e-NOTICE INVITING TENDER (e-NIT)

Tender Notification No: NITR/PW-SR/EC/2020/08   **Dated: 20/01/2020**

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Hardware Components** at NIT Rourkela.

Last date of Submission of Bid   :   **10/02/2020 by   03:00 PM**

Opening date of Techno-commercial Bid: **11/02/2020 at   03:00 PM**

For Details: http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Dr. Santos Kumar Das, (Assistant Professor)
         Department of ECE;
         Ph.: 0661-246-2466
Email ID: dassk@nitrkl.ac.in
Bidding through: e-Procurement Portal of Ministry of HRD, Govt. of India
              https://mhrd.euniwizarde.com/

                                                            Sd/-
                                                            REGISTRAR

NATIONAL INSTITUTE of TECHNOLOGY
ROURKELA – 769 008, ODISHA

(OPEN TENDER NOTICE NO.: NITR/PW-SR/EC/2020/08   **Dated: 20/01/2020)**

(Procurement of Hardware Components at NIT Rourkela)

SL. No.	ITEM NAME	TECHNICAL DESCRIPTION	QUANTITY
1	Soldering Station	2 channel power unit, fast response soldering iron with auto. Stand-by function. 65W rated. Supply voltage 230V 50Hz, Tool voltages 24V 50Hz, Power rating 300W, Temperature range soldering iron 100C – 450C heat up time to 350C ca 7 sec and de soldering iron 100C – 450C heat up time to 350C ca 35sec, Temperature accuracy +/- 9C, Temperature display digital LCD, Temperature setting up / down push buttons. (Preferred Weller WR 2000 ER model)	1
2	Ip camera	Signal Type: IP Camera Resolution: 5MP Image Sensor: 1/3" 5MP CMOS Sensor Night Vision: 300ft Lens: 6.0mm Angle of View: 65° Power Input: 12V DC Operating Temperature: -20°F to +115°F POE support: yes Weather Proof: Yes, IP66 Video Encoding: H.264 Warranty: 1 Year	4
3	8 channel Network Video Recorder (NVR)	Recorder Type: NVR CPU: Embedded Dual Core Total Cameras Supported: 8 Supported Camera Signals: IP Number of IP Cameras Supported: 8 Number of PoE Inputs: 8 Number of Audio Inputs: 8 IP Streams Encoding Supported: H.265+, H.265, H.264+, H.264 Encoding Support Detail: H.265+, H.265, H.264+, H.264 Recording Resolutions: 8MP, 4K, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P Total Incoming IP Bandwidth: 80 Mbps Total IP Recording Bandwidth: 80 Mbps Max Hard Drive Capacity: 1HDD, 6TB USB Ports: (2) USB 2.0 Video Outputs: (1) HDMI, (1) VGA Total PoE Power: 80 W Power Input: 110-220V AC Warranty 1 Year	1

4	PoE Adapters for Non-PoE IP Cameras	NA	4
5	Network Ethernet cable (200 ft.) with RJ 45 connector	NA	1
6	Wireless 2K PTZ Camera 4X Zoom,	Signal Type: IP Camera Resolution: 4MP Image Sensor 1/3": CMOS Sensor Lens: 2.7-11mm Optical Zoom: Motorized Zoom Angle of View: 112.5° - 39° Wide Dynamic Range (WDR): WDR Pan Tilt Zoom: Yes Video Analytics: Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection. Important Features: IK10 Impact Resistant SD Card Slot: Yes Power Input: 12V DC Operating Temperature: -22°F to +140°F Dimensions: 4.80" x 3.5" (diameter x height) Weight: 1.6 lbs Weather Proof: Yes, IP66 Video Encoding H.265/H.264 Warranty 1 Year	1
7	Arm Bracket for Dome Security Cameras	Material: Aluminium Dimensions: 9.04" x 6.64" x 4.46" (W x H x D) Operating Temperature -40°F - +140°F Humidity 0-90% RH Load Bearing 6.61 lbs Weight 2.05 lbs	1
8	Pole Mount Bracket Mini for PTZ camera,	Material: Aluminium Dimensions: 4.94" x 4.49" x 0.79" Mast Diameter: 3.15" - 5.91" Operating Temperature: -40°F - +140°F Humidity: 0-90% RH Load Bearing: 6.6 lbs Weight: 0.6 lb	1
9	3D LIDAR and its accessories	Application Security, Outdoor Light source Infrared: (850 nm) Laser class 1 (EN/IEC 60825-1:2014; EN/IEC 60825-1:2007) Aperture angle Horizontal: 275° Scanning frequency: 50 Hz, 4 x 12.5 Hz Angular resolution 0.25° Heating: Yes Working range: 0.24 m ... 64 m Scanning range At 10% remission: 16 m At 90% remission: 30 m Amount of evaluated echoes: 3	1

