**Request for Quotation**

**(RFQ)**

**Supply of Equipment for the work of accident investigation commissions and equipping facilities for safety training for Srbijavoz**

Project Title: **Serbia** **Railway Sector Modernization Project (SRSM)**

Source of Funding: **IBRD 9221 YF and CRS 1015 02 D**

Contract Ref: **SER-SRSM-RFQ-G-24-74-2**

Contract Name: **Supply of Equipment for the work of accident investigation commissions and equipping facilities for safety training for Srbijavoz**

Date: **October 28, 2024**

Dear Sirs,

1. You are invited to submit your price quotation for:

**Supply of Equipment for the work of accident investigation commissions and equipping facilities for safety training for Srbijavoz:**

|  |  |  |
| --- | --- | --- |
| **Item No.** | **Description of Goods** | **Quantity (pcs)** |
| 1. | Battery Led Lamps | 10 |
| 2. | Non-contact Temperature Gauge | 6 |
| 3. | Camera with Lens | 1 |
| 4. | Audio preamplifier | 4 |
| 5. | Audio Amplifier | 4 |
| 6. | Overhead Speaker | 8 |
| 7. | Wireless Head Microphone | 4 |
| 8. | LCD Display | 6 |
| 9. | Projector | 12 |
| 10. | Ceiling Mount for Projector | 4 |
| 11. | Electric Projection Screen | 4 |
| 12. | USB Video Conferencing System | 6 |
| 13. | Extension Conference Speakerphone for USB Video Conference System | 6 |
| 14. | Projection Screen Tripod | 8 |

*Detailed information on description, specifications and required quantities are attached in the Annex 1.*

1. You must quote for all the items under this Invitation. Price quotations will be evaluated for all the items together and contract awarded to the firm offering **the lowest evaluated total cost of all the items**.

3. Your price quotation in the form attached may be submitted electronically at the email address [dejan.jeremic@mfin.gov.rs](mailto:dejan.jeremic@mfin.gov.rs), Cc: [ljiljana.dzuver@mfin.gov.rs, larisa.puzovic@mgsi.gov.rs](mailto:ljiljana.dzuver@mfin.gov.rs,%20larisa.puzovic@mgsi.gov.rs) and shall consist of:

* + Form of Quotation - **filled in and signed** (in PDF format)
  + Terms and Conditions of Supply - **filled in and signed** (in PDF format)
  + Technical Specification - **filled in and signed** (in PDF and word format)

4. The deadline for receipt of your quotation (s) by the Purchaser at the email address indicated in Paragraph 3 is: **November 11, 2024, until 12.00 hours, noon, local time.**

5. **Your quotation should be accompanied by adequate technical documentation and catalogue(s) and other printed material or pertinent information for each item quoted, including names and addresses of firms providing service facilities in Serbia.**

6. Your quotation(s) should be submitted as per the following instructions and in accordance with the attached Contract. The attached Terms and Conditions of Supply is an integral part of the Contract.

(i) PRICES: The prices should be quoted in RSD (Serbian Dinar), for the Total Cost at final destination “Tehničko putnička stanica (TPS) Zemun”, Zemun, Beograd (hereinafter: final destination), which includes all taxes, VAT[[1]](#footnote-1), customs, duties, inland transportation and insurance, loading and unloading and also equipment installation.

(ii) EVALUATION OF QUOTATIONS: Offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of the total price at the final destination as per paragraph 2 above.

In evaluating the quotations, the Purchaser will determine for each bid the evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows:

(a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern;

(b) where is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern;

(c) if a Supplier refuses to accept the correction, his quotation will be rejected.

(iii) AWARD OF CONTRACT: The award will be made to the bidder offering the lowest substantially evaluated responsive quotation and that meets the required qualifying criteria and technical and financial capabilities. The successful bidder will sign a Contract as per attached form of contract and terms and conditions of supply.

(iv) VALIDITY OF THE OFFER: Your quotation(s) should be valid for a period of forty-five (45) days from the deadline for receipt of quotation(s) indicated in Paragraph 4 of this Request for Quotation.

7. Further information can be obtained from address below:

Dejan Jeremić

CFU Procurement Specialist

Ministry of Finance

Central Fiduciary Unit

Balkanska 53

11000 Belgrade

Republic of Serbia

Tel. 381 11 765 2565 E-mail: [dejan.jeremic@mfin.gov.rs](mailto:dejan.jeremic@mfin.gov.rs)

**8. Inspections and Audits**

8.1 The Supplier shall carry out all instructions of the Purchaser which comply with the applicable laws where the destination is located.

