

## TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

Sl No.	Description of items	Quantity
<b>File No. PUR/105/DMSE/RK/E/2022-23</b>		
<b>1</b>	<b>SUPPLY, INSTALLATION AND COMMISSIONING OF HIGH SPEED IMAGE ACQUISITION SYSTEM</b>  <b>(DETAILED SPECIFICATIONS AS PER ANNEXURE – I)</b>	<b>1 SET</b>

### 1. DELIVERY, INSTALLATION & COMMISSIONING:

The ordered goods are to be delivered, installed & commissioned at CSIR-CMERI, Durgapur within 90 days of receipt of Purchase Order. Installation should be carried out only by expert engineers of Supplier / Manufacturer.

### 2. PERFORMANCE SECURITY:

Performance Security@3% of Invoice value will be provided by the supplier within 21 days after awarded of Purchase Order value valid till 2 months beyond the warranty period.

### 3. PAYMENT TERMS:

100% payment shall be paid within 30 days after delivery and satisfactory installation of ordered goods upon submission of the Performance Security.

### 4. BID SECURING DECLARATION:

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

### 5. WARRANTY:

01 (one) year Standard OEM warranty will be provided by the supplier from the date of satisfactory installation of ordered goods.

### 6. MANUFACTURER AUTHORIZATION FORM

Manufacturer Authorisation Form will be provided by the supplier.

### 7. BID SECURITY DECLARATION

Bid Securing Declaration in Company's Letter Head and duly signed by the authorized personal of the Bidder shall be provided by the supplier as per our format.

### 8. 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**

### **1. End use:**

The system will be installed at CSIR-CMERI, M. G. Avenue Road, Durgapur, West Bengal 713209. It will be used for performance evaluation of Pit bottom buffer under the project entitled “Design and development of drop test facility for Pit Bottom Buffer, used in Underground Coal Mines.”

### **2. Detailed specification:**

#### **High speed image acquisition system comprising of:**

##### **i. High speed camera (Quantity: 01):**

- Frame per second (FPS):  $\geq 1400$  FPS at 2K (2048\*1088) resolution  
 $\geq 400$  FPS at 4K (4096\*2176) resolution
- Recoding time at 4K resolution  $\geq 20$  minutes
- Recoding time at 2K resolution  $\geq 30$  minutes
- Internal storage  $\geq 2$ TB (SSD type)
- Operating temperature: 0-40°C
- Ingress protection: IP52
- Interface: USB, HDMI and wireless
- Weight  $\leq 2$ kg
- Len mount type: E-mount compatible
- Along with battery charger and optical lens of focal length 50mm and focal-ratio 1.4/1.8

##### **ii. Monitor (Quantity: 01):**

Screen size  $\geq 5$ ”

Interface: HDMI

##### **iii. Tripod (Quantity: 01):**

Material = Aluminium

Weight  $\leq 3$ kg

Payload carrying capacity  $\geq 5$ kg

Fluid leveller = Yes

Adjustable height  $\geq 150$ cm

##### **iv. Gimbal stabilizer (Quantity: 01):**

3-axis stabilisation

Tested payload  $\geq 2$  kg

##### **v. Dehumidifying dry cabinet (Quantity: 01):**

Type: Active

Capacity  $\geq 50$  Liters

With humidity controller & digital display

##### **vi. LED video light (Quantity: 02):**

Lumens  $\geq 3000$

##### **vii. Anti-vibration table for system mounting (Quantity: 01)**

Dimension: Approx. 1200mm\*900mm\*750mm

Load Capacity: upto 1250kg

## **Annexure-I**

### **3. Scope of supply & incidental services:**

The supplied items are required to be installed at the buyer's site (i.e. CSIR-CMERI, Durgapur).

### **4. Inspection and Tests required:**

- a) The Director, CSIR-CMERI, Durgapur shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.
- b) No payment shall be made for rejected stores. Rejected items must be removed by the bidders at their own cost and replaced within four weeks of the date of rejection immediately.

### **5. Acceptance test:**

As mentioned in Section 4 (Inspection and Tests required) above.

### **6. Qualification Criteria:**

Lowest bid with technically suitable and reasonable priced.