

## TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

SI No.	Description of items	Quantity
PUR/50/ISR/SK/G/2022-23		
1.	Supply, Installation, commissioning and Training of Industrial Videoscope with measurement.  (Details are as per ANNEXURE-I)	01 No.

### 1. DELIVERY, INSTALLATION & COMMISSIONING

1.1. To be done by Supplier/Manufacturer within 30 days.

### 2. PAYMENT TERMS:

2.1. 100 % Payment shall be paid within 30 days after delivery installation, commissioning and training of Industrial Videoscope with measurement and acceptance of the material upon submission of claim supported by the acceptance certificate issued by the purchaser and submission of Performance Security @3% of Invoice Value.

### 3. WARRANTY

3.1. 01 Year Comprehensive on-site warranty will be provided by the supplier from the date of satisfactory installation of ordered goods.

### 4. PERFORMANCE SECURITY

4.1 Performance Security @3% of invoice value shall be provided by the supplier within 21 days from the date of issue of Purchase Order.

### 5. BID SECURING DECLARATION FORM:

5.1 Bid securing Declaration is to be submitted by the Bidder as per the format prescribed in the tender document.

### 6. MANUFACTURER AUTHORISATION FORM:

Manufacturer Authorisation Form will be provided by the supplier.

### 7. MAKE IN INDIA CERTIFICATE FOR LOCAL CONTENT

Certificate for local content to be provided by the supplier in form 14 (Format attached along with Tender Document). Percentage of value addition & Name and address of the factory where the value addition was made should be mentioned clearly in the Form 14.

## Annexure – I

### SPECIFICATION FOR INDUSTRIAL VIDEOSCOPE WITH MEASUREMENT

S. No.	FEATURES	DETAILS
1	Diameter of Video scope Probe (Outer diameter)	6.0 mm to 8.0 mm
2	Working length of probe	Minimum 7.0 meters cable with camera tip.
3	Lens locking mechanism	Must be threaded one.
4	Camera Type	CCD (Charge Coupled Device)
5	Tip articulation	With power assisted joystick articulation rotary range 360° and bending range 120° or more with the axis.
6	Camera resolution	4 Mega pixel or better
7	Probe Construction	Min. two layers sheath with smooth polyurethane or wolfram sheath, robust and resistance to crush, wear & tear.
8	Image Recording	Options to save both Still image and video recording must be there. Video recording resolution must be 4 Mega pixels or better.
9	Optical lenses for Normal Viewing	Direction of View : 0° and 90° Field of view for forward and side lens : 80° and more Depth of Field for forward and side lens : 3mm – 100mm or better
10	Optical lenses for Stereo Measurement	Direction of View : 0° and 90° Field of view for forward lens & Side Lens : 50/50 degree or more Depth of Field for forward lens & Side Lens : 3mm – 40mm or better
11	Joy stick / function keys	Ability to access menu and navigation through Joy stick.
12	Display Unit	5" or higher integrated color LCD screen with day light view, Auto and variable brightness contrast control and touch screen facility.
13	Screen resolution	5 Mega pixels or better
14	Video output port	Min. one video output port / connector on the base unit, in order to connect another Laptop/monitor.
15	Measurement	Stereo measurement software to estimate and precisely determine the dimensions (length, Area, width, Depth etc of the flaws/defects).
16	Internal Memory	≥ 4 GB
17	External Memory option	Minimum 1 USB port / memory slot.
18	Illumination method	Integrated metal halide lamps or high intensity LED with ability to control light intensity.
19	Image controls	Min. 3X Digital Zoom
20	Still Image Format	JPEG/BMP
21	Video image Format	MPEG 2 / MPEG 4 / AVI
22	Audio Annotation	Integrated or inbuilt jack for microphone for comments.
23	Data management	In-built software capable of creating files, folders, customize file names

		and store data to internal memory or USB drive as desired by the operator. Provision for transferring of images between memory card, device and PC.
24	AC input	AC 220V single phase. 50 Hz to 60 Hz.
25	Battery backup/support	120 min. or more with on board Li ion battery charging facility. Extraone set Li ion battery must be provided
26	Battery charger	One external battery charger must be provided for charging Li ion Battery separately.
27	Complete System weight without case	4 kg or less
28	Report generation software	Must have inbuilt software to generate inspection report in word or PDF format after inspection.
29	PC compatibility	Must be interfaced with a personal computer, ease of transfer of video & image files from the device.
30	Safety standard	Must be rated to IP65, MIL 810H, MIL 461G
31	Carrying case	Suitable wheeled carrying case. Must be strong and easily portable.
32	Accessories	Memory card (≥8 GB), AC adaptor, connecting cables, Visual tips-3 nos. (forward view, side view and stereo measurement)
33	Service facilities	Supplier/OEM must have post sales service facilities in India.
34	Warranty	12 months from the date of installation
35	Demonstration / training	Must be provided at CSIR-CMERI.