8.2 The Supplier shall permit, and shall cause its Subcontractors and consultants to permit, the World Bank (Bank) and/or persons appointed by the Bank to inspect the Supplier’s offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier’s and its Subcontractors and consultants’ attention is drawn to Clause 5 Fraud and Corruption of the Form of Contract, which provides, inter alia, that acts intended to materially impede the exercise of the Bank’s inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank’s prevailing sanctions procedures).

9. Please Confirm by E-mail the receipt of this invitation and whether or not you will submit the price quotation(s).

Sincerely,

Dejan Jeremić

CFU Procurement Specialist **FORM OF CONTRACT**

THIS AGREEMENT number **SER-SRSM-RFQ-G-24-74-2** made on \_\_\_\_\_\_\_\_\_ 2024, between the Ministry of Construction, Transport and Infrastructure (MCTI), having its principal place of business at Nemanjina 22-26, 11000 Belgrade, Republic of Serbia (hereinafter called “the Purchaser”) on the one part and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ having its principal place of business at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(hereinafter called “the Supplier”) on the other part.

WHEREAS the Purchaser has invited quotation for **Supply of Equipment for the work of accident investigation commissions and equipping facilities for safety training for Srbijavoz** to be supplied by Supplier, viz. Contract Ref No **SER-SRSM-RFQ-G-24-74-2** (hereinafter called “Contract”) and has accepted the Bid by the Supplier for the supply of goods under Contract at the sum of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) exclusive of VAT hereinafter called “the Contract Price”.

Delivery of goods and non-consulting services under SRSM Project, Loan No. 9221YF/CFACRS 1015 02 D, is free from VAT as per Official Gazette of Republic of Serbia, International Contracts, no. 13/2021, dated May 10, 2021.

The Contract will be effective from the date of signing and will last until the finalization of the delivery upon Purchaser request, as specified in Terms and Conditions of supply.

NOW THIS AGREEMENT witnesses as follows:

1. The following documents shall be deemed to form and be read and construed as part of this agreement:
2. **Form of Quotation; Term and Conditions of Supply, Technical Specification.**
3. **Addendum (if applicable).**
4. Taking into account payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby concludes an Agreement with the Purchaser to execute and complete the supply of Contract and remedy any defects therein in conformity with the provisions of Contract.
5. The goods that are to be procured under this contract are for the needs of ***JSC Srbijavoz (hereinafter: End Recipient)*** and respective payments will be made by the Purchaser (the MoCTI) from the Serbia Railway Sector Modernization Project (SRSM) funds.
6. The Purchaser hereby covenants to pay in consideration of the goods supply and installation and acceptance of Contract and remedying of defects therein, the Contract Price in accordance with Payment Conditions prescribed by Contract.
7. **Termination**

5.1 Termination for Default

### The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

#### if the Supplier fails to deliver any or all of the Goods and Services within the period specified in the Contract, or within any extension thereof granted.

#### if the Supplier fails to perform any other obligation under the Contract; or

#### if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in Clause 6 below, in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

5.2 Termination for Insolvency.

### The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

5.3 Termination for Convenience.

### The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser’s convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

### The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier’s receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

#### to have any portion completed and delivered at the Contract terms and prices; and/or

* + - 1. to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier

1. **Fraud and Corruption**

If the Purchaser determines that the Supplier and/or any of its personnel, or its agents, or its Subcontractors, consultants, service providers, suppliers and/or their employees has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices (as defined in the prevailing Bank’s sanctions procedures), in competing for or in executing the Contract, then the Purchaser may, after giving 14 days’ notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 4 shall apply as if such expulsion had been made under Sub-Clause 4.1.

