 2 years	
Accessories		
Two rechargeable batteries		
Battery charger and adapter		
AC adapter		
SD Card Reader		
Protective LENS Cap		
Hand and neck straps		
Carrying case		
Warranty card and safety instructions		
Calibration certificate		
Printed manual in English		
CD with product manuals in English and Software for Camera		

Other requirements	Bidders Remarks
Supplier should also provide:	
1. Calibration Certificate of instrument along with the traceability	
2. Standard International Guarantee /Warranty certificate	
3. Service center information.	
4. Quoted price should have a validity of 3 months	
5. 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. 	
6. Bidder must be able to provide back-up service/ repair and recalibration	
7. Bidder shall provide for hands-on training on the use of the equipment to FEA Technicians and Engineers on site	

3. Total Bid

Equipment	Quantity	Total Price VIP (\$) FJD
Infrared Camera complete with Accessories	2	
Total		

NOTE: All Prices Should be in FJD.

4. General Information

1	Name and Address of the Bidder:	
2	Contacts:	
3	Telephones:	
4	Fax:	
5	E-Mail:	
6	Mobile No:	
7	Name of Chief Executive Office and Telephone No:	
8	Sales Tax/Commercial Tax/CST nos.	
9	Service Tax No.	
10	Income Tax No.	

Note: Separate sheets may be attached wherever necessary.

Signature of the Bidder

With stamp and date

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 07th December, 2016.**

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, 07th December, 2016** Addressed as

Tender – MR 138/2016 – Supply of Equipment – Infrared 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 07th December, 2016.**

- 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.**