

SKILLS STRENGTHENING FOR INDUSTRIAL VALUE ENHANCEMENT [STRIVE]

Name of Procuring Entity : ITI Bhubaneswar

Annual Procurement Plan for Financial Year : 2021-22

Date of Approval of Annual Procurement Plan :

Approved By/Name of Approving Authority : IMC ITI Bhubaneswar

S. No.	Procurement Category	Name/Description of Procurement/Selection	Estimated Cost [INR]	Results Area	Procurement Mode	Applicable Procurement Rules	Use of GEM [Yes/No]	Use of eProcurement [Yes/No]	Procurement Method	Market Approach [National/International]	Proposed Procurement Start Date	Pre-bid Conference Date [if any]	Proposed Procurement End Date	Tentative Contract Award Date	Tentative Contract Duration [Months]	Tentative Completion Date
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]
1	Goods	Multiple Output DC regulated power supply. 0-30V, 2 Amps, + 15V Dual Tracking ,5V/5A, Display digital, Load & Line Regulation: ± (0.05 %+100mV), Ripple & Noise: 1 mVrms. Constant Voltage & Current operation	17900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
2	Goods	DC Regulated Variable Programmable DC Power Supply. 0-30V/3A with numeric keypad, PC interface and LCD for Voltage, Current & Power	16600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
3	Goods	LCR meter (Digital) Handheld. It can Measure six basic parameters with SMD R,C,L equipped Component Test Fixture	55800.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
4	Goods	70 MHz Mixed Signal Oscilloscope (4 Analog + 16 Digital Channel) With more than 20Mpt memory Real time Sampling 1GSa/sec , having LAN Interface with, I2C , SPI,Runt etc .. And RS232/UART, I2C and SPI trigger decoding functions ,two channel 25MHz awg plus math functions like differentiation, integration, abs, AND,OR,NOT etc.	163600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

5	Goods	25 MHz Arbitrary Waveform Generator with Digital Display for Frequency and Amplitude. Two Channel , 200MSa/Sec and 2Mpt memory with more than 150 different arbitrary waveforms and built-in 8th order harmonic generation and 150MHz Frequency counter PC Connectivity USB Device/Host and LAN	68100.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
6	Goods	6 1/2 Digit Digital Multimeter. Measurement Functions: DC &AC Voltage, DC&AC Current, 2-wire & 4-wire Resistance, CAP, Diode, Connectivity, Frequency,Period, Any Sensor.Temperature: RTD,THERM,TC (B/E/J/K/N/R/S/T) PC Interface USB Host, USB Device, LAN(LXI-C) Measurement Speed 10k readings/sec	135000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
7	Goods	3GHz Spectrum Analyzer with built-in Tracking Generator Frequency Range 9 kHz to 3.2 GHz Resolution Bandwidth(-3 dB): 10 Hz to 1 MHz Built in tracking generator Min. -148 dBm DANL Display 8" TFT or more PC Interface: USB Host & Device. LAN(LXI)	493500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
8	Goods	Electronics Workbench. Items 1,3,4,5,6 &7 are preferred in the form of workbench.	1031900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
9	Goods	Multi Function Test & Measuring Tool for Field Applications and Testing compatible with Laptop. 300 MHz Bandwidth 2 Channel Digital Storage Oscilloscopes, Spectrum Analyzer. Arbitrary Waveform Generator Sine 50MHz,Square 15MHz,Triangle 100KHz , AM –FM Modulation, 16 Channel Logic Analyzer Frequency and Phase Meter USB 2.0/ 3.0 Interface	111100.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