1. **Inspections and Audits**

7.1 The Supplier shall carry out all instructions of the Purchaser which comply with the applicable laws where the destination is located

The Supplier shall permit, and shall cause its Subcontractors and consultants to permit, the Bank and/or persons appointed by the Bank to inspect the Supplier’s offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier’s and its Subcontractors and consultants’ attention is drawn to Clause 6 Fraud and Corruption, which provides, inter alia, that acts intended to materially impede the exercise of the Bank’s inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank’s prevailing sanctions procedures).

|  |  |
| --- | --- |
| **Signature and seal of the Purchaser:**  FOR AND BEHALF OF  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Goran Vesić  Minister | **Signature and seal of the Supplier:**  FOR AND BEHALF OF  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name of Authorized Representative |

**FORM OF QUOTATION**

(Date *insert*)

To:

Ministry of Construction, Transport and Infrastructure

Nemanjina 22-26

11000 Belgrade

Republic of Serbia

We offer to execute the **Supply of Equipment for the work of accident investigation commissions and equipping facilities for safety training for Srbijavoz,** Ref No: **SER-SRSM-RFQ-G-24-74-2,** in accordance with the Conditions of Contract accompanying this Quotation for the Contract Price of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (amount in words and numbers) (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) RSD exclusive of VAT. We propose to complete the delivery, psychical installation and putting into operation of goods described in the Contract within a period of \_\_\_\_\_\_ calendar days from the Date of Signing of the Contract, but no more than 60 days.

This Quotation and your written acceptance will constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Quotation you receive.

We hereby confirm that this Quotation complies with the Validity of the Quotation required by the proposal documents.

Authorized Signature: *insert*

Name and Title of Signatory *insert*

Name of Supplier: *insert*

Address: *insert*

Phone Number: *insert*

Fax Number: i*nsert*

**Terms and Conditions of Supply**

Project Title: **Serbia Railway Sector Modernization Project (SRSM)**

Purchaser: **Ministry of Construction, Transport and Infrastructure**

Contract Ref No: **SER-SRSM-RFQ-G-24-74-2**

1. Prices and Schedules for Supply

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item No.** | **Description of Goods** | **Qty (pcs)** | **Net Unit Price (RSD) at final destination (exclusive of VAT)** | **Total price per line (RSD) at final destination (exclusive of VAT)** | **Total VAT per line**  **(RSD)** | **Total Price**  **(RSD)**  **at final destination (includes all taxes, VAT, customs, duties, inland transportation and insurance)** | **Delivery Schedule from contract signature date**  *(insert days)* |
| **1** | **2** | **3** | **4** | **5 (3x4)** | **6** | **7 (5+6)** | **8** |
|  | | | | | | | |
| 1. | Battery Led Lamps | 10 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 2. | Non-contact Temperature Gauge | 6 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 3. | Camera with Lens | 1 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 4. | Audio preamplifier | 4 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 5. | Audio Amplifier | 4 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 6. | Overhead Speaker | 8 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 7. | Wireless Head Microphone | 4 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 8. | LCD Display | 6 | *insert* | *insert* | *insert* | *insert* | *Insert* |
| 9. | Projector | 12 | *insert* | *insert* | *insert* | *insert* | *insert* |
| 10. | Ceiling Mount for Projector | 4 | *insert* | *insert* | *insert* | *insert* | *insert* |
| 11. | Electric Projection Screen | 4 | *insert* | *insert* | *insert* | *insert* | *insert* |
| 12. | USB Video Conferencing System | 6 | *insert* | *insert* | *insert* | *insert* | *insert* |
| 13. | Extension Conference Speakerphone for USB Video Conference System | 6 | *insert* | *insert* | *insert* | *insert* | *insert* |
| 14. | Projection Screen Tripod | 8 | *insert* | *insert* | *insert* | *insert* | *insert* |
|  | **TOTAL AMOUNT (RSD)** | | | *insert* | *insert* | *insert* |  |

Note: In case of discrepancy between unit price and total derived from unit price, the unit price shall prevail.

1. Fixed Price: The prices indicated above are firm and fixed and not subject to any adjustment during contract performance.
2. The Purchaser reserves the right at the time of contract finalization to increase or decrease by up to 15% the quantity of goods and services originally specified without any change in unit prices as well as other terms and conditions.
3. Delivery Schedule: The delivery, psychical installation and putting into operation should be completed as per above schedulebut **not exceeding 60 calendar** days from contract signature, according to the following dynamics:

* Delivery within 50 calendar days
* Installation and putting into operation within 60 calendar days.

The MoCTI/PIU and Srbijavoz commission will verify the receipt and installation of equipment, as well as putting into operation. The Commission will draw up a Record stating that the equipment has been received and installed in accordance with the Contract.

Items 1-3 and 14 should be delivered at following location: TPS Zemun. For items 4-13 delivery includes psychical installation and putting into operation at following locations: TPS Zemun.

