



**Ramgarh Engineering College**  
(Estd. by Govt. of Jharkhand & run by Techno India under PPP)

**Quotations are invited for the following equipment related to the project under CRS scheme.**

**CRS Id: 1-5728190571**

**list of equipment/Items**

<b>Sr. No.</b>	<b>Items/Equipments</b>	<b>Specifications</b>	<b>Quantity</b>
1.	Workstation	Attached in Annexure- I	01
2.	UPS and Inverter	Attached in Annexure-II (3KVA)	01
3.	Battery	Dry Cell , 12 Volt, 26Ah	08
4.	Battery Storage Rake		01
5.	Micro Vickers Hardness Tester With Touch Screen Display	Attached in Annexure-III	01
6.	Digital Vernier Caliper	Measuring range: 0-150mm, Resolution: 0.01mm Display: LCD Material: Stainless Steel	01
7.	Vacuum Desiccator	Storage Capacity: 15liter Material : Glass	01
8.	FEM Software	Ansys Mechanical with research license (one user)	01
9	Mounting Press with Polisher and grinder	Attached in Annexure-IV	01
10	Printer (Black and White)	Printer with photocopy and scan facility (Black and white)	

**Furniture**

<b>Sr. No.</b>	<b>Items</b>	<b>Quantity</b>
1	Office table	1
2	Office chair	1
4	Normal chair	1
5	Computer table	1
7	Table for equipment	2

Those who are interested. can send their Sealed quotation to be submitted/ delivered at the address mentioned below, **Ramgarh Engineering College,Vill-Murubanda P.O- Barkipona P.S- Rajrappa project Dist- Ramgarh Jharkhand Pin-825101**



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Annexure: 1

(Minimum Requirement) TECHNICAL SPECIFICATION OF WORKSTATION (Quantity 1 no.)

Processor	Intel Xeon 3.1 GHz 4 Core Processor
Cache	Intel 8MB L3 Smart Cache
Chipset	Intel C202 Chipset
Memory	32GB DDR3 Installed Memory, maximum upgradeable up to 32GB with 4 DIMM Slots.
Hard Disk	1 TB Serial ATA (SATA) Hard Disk; upgrade up to 4 Hard Disks
Optical Drive	DVD Burner with Dual Layer Support
Graphics	Integrated Intel HD Graphics
Ports	1 internal, 2 front, and 4 rear USB ports ; 1 Serial Port, 1 Video Port
Network	Internal On board Dual 10/100/1000 Mbps network
Power supply	Maximum 350Watt , fixed power supply
RAID support	
Others	Keyboard and Mouse of same brand of server.
Features	Pre failure alert on Processors, memory, disk drives, power supplies, and fans; Automatic Server Restart
Security Features	Power-on password, administrator password, and Trusted Platform Module.
Monitor	20" TFT LED Backlit Monitor
Form Factor	Entry Level Tower 4u / 5u Server
Operating Systems	Windows 10 Pro (64-Bit)
Warranty	2 years onsite warranty for each and every component

The scope of work covers the supplies, delivery at site, installation, testing, commissioning, training and maintenance of High end desktop for research project



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**Annexure-II**  
**3 KVA online UPS (no. 1)**

Specification	Parameter
<b>Input specification</b>	
Capacity	3KVA
Input	230 V AC
Input Voltage Range	160 V AC TO 270 V AC
Input Frequency Range	45 TO 55 Hz
Input Power Factor	0.96
Input Protection	Standard (MCB)
<b>Output specification</b>	
Nominal Output Voltage	230V
Waveform	Sine wave
<b>Indicator</b>	
Load On Battery - Required Battery On Charge - Required Battery Low - Required Mains - On Required Dc - On Required Inverter - On Required Inverter - Tripped	

**Battery (nos. 8) (Estimated cost: 30,000)**

<b>Dry Cell (nos. 8)</b>	<b>12 volt, 26Ah</b>
<b>Battery storage rake (1)</b>	<b>As per requirement</b>



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Annexure III

<b>DIGITAL AUTOMATIC TURRET MICRO VICKERS HARDNESS TESTER WITH TOUCH SCREEN DISPLAY</b>	
<b>SPECIFICATION</b>	
Testing Force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf(4.9N), 1kgf (9. 8N)
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Mini. measuring unit	0.031 $\mu$ m
Hardness measuring range	10~2800HV
Method of testing force applied	Automatic (loading, Dwelling, unloading)
Turret Type	Automatic
Eyepiece Magnification	10X
Objective Magnification	10x, 40x
Total Magnification	400X (Measuring), 100X (observation)
Test force dwell time	0~60s
X-Y Stage	Dimension: 100*100mm, Max. Movement : 25*25mm
Data output	Touch-screen display, Built-in Printer
Maximum specimen height	120mm
Distance from the centre to the outer wall of the indenter	160mm
Power supply	AC220V $\pm$ 5%, 50-60Hz



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**Annexure-IV**

<b>Single Disc Variable Speed Grinder/Polisher and Mounting press (mould maker)</b>	
<b>Sl. No</b>	<b>Specification for Variable Speed Grinder/Polisher</b>
1	8" Single Disc Polisher
2	Continuously Variable Speed 50 to 1000 rpm
3	Digital Speed Indicator
4	Flexible water jet with control valve
5	Corrosion proof bowl, free flow design
6	Interchangeable Disc
7	Holding Band
8	S.S Holding Ring Press Type
9	Splash Guard
10	Lid to cover
11	Power Supply : 230 V / 50Hz ( 1 + N + E )
<b>Automatic Mounting press</b>	
1	Digital Temperature Indicator and digital timer with LCD Display System
2	Hydraulic Fully Automatic system
3	Quick Ram return to speed up reloading
4	1500 Watt mould Heater
5	Water Cooling System (Automatic)