10	Goods	<p>Analog Component Trainer with following Seven Basic Modules.</p> <ul style="list-style-type: none"> • Diode Characteristics (Si, Zener, LED) • Rectifier Circuits • Diode as Clipper Circuit • Diode as Clamping Circuit • Zener as voltage regulator. • Transistor Type NPN & PNP and CE Characteristics • Transistor as a switch <p>Breadboard for Circuit design DC power supply: +5V, 1A (Fixed); +12V, 500mA (Fixed); ±12V, 500mA (Variable) AC power Supply: 9V-0V-9V, 500mA Function Generator: Sine, Square, Triangle (1Hz to100KHz) Modulating Signal Generator: Sine, Square, Triangle (1Hz to 10KHz). Voltage, current and frequency on board LCD display. PC Interface – Acquisition from two analog input channel Simulation Software</p>	27600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
11	Goods	<p>IT Workbench for computer hardware and networking.</p> <p>The bench comprises with Computer Hardware Training System (02 Nos.) The different circuit boards of PC/AT Computer are exposed on a PCB, LAN Training System with Wireless LAN as well to study Peer to Peer, STAR, RING Topology. Protocols: CSMA /CD, CSMA /CA, Stop N Wait, Go back to N, Selective repeat, Sliding Window, Token Bus, Token Ring, Colored representation of data in transmission & reception. Data transmission speed: 10/100 Mbps, Smart managed 3 Layer and 2 Layer Switch, Media converter, POE Switch, Wi-Fi LAN card, IP Camera, Energy meter, LED tube light, Voltmeter and Ammeter will be fitted.</p> <p>Networking Fundamentals Teaching Simulation Software DSO 50MHz 4 Channel ,1GSa/Sec ,more than 20 Mpt memory DSO DMM : 41/2 Digit with LCD Display</p>	985200.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

12	Goods	Laptop latest configuration	85000.00	1	Public Procurement	State Financial Rules	Yes	No	Gem	National	3.3.2021		10.3.2021	17.3.2021	1month	16.4.2021
13	Goods	Electronic circuit simulation software with five user licenses. Circuit Design and Simulation Software with PCB Design with Gerber and G Code Generation, 3D View of PCB, Breadboard View, Fault Creation and Simulation.	234000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
14	Goods	SMD Soldering & De soldering Station with necessary accessories. SMD Soldering & De- soldering Station Digitally Calibrated Temperature Control SMD Soldering & De-soldering Power Consumption : 60 Watts I/P Voltage : 170 to 270 V De-soldering : 70 Watt Temperature Range : 180 to 480° Centigrade Power Consumption : 270 Watts Hot Air Temperature : 200 to 550° Centigrade	44900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
15	Goods	SMD Technology Kit. SMD component identification board with SMD components Resistors, Capacitors, Inductors, Diodes, Transistors & IC's packages. Proto boards with readymade solder pads for various SMD Components. SMD Soldering Jig.	32900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

16	Goods	<p>Microcontroller kits (8051) along with programming software. (Assembly level Programming) With six important different application modules</p> <ol style="list-style-type: none"> 1. Input Interface Switch, Matrix Keypad, ASCII Keypad 2. Display LCD, Seven Segment, 3. LED Matrix ADC & DAC 4. PC Interface module 5. Motor DC, Stepper, Servo 6. DAQ <p>Core 8051 MCU clocked at 11.0592 MHz., supporting both programming modes Keypad and computer ,LCD for both programming and run mode, ready to run programmer to support family of controllers AT89C52,DC Power Supplies +12V, -12V, +5V & -5V, Breadboard to make circuits, Learning content through simulation Software and following application modules</p> <ol style="list-style-type: none"> 1. Input Interface : 4x4 Matrix Keypad, ASCII Key PAD, Four Input Switch 2. Display 16X2 LCD, Seven Segment, LED Bar Graph 3. ADC/DAC with ADC/DAC0808 4. PC Interface: RS232 & USB 5. Motor Drive: DC, Servo, Stepper 6. DAQ: 4ch analog 10bit, 22 DIO resolution,6MHz Frequency Counter (square wave), DAQ with PC interface software 	54300.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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17	Goods	<p>Sensor Trainer Kit Containing following Sensors</p> <p>a) Air humidity and Temperature</p> <p>b) RTD</p> <p>c) Atmospheric Pressure</p> <p>d) Air Quality</p> <p>e) Smoke Detector Sensors</p> <p>f) Limit Switch</p> <p>g) Photo sensors</p> <p>h) Capacitive displacement</p> <p>IoT enabled Android based 7" Graphical touch LCD with inbuilt cortex processor & DAQ for acquiring analog data and software for viewing the output waveforms with USB storage and HDMI output. Ethernet port to connect real world. Inverting, Non – Inverting, Power, Current, Instrumentation and Differential Amplifier, F to V, V to F, I to V, V to I Converter, High Pass and Low Pass Filter, Buffer, LED, Buzzer, LED Bar Graph, Touch Switch Included Sensors :RTD,NTC Thermistor,LM35,Photovoltaic, Air humidity and Temperature, Gas(Smoke),Air Quality, Atmospheric Pressure, Limit switch, Capacitive displacement</p>	131700.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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18	Goods	Different Microcontroller/Processor Training and Development Platform for AVR, PIC, ARM and Arduino. MCU PIC16F877A , 4MHz, Onboard programmer will program PIC Devices, USB Port MCU ATMEGA8515 ,8MHz, onboard programmer will program ATMEGA series microcontroller, USB Port MCU LPC2148 , 12MHz,LED 8Nos, ADC 10 bit 10Nos, DAC 10bit ,USB and RS232, RTOS support, JTAG Connector, USB2.0,Onboard Zigbee, I2C,SPI,RTC,DC motor, PWM, Sensor LM35 , Display 16X2 LCD Display , Motor Drive: L293D 600mA (5-12V), Programmer USB Interface. Microcontroller ATmega328p (Arduino Based), 16MHz, igital I/O Pins : 14 (of which 6 provide PWM output) ,Flash Memory : 16KB (of which 2KB used by boot loader) Each platform should have Bread DC Power Supplies +12V, -12V, +5V & - 5V, Breadboard to make circuits.	61000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
19	Goods	Internet of Things Explorer Processor : 64bit ARMv7 with 1GB RAM , Memory 32GB ,OS: Open source Linux, Connectivity: Wireless LAN, Bluetooth, Zigbee, USB & Ethernet, HDMI interface, 1.77" Color TFT LCD , Driver for Stepper and DC Motor, six 16 bit Analog Input, RTC and 4-20mA input. Zigbee: 2.4GHz, Sensors: Temperature and Humidity, Air Quality, Soil Moisture, Ambient Light, Soil/Water temperature, PIR Sensor. GSM IoT Gateway - Quad- Band 850/900/1800 /1900 MHz - GPRS multi-slot class, Control via AT commands. Explore physical and application layer protocols like RS232, RS485, GSM, Ethernet and MQTT, CoAP, HTTP, FTP. Cloud/server configuration includes HTML, Java, php and mySQL. IoT Node: Wireless 2.4GHz Zigbee, 5 Analog Inputs and at least 3 Digital Outputs, At least one I2C Channel, support OTA. Online Cloud/Server Services for 2 years.Battery 3.7V/4400mAH with Solar Panel, USB interface.	165500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