1. Applicable Law:The Contract shall be interpreted in accordance with the laws of the Republic of Serbia.
2. Resolution of Disputes:The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute between them under or in connection with the Contract. In the case of a dispute between the Purchaser and the Supplier, the dispute shall be settled in accordance with the country procedures.
3. Payment for your invoice will be made as follows: 100% of contract amount within 45 days on acceptance of the goods and issuing of Acceptance Certificate for the respective deliveries of the goods by the Ministry of Construction, Transport and Infrastructure from the Serbia Railway Sector Modernization Project (SRSM) funds.
4. Warranty: Goods offered should be covered by manufacturer’s warranty for the period stated in technical specification from the date of delivery to the Purchaser. Please specify warranty period and terms in detail.
5. Packaging and Marking Instructions: The Supplier shall provide standard packing of the Goods as required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.
6. Defects: All defects will be corrected by the Supplier without any cost to the Purchaser within 30 days from the date of notice by Purchaser. Name and address of service facility which the defects are to be corrected by the supplier within the warranty period:

**Address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *INSERT* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

11. Force-Majeure:The supplier shall not be liable for penalties or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force-Majeure.

For purposes of this clause, “Force-Majeure” means an events beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but not restricted to, act of Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force-Majeure situation arises, the Supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by Force-Majeure event.

12. Required Technical Specifications

(i) General Description

(ii) Specific technical details and standards

(iii) Performance Parameters

Supplier confirms compliance with above specifications {**In case of deviations supplier to list all such deviations**}.

NAME OF SUPPLIER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Authorized Signature and Stamp\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Annex 1***