		Fog correction: Yes (Preferd Sick lidar MRS1000/outdoor)	
10	Thermal camera	Image Sensor :Vanadium oxide uncooled focal plane arrays Maximum Resolution: 384 x 288 Thermal Sensitivity (NETD) <50mK at 32°F / 25°C Range Performance Detection Range: Human: 1447' (441 m), Vehicle: 4439' (1353 m) Recognition Range: Human: 361' (110 m), Vehicle: 1109' (338 m) Identification Range: Human: 180' (55 m), Vehicle: 554' (169 m) Smart Functions Range VCA: Human: 361' (110 m), Vehicle: 1011' (308 m) Temperature Measurement: 2 x 2 m: 1152' (351 m), 1 x 1 m: 581' (177 m) Fire Detection 2 x 2 m: 2894' (882 m), 1 x 1 m: 1447' (441 m) Lens: 15mm IFOV (Instantaneous Field-of-View): 1.13 mrad Field of View: 24.55 x 18.54° Focusing Distance Minimum: 8.2' (2.5 m) Aperture: f/1.0 Integration Streams Main/Sub/Third: 50 fps (384 x 288) Video Compression: H.265, H.264, MJPEG, H.265+, H.264+ encoding with Baseline/Main/High Profile Audio Compression: G.711u/G.711a/G.722.1/MP2L2/G.726/PCM Protocols IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour Live View Simultaneous: Up to 20 User/Host Level Up to 32 users 3 Levels: Administrator, operator, user Security User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering Alarm Input: 2 channel inputs (0 to 5 VDC) Alarm Output: 2 channel relay outputs, support alarm linkage Alarm Actions Preset, patrol scan, pattern scan, SD card record, relay output, smart capture, FTP upload, email linkage Audio Input 1 x 3.5 mm microphone input / line input Line Input: 2 to 2.4 V p-p Output Impedance: 1 kOhm ±10% Audio Output :Line level Impedance: 600 Ohms Ethernet 1 x RJ45 10M/100M self-adaptive Ethernet interface Storage Built-in microSD card slot supports	1

	microSD/SDHC/SDXC cards up to 64 GB Supports manual/alarm recording Analog Video Output 1 V p-p / 75 Ohms, PAL/NTSC, BNC Application Programming Interface Open-ended API, supports ONVIF, PSIA, CGI, Hikvision SDK and third- Operating Temperature -40 to 149°F (-40 to 65°C) Humidity 90% or less Protection Level IP66 TVS 6000 V lightning protection, surge protection, voltage transient protection. (preferred HIKVISION camera)	

1. **Quantity required : As mentioned above (All information provided in technical specification)**

2. **Delivery: Within 30 days from the date of purchase order.**

3. **Last Date of submission of Tender: 10/02/2020   by   03:00 PM**

4. **Date of opening of Techno-commercial bid: 11/02/2020 at 03:00 PM**

5. The firm should not have been black listed at any time.

6. The submission of following bids by the tender should be through **e-Procurement Portal of Ministry of HRD, Govt. of India   https://mhrd.euniwizarde.com/ .** Please follow the guidelines as per the portal.

Procurement of Hardware Components at NIT Rourkela
(Open Tender Notice No.: NITR/PW-SR/EC/2020/08 ; Dated- 20/01/2020)
Due on 10/02/2020 by 03:00 PM

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7. Liquidated damage clause will be charged for any delay in supply of goods.

8. The validity of the tender shall be **90 days** from the date of opening of the bids.

9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx.

10. NIT reserves the right to qualify or deny pre-qualification of any or all applicants without assigning any reasons.

REGISTRAR
NIT, Rourkela
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