20	Goods	<p>Field Interface and Protocol Simulation Kit. A console including :Any Branded Desktop Computer with Windows Operating System</p> <ol style="list-style-type: none"> 1. Ethernet Devices with Isolated Supply and port 1. 4 AI(0.1% FSR), 4 AO (0-10VDC), Ethernet Port –Qty 1 2. 8 Relay Outputs, Ethernet Port – Qty 1 3. 8 Pulse Outputs, Ethernet Port – Qty 1 4. 8 Digital Inputs, Ethernet Port – Qty 1 5. 4 RS485 Slave ports, 1 Ethernet Port – Qty 42. 16 Port Ethernet Switchfor networking of field ethernet devices 3. SMPS to power up multiple ethernet based field simulation devices 4. Required Connectors, Switches and LED indicators for Field Interface circuits such as Digital Inputs, Relay Outputs, Analog Inputs, Analog Outputs, Pulse Signals 5. Software <ol style="list-style-type: none"> 1. Communication with simulation device on ethernet MODBUS TCP Protocol 2. Field Interface simulation using HMI replica of Console for easy understanding of students 3. Port Simulation – Serial Port Terminal, TCP/IP, UDP, HTTP 4. Protocol Simulation – MODBUS RTU Master/Slave, MODBUS TCP Master/Slave, DLMS Client, IoT Protocol Simulations – MQTT topic publish subscribe simulation 	356500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
21	Goods	<p>Solar Power Lab Solar PV Modules. OpenCircuitVoltageVoc10V,ShortCircuitCurrentIsc.60 mAMaximumPowerVoltage(Vmp)8.80V,MaximumPowerCurrent(Imp):0.57A,Batteries,Voltage6V,4Ah.Buck&BoostConverter,DusktDawnSensing,LCDforVoltageandCurrent.InteractiveSolar Training Software</p>	44500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