***Technical Specification***

***(Filled Annex 1 TO BE INCLUDED IN THE QUOTATION)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type** | **Quantity** | **Description** | **Minimal Technical requirements** | **Offered (Bidder shall comment in details each description and insert manufacture and model name)** |
| **1. Battery Led Lamps** | **10** | **Weight with batteries** | max 800 g |  |
| **Lumens** | min 500 lm |  |
| **Working time** | min 15 h |  |
| **Length** | max 240 mm |  |
| **Beam range** | min 450 m |  |
| **Number of light levels** | min 3 |  |
| **IP standard** | min IPX4 |  |
| **Fall endurance test** | min 1m |  |
|  |
| **Material** | PC, ABS plastic, POM |  |
| **Warranty** | 36 months |  |
| **Additional Technical Characteristic** | Waterproof (minimum IP54) and shockproof, At least 3 levels of light: spotlight, ambient light, combined light, High-performance Cree LED light and more mid-power LEDs, to have the ability to adjust the lighting area, Must have a removable carrying strap, Charging cable and LED charging indicator |  |
| **Warranty** | 36 months |  |
| **2. Non-contact Temperature Gauge** | **6** | **Screen** | Large, bright LCD screen |  |
| **IR measuring range** | 20 ° C to 650 ° C; resolution 0.1 ° C |  |
| **Measuring beam** | 12:1 | , |
| **Adjustable emissivity** | from 0.10 to 1.00 |  |
| **Accuracy** | ± 1.0% at + 1 ° C reading |  |
| **Additional Technical Characteristic** | Dual laser points for precise positioning, MIN / MAX / DIF / AVG recording function, Adjustable HI / LOW alarm with visual warning, Water protection, waterproof (IP65), Lock function for continuous temperature measurement, Automatic shutdown |  |
| **Warranty** | 36 months |  |
| **3. Camera with Lens s** | **1** | **Image Sensor** | Type: CMOS sensor size 35.9 x 24.0 mm  Effective pixels: Approximately 26.2 megapixels  Total number of pixels: Approximately 27.1 megapixels  Image format: 3:2  Low pass filter: Built-in/fixed with fluorite coating  Sensor Cleaning: EOS integrated cleaning system  Color filter type: Primary color filter |  |
| **Image Processor** | Type: DIGIC 7 |  |
| **Lens** | Lens mount: EF (excludes EF-S, EF-M lenses)  Focal length: Equivalent to 1.0x the focal length of the lens |  |
| **Focus** | Type: TTL-CT-SIR with dedicated CMOS sensor  Auto focus / point system: 11 points (f/5.6 cross-type in center, high sensitivity at f/2.8)  Auto focus range: EV -3 – 18 (at 23°C and ISO100)  Auto focus modes: AI Focus  One Shot: AI Servo  Auto focus point selection: Automatic selection  Manual selection: AF points can be selected separately for vertical and horizontal shooting  Display of the selected autofocus point  It is displayed in the optical viewfinder, on the status LCD screen, and on the quick control screen |  |
| **Predictable auto focus** | Auto focus lock  Locks after pressing the shutter button halfway in One Shot AF mode or when the AF-ON button is pressed  Auto focus assist beam  It is emitted by the optional Speedlite flash  Manual focus  Adjusts on the lens |  |
| **Focusing with multiple test shots** | AF Microadjustment  C.Fn II-9  +/- 20 steps (wide and telephoto zoom setting)  Adjust all lenses by the same amount  Individual adjustment of up to 40 lenses  Saving settings for each lens by serial number |  |
| **Exposure Control** | Modes of measurement  Full-aperture TTL metering using dual-layer 63-zone SPC  (1) Metering with estimation (associated with each AF point)  (2) Partial metering (approx. 8% of optical viewfinder at center)  (3) Spot metering (approx. 3.5% of optical viewfinder at center)  (4) Average measurement centered  Measurement range  EV 1 – 20 (at 23°C with 50mm f/1.4 lens and ISO 100)  Automatic exposure lock  Auto: Works in 1-shot AF mode with estimated metering, which locks when focus is achieved.  Manual: Using the AE lock button in creative zone modes.  Exposure compensation  +/-5 EV in steps of 1/3 or 1/2 (can be combined with AEB).  AEB  2, 3, 5 or 7 shots +/-3 EV in 1/3 or 1/2 steps  ISO Sensitivity\*  Auto (100-25600), 100-25600 (1/3 step or full step)  ISO can be increased to L: 50, H1: 51,200, H2: 102,400  During video recording: Auto (100-12,800), 100-12,800 (1/3 step or full step) ISO value can be expanded to H: 25,600 |  |
| **Shutter** | Type: Electronically-controlled focal-plane shutter  Speed: 30-1/4000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode) |  |