22	Goods	Solar PV Module Analyzer Micro-controller Based with 16X2 LCD, PC Interface, mains & battery operated. Capable to measure Open Circuit Voltage and Short Circuit Current, Maximum Voltage and Current at Maximum Power DCV range 0-50V, DCA Range 10A	25200.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
23	Goods	Wireless Communication modules for interfacing with microcontrollers a) RFID Card Reader b) Finger Print c) Zigbee d) GPS e) GSM f) Bluetooth g) Wi-Fi Core 8051 MCU clocked at 11.0592 MHz, supporting both programming modes Key Pad and PC ,LCD for both programming mode and run mode, ready to run programmer to support family of controllers AT89C51/52 & 55 ,DC Power Supplies +12V, -12V, +5V & -5V,Breadboard to make circuits, detailed learning content through simulation Software and following application modules : RFID Card Reader ,Finger Print, Zigbee, GPS, GSM, Bluetooth and Wi-Fi	119800.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
24	Goods	Sensors for Smart Parking All should be compatible with Sensor Training Platform & IOT Explorer mentioned above: CCTV Camera , Motion Sensor, RFID, Relays, Hooter, Magnetic Hall Sensor, Ultrasonic, Application Software for SMART Dashboard	995000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

25	Goods	Sensors for Smart Water & Waste water Management & Monitoring All should be compatible with Sensor Training Platform & IOT Explorer mentioned above: Conductivity Sensor, PH Sensor Cupric (Cu2+), Silver (Ag+), Lithium (Li+) with 10, 100 and 1000 ppm solution calibration kit. Level Sensor, Flow Sensor, Ultrasonic Sensor & Temperature.	932300.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
26	Goods	Weather Monitoring System Temperature Range : -10°C to 90°C, Relative Humidity Operating Range 0 to 95% ,Wind Speed Sensor Speed : 0 to 20m/S Resolution 1m/S ,Wind Direction, Rainfall Bucket collector, Solar Radiation, UV Index, Atmospheric Pressure, Air Quality PM2.5, GSM based cloud connectivity, Application Software for Dashboard for remote monitoring and analysis. Power Supply Battery 12V/42AH Solar Panel : 100W	307500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
27	Goods	Smart Solar Street Lighting Training Platform. Microcontroller based Wireless connectivity using WiFi TFT LCD Display to display various parameters Connectivity: USB (04 nos) The system should come with following Sensors Temperature, Humidity, Air Quality, PIR, and Auto diming Solar Panel: 40 W (01no), Polycrystalline type, Battery: SMF type for rating 12V, 26Ah (01 no) Charge Controller: PWM type LED Light: 10 Watt (01no) Application Software for SMART Street Light Dashboard	202700.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

28	Goods	IoT based Smart Streetlight System. 1. IoT based Smart Streetlight Controller with Three Phase 415 VAC input, Single RS485 Communication Port, 4 Digital Inputs for Door sensors as well as contactor feedback, 3 Relay outputs for switching of streetlight circuits, Local Ethernet connectivity, SD Card Storage, Remote GSM/GPRS connectivity using Quad Band GSM/GPRS Module 2. Overvoltage protection 3. Over current protection 4. Three phase MODBUS energy meter with class 1.0 accuracy and IS13779 certification 5. SMC box with IP65 and IK10 ratings Responsive Web application for Smart streetlight management system having with map view based dash board and individual system details	201800.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
29	Goods	Sensors for Green House Application. All should be compatible with Sensor Training Platform & IOT Explorer mentioned above:CO2: Range: (0-2000ppm), O2 Range: (0-25%), VOC, Air Temperature& humidity, Atmospheric Pressure, Soil Moisture& Temperature, NO2, Leaf Wetness, Solar Radiation, UV Index.	272600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
30	Goods	Solar Water Pump 1HPSolar Panel 40W (36Nos) MPPT 400 TO 700V DC Operating Frequency : 30Hz to 50Hz, Protection : Dry Run , Short Circuit Maximum PV Voltage 750V DC Remote Operation through GSM module	419300.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

31	Goods	Sensors & Actuator for Irrigation Application All should be compatible with Sensor Training Platform & IOT Explorer mentioned above: Capacitive Soil Moisture & Temperature, Leaf Wetness, Solar Radiation(0-2000mw/m2), Thermal Imager Actuators :Sprinklers, Relay, Flow sensor	293500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
32	Goods	DRONE Including the Flight Controller, and a RF Sensing System that provides reliability during flight. Also It should have spraying system and flow sensor ensures accurate operations.Intelligent Operation Planning System and should have Agriculture Management Platform, User can plan operations, manage flights in real-time, and closely monitor aircraft operating status Spray System : Tank Volume minimum 8L Payload Approx 8 Kg	150000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