| **White Balance** | Type: Automatic determination of the white balance using the sensor  Settings: AWB (Ambeince priority/White priority), Daylight, Shade, Cloudy, Tungsten, White Fluorescent light, Flash, Custom, Colour Temperature Setting (Approx. 2500 K - 10000 K)  White balance compensation:  1. Blue/Amber +/-9  2. Magenta/ Green +/-9.  Custom White Balance  Yes, it is possible to register one setting |  |
| **Optical Viewfinder** | Type: Pentaprism  Coverage: (vertical/horizontal) Approx. 98 %  Magnification: Approximately  0.71x[9](https://www.canon.co.uk/cameras/eos-6d-mark-ii/specifications/#footnote-9)  Eye point: Approx. 21mm (from center of lens)  Diopter correction: '-3 to +1 m-1 (diopter)  Focus screen: Fixed (Transmissive LCD screen)  The mirror: Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF600mm f/4 or shorter)  Information about the optical viewfinder  AF information: AF points, focus confirmation, AF area selection mode, AF mode  Exposure information: Exposure mode, Shutter speed, aperture value, ISO speed, AE lock, exposure level/compensation, Metering mode, spot metering circle, exposure warning, AEB..  Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light..  Image information: Card information, maximum burst (2 digit display), Highlight tone priority (D+).  Battery check: composition information  Electronic level display  Warning symbol: displayed if any of the following items are set: monochrome, balance correction  white, extended ISO sensitivity or spot metering.  Depth of field overview: Yes, with a depth of field preview button  Eyepiece shutter: On the belt |  |
| **LCD Monitor** | Type: Touch screen Vari angle 7.7cm (3.0") 3:2 Clear View II TFT, approx. 1040K dots  Coverage: approximately 100%  Viewing Angle (Horizontally/Vertically): Approximately 170°  Coating: Anti smudge  Brightness Adjustment: Adjustable to one of seven levels  Display Options:  (1) Quick Control Screen  (2) Camera settings  (3) Electronic level |  |
| **VIDEO** | Modes: Scene Intelligent Auto, Creative Auto, Special Scene (Portrait, Group Photo, Landscape, Sports, Kids, Panning10, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom (C1/C2)  Picture Styles: Auto, Standard, Portrait,  Color Space: sRGB and Adobe RGB  Image Processing:  Highlight Tone Priority  Auto Lighting Optimizer (4 settings)  Long exposure noise reduction  High ISO speed noise reduction (4 settings + Multi Shot Noise Reduction) Auto Correction of Lens Peripheral illumination, Distortion correction, Chromatic aberration correction and Diffraction correction Multi-exposure  HDR Mode  RAW image processing - during image Playback only  Resize to M or S1, S2  Drive modes  Single, Continuous L, Continuous H, Self timer (2s + Remote, 10s + Remote, Continuous), Silent single shooting, Silent continuous shooting  Max. Approx. 6.5 fps. (speed maintained for up to 150 images in JPEG, 21 images in RAW) |  |
| **Live View Mode** | Type: Electronic viewfinder with image sensor  Coverage: Approximately 100% (horizontal and vertical)  Frame Rate: 29.97 fps  Focusing: Manual Focus (Magnify the image 5x or 10x at any point on screen)  Autofocus: Dual Pixel CMOS AF14, Tracking sensitivity (-3 to +3) and Movie Servo AF Speed (-7 to +2)  Metering  Real-time evaluative metering with image sensor  Active metering time can be changed  Display Options  Grid overlay (x3), Histogram, Aspect ratios, Electronic Level |  |
| **File Type** | Still Image Type: JPEG: Fine, Normal (Exif 2.30 [Exif Print] compliant) / Design rule for Camera File system (2.0),RAW: RAW, M-RAW, S-RAW (14bit, Canon original RAW 2nd edition),  Digital Print Order Format [DPOF] Version 1.1 compliant  RAW+JPEG simultaneous recording  Yes, any combination of RAW + JPEG, M-RAW + JPEG, S-RAW + JPEG possible.  Image Size  JPEG 3:2: (L) 6240 x 4160, (M) 4160 x 2768, (S1) 3120 x 2080 (S2) 2400 x 1600  JPEG 4:3: (L) 5536 x 4160, (M) 3680 x 2768, (S1) 2768 x 2080, (S2) 2112 x 1600  JPEG 16:9: (L) 6240 x 3504, (M) 4160 x 2336, (S1) 3120 x 1752, (S2) 2400 x 1344  JPEG 1:1: (L) 4160 x 4160, (M) 2768 x 2768, (S1) 2080 x 2080, (S2) 1600 x 1600  RAW: (RAW) 6240 x 4160, (M-RAW) 4680 x 3120, (S-RAW) 3120 x 2080  Movie Type  MP4:Movie: MPEG4 AVC / H.264 (Video: H.264 inter frame, Audio: AAC, recording level can be manually adjusted by user)  MOV:Motion JPEG (4K 29.97/25.00, time-lapse movies only)ALL-I (FHD 29.97/25.00, time-lapse movies only)  Movie Size  1920 x 1080 (59.94, 50, 29.97, 25, 23.976 fps) IPB Standard or Light  1280 x 720 (59.94, 50, 29.97, 25 fps) IPB Standard or Light  HDR movie15:  1920 x 1080 (59.94, 50, 29.97, 25, 23.976 fps) IPB (Standard, Light)  Time-lapse movie:  3840 x 2160 ( 29.97, 25 fps) Motion JPEG  1920 x 1080 ( 29.97, 25 fps) ALL-I Movie Length  Max duration 29min 59sec, Max file size 4GB (If file size exceeds 4GB a new file will be created automatically except in Timelapse Movie mode) |  |