33	Goods	IoT based Smart Roof Top / Solar Pump system (Application Project) 1. Inverter (can be existing inverter of Solar Kit) 2. IoT based Energy Monitoring DCU with Three Phase 415 VAC input, Two RS485 MODBUS Communication Port, Local Ethernet connectivity, Four Analog Inputs (24-bit ADC, 0.1%FSR) for integration of weather sensors, SD Card Storage, Remote GSM/GPRS connectivity using Quad Band GSM/GPRS Module 3. Embedded Calculations for %CUF (capacity utilization factor), %PR (Performance Ratio) 4. SMC box with IP65 and IK10 ratings Responsive Web application for Smart Energy management system having with map view based dash board and individual system details with various energy management reports such as load profile, consumption pattern, generation pattern, %CUF (capacity utilization factor), %PR (Performance Ratio) etc.	350000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
34	Goods	Sensors for Biomedical Application All should be compatible with Sensor Training Platform ECG Sensor, Heart Rate Sensor, GSR, Temperature	90900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
35	Goods	ECG cum Heart Rate Monitor Heart Rate Display 16x2 LCD Display , Measuring Range 30-300 heartbeats per minute, Real time ECG acquisition with 200 samples/ sec 8-bit A/D	18100.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

36	Goods	Patient Health Monitoring Development Platform IoT Based Platform to measure 20 different biometric parameters and wireless sent using two connectivity options available: Wi-Fi or Bluetooth Low Energy 4.0. Data can be visualized in standalone colordisplay mode and sent to the Cloud in order to performpermanent storage or visualize and storage in real time by sending the data directly to a iPhone and Android Applications With CE/ FCC / IC CertificationsSensors Includes :SPO2 Sensor, ECG Sensor, Airflow Breathing, Blood Pressure, Glucometer, Spirometer, Body Temperature, EMG Sensor, Galvanic Skin Response, Body Position, Snore Sensor, etc.	327100.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
37	Goods	Robots used in healthcare MCU : ATMega128, 16MHzDC Power Supplies : +8.4V Charger Supply : 9V/1A Battery Power : 8.4V / 4400mAh160x128 TFT Color LCDinterfaceRC servo motors consists of 5 degree of freedom (DOF)Base: 0 to 180 o Shoulder (1 and2) : 0 to 180 o Elbow : 0 to 180 o Wrist : 0 to 180 o o Grip : 50 to 90	82200.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
38	Goods	Humanoid Intelligent Robot Control test by 32bit Embedded System Biped Robot Basic Control, Controlling Operation of Intelligent RobotOptimized Robot motion program environment using ROBO Basic and ROBO Script, High-resolution CCD camera (Robot Vision)Real Time Image Processing and Monitoring, Total Pixels : 542(H) x 492(V) (270,000pixels) Electronic Iris : PAL:1/50-1/100,000	535900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

39	Goods	IoT Data Acquisition Systems & Protocol Converters. Connectivity to Cloud (IBM, Microsoft, Amazon) 24 VDC Isolated Supply, 4 Analog Inputs (0.1% FSR), 8 Pulse Inputs (up to 1 kHz), 8 Digital Inputs, 4 Relay Outputs Ethernet IOT DAQ Wi-Fi IoT DAQ Cellular (GSM / GPRS) IoT DAQ MODBUS RTU to MODBUS TCP 24 VDC Isolated Power Supply, 4 Isolated MODBUS RTU Master Port Serial to Ethernet Serial to Wi-Fi Serial to GPRS	153800.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
40	Goods	IoT EDGE Computing Device Embedded SCADA for 500 Tags, 24 VDC Isolated Power Supply, 4 MODBUS RTU Master, 32 GB Built in SD Card, 1 Wi-Fi Port, 1 Ethernet Port, 1 GPRS Port, 4 Analog Inputs (0.1% FSR), 8 Pulse Inputs (up to 1 kHz), 8 Digital Inputs, 4 Relay Outputs	450000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
41	Goods	Cloud Based IoT SCADA 1000 Tag License for Cloud based SCADA to connect IoT Devices and IoT based Smart Systems with Device Manager, IO Server, Alarm Server, Historian and Reporter, Web Server. Cloud Hosting Services for 20 devices for 7 years	400000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
42	Goods	DC Shunt Motor DC Shunt Motor of 2.5KW220-250 V, with Mechanical Loading arrangement with aluminum casted Brake-Drum/Pulley with heat suppression facility having two nos. six inches dial type spring balances Screen protected, Horizontal foot mounted, Internal fancooled.Motor should be Strictly copper wound & confirmed to IS 4722.	30000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

43	Goods	<p>Panel for DC Shunt motor