| **Sound** | Folders  New folders can be manually created and selected  File numbering  (1) Consecutive numbering  (2) Auto reset  (3) Manual reset |  |
| **Other** | Custom features  28 Custom Functions  Metadata Tag  User copyright information (can be set in camera)  Image rating (0-5 stars)  GPS coordinates: Latitude, Longitude, Elevation, Coordinated Universal Time (UTC), Satellite signal acquisition status  LCD panel / lighting  Yes  Waterproof / dustproof  Yes  Sound memory  No  Intelligent orientation sensor  Yes  Playback zoom  1.5x–10x  Display formats  (1) Single image with information (2 levels)  (2) Single image  (3) 4 image index  (4) 9 image index  (5) 36 image index  (6) 100 image index  (7) Jump Display  (8) Movie/edit  Slide show  Playback time: 1/2/3/5/10/20 seconds  Repeat: On/Off  Background music: On/Off  Transition effect: Off, Slide in 1, Slide in 2, Fade 1, Fade 2, Fade 3  Histogram  Brightness: yes  RGB: yes  Highlight Alert  Yes  Image deletion/Protection  Delete: Single image, All images in folder, Checkmarked images, unprotected images  Protection: Erase protection of one image at a time |  |
| **Data Verification** | Menu categories:  (1) Shooting menu (x5)  (2) Playback menu (x3)  (3) Setup menu (x5)  (4) Custom Functions menu  (5) My Menu  Menu languages: 25 languages  English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese  Factory firmware update  Update possible by the user. |  |
| **Interface** | Computer  Hi-Speed USB (USB 2.0)  Other  HDMI output (Type-C), External microphone (3.5 mm Stereo mini jack) |  |
| **Direct Printing** | Canon printers  Canon Compact Photo Printers and PIXMA Printers supporting PictBridge  PictBridge  Yes (PictBridge via WLAN compatible) |  |
| **Storage** | Type: SD, SDHC or SDXC (UHS-I) card |  |
| **Supported OS** | PC & Macintosh  Windows 10 / 8.1 / 8 / 7 (With Microsoft .NET Framework 4.5 is installed)19  Mac OS X 10.9 / 10.10 / 10.11 / 10.12 |  |
| **Software** | Image Processing  Digital Photo Professional 4  Other  EOS Utility  EOS Lens Registration Tool  EOS Web Service Registration Tool  EOS Sample Music  Picture Style Editor  Map Utility |  |
| **Power Source** | Batteries: Rechargeable Li-ion Battery LP-E6N (supplied)  Battery life: Approx. 1200 shots (at 23°C, AE 50%, FE 50%)20  Approx. 1100 shots (at 0°C, AE 50%, FE 50%) Battery Indicator: 6 levels + percentage  Energy saving: Power off after 1, 2, 4, 8 or 15  Adapter and battery charger: AC Adapter AC-E6(N), DC coupler: DR-E6, Battery charger LC-E6E, Car Battery charger CBC-E6 |  |
| **Physical Specifications** | Case material  Magnesium alloy front and back housing. The upper part of the case is made of polycarbonate  Operating environment  0–40°C, humidity 85% or less  Dimensions (WxHxD)  144.5 x 110.5 x 71.2  Weight (case only)  Approx. 755g (CIPA standard tests, with battery and memory card) |  |
| **Accessories** | Optical viewfinder  Eyecup Eb, E-series Dioptric Adjustment Lens, Eyepiece Extender EP-EX15II, Angle Finder C  Case Protecting Cloth PC-E1 |  |
| **Bag** | Wireless File Transmitter  Built in Wi-Fi transmission  Lenses  All EF lenses (excludes EF-S lenses & EF-M lenses)  Flash  Canon Speedlites (90EX, 220EX, 270EX, 270EX II, 320EX, 420EX, 430EX, 430EX II, 430EX III-RT, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, Macro-Ring-Lite MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT) BG-E13  Battery Grip BG-E21  Remote control / switch  Remote Switch RS-80N3  Timer Remote Controller TC-80N3  Remote Controller RC-6  Wireless Remote Control BR-E1 (via Bluetooth) Other  Hand Strap E2  Interface Cable IFC-400PCU  Directional Stereo Microphone DM-E1 |  |
| **Warranty** | 36 months |  |
| **4. Audio Preamplifier** | **4** | **Characteristics** | Inputs: 2 x Balanced microphone,  2 x stereo balanced line, 3 x stereo unbalanced line, Bluetooth receiver, front 3.5 mm jack, contact priority mute, Outputs: 1 x Balanced Stereo output, Inputs: Balanced microphone - Sensitivity -6 dB ~ -50 dB  Line Sensitivity -20 dB ~ +4 dB, EQ: High 15 dB (12.5 kHz), Mid 15 dB (2.5 kHz), Low 15 dB (80 Hz), Phantom Power 15 V DC, Outputs: EQ High 15 dB (2.5~20 kHz), Bass 15 dB (100 Hz), Frequency response (± 3 dB) 20 Hz - 20 kHz  Signal to Noise > 90 dB, THD+N (@ 1 kHz) < 0.05%, Crosstalk (@ 1 kHz) > 70 dB, Power Supply 100 ~ 240 V AC / 50 ~ 60 Hz, Consumption 12 W |  |
| **Warranty** | 36 months |  |
| **5.** **Audio Amplifier** | **4** | **Characteristics** | @ 4 Ω Stereo 2 x 150 W, @ 8 Ω Stereo 2 x 80 W, @ 8 Ω Bridge 300 W, Frequency Response (± 3 dB): 20Hz-20kHz, Signal/Noise > 90 dB, THD+N (@ 1 kHz) < 0.1%, Crosstalk (@ 1 kHz): >70 db, Protection: DC Short Circuit, Overheating, Overload, Signal Limiting |  |
| **Warranty** | 36 months |  |
| **6. Overhead Speaker** | **8** | **Characteristics** | RMS: 60W, Max. Power: 240W, Resistance: 12Ω, Sensitivity (1W/1m): 90db, Sound pressure (Max. W/1m): 106db, Frequency range (-10db): 120Hz-20kHz, Frequency response (± 3 dB): 150Hz- 20 kHz |  |
| **Warranty** | 36 months |  |
| **7. Wireless Head Microphone** | **4** | **Characteristics** | Cardioid, Audio output: 6.3mm (unbalanced): +12 dBu, Input impedance: 40 kΩ, unbalanced / 1 MΩ, Sensitivity: 1.6 mV/Pa, Signal to noise ratio:  ≥ 110 dBA |  |
| **Warranty** | 36 months |  |
| **8. LCD Display** | **6** | **Characteristics** | Diagonal 55", 4K, webOS SmartTV, Miracast, Airplay |  |
| **Warranty** | 36 months |  |
| **9. Projector** | **12** | **Characteristics** | DLP technology, WUXGA resolution, 5,000 ANSI lumens, image format 16:10, Image projection ratio: 1.39-2.09, Lens: F=2.42 - 2.97, f=20.70 - 31.05 mm, Zoom: 1.5x , Manual focus, Speaker: 10W, Inputs/Outputs: VGAInx1, HDMIInx2, AudioInx1, VGAOutx1, AudioOutx1, RJ45, Trigger 12V, RS-232, USB-Ax2, USB miniBx1, Noise level: 38/34db, Weight: 3.4kg |  |
| **Warranty** | 36 months |  |
| **10. Ceiling Mount for a Projector** | **4** | **Characteristics** | total length of installation 20 cm, rotation 360°, maximum weight of the projector: 10 kg, ball joint enables smooth adjustment of the tilt +/- 25°, maximum distance between mounting holes of the projector - 38 cm |  |
| **Warranty** | 36 months |  |
| **11. Electric Projection Screen** | **4** | **Characteristics** | image format 16:10, Screen dimensions: 240 x 200 cm, Active surface dimensions: 235 x 146.8 cm, black frame |  |
| **Warranty** | 36 months |  |
| **12. USB Video Conferencing System** | **6** | **Characteristics** | Camera: 4K 3x optical zoom lens with 15x zoom, Pan: 180°, Tilt: 105°, Field of view (D/H/V): 92°/84°/53°, Sony 4K True VDR sensor, automatic tracking and field of view adjustment, Gesture control for intuitive camera control, Minimum focus distance: 80 cm, People counting API, 10 presets, Web control, control via app, Audio: Beamforming microphone array from 10 elements, capture range 8 meters, stereo speaker with output power 12W (6W x 2 pcs), sound volume up to 96 dB SPL at 1/2 m, echo cancellation, noise suppression, microphone extension option |  |
| **Warranty** | 36 months |  |
| **13. Extension Conference Speakerphone for USB Video Conference System** | **6** | **Characteristics** | Microphone frequency response: 120Hz–16kHz  Microphone sensitivity: -34± 2 dBV @1KHz, 94dBSPL  Microphone distortion: < 1% from 150Hz Microphone support range: Diameter 6M  Speaker volume: Adjustable to 90dB SPL at 0.5 m  Speaker Distortion: 120Hz~200Hz<20% , 201Hz~500Hz<10% , 501Hz~10K Hz<2%  Speaker Sensitivity: 81 ± 2dBSPL@1W/1m  Speaker Frequency Response: 180Hz–20KHz |  |
| **Warranty** | 36 months |  |
| **14. Projection Screen Tripod** | **8** | **Characteristics** | Tripod for a240 x 200 cm or 240 x 240 cm |  |
| **Warranty** | 36 months |  |

Unless otherwise specified, the requirements in these Technical Specifications are presented as a **minimum standard** which the offered goods must meet in order to be compliant.

The Bidder is expected to submit documentary evidence (brochures, technical data sheets, etc.) of the technical compliance of his quotation including certificate issued by the manufacturer/distributor that the bidder is authorized to sell described equipment that are the subject of this procurement in the territory of the Republic Serbia. The document must be addressed to the customer, written in Serbian or English, with a reference to the public procurement number.

1. Supply of goods under the Serbia Railway Sector Modernization Project (SRSM), Loan No. 9221YF/CFACRS 1015 02 D, is free from VAT, as per the Loan Agreement for this Project [↑](#footnote-ref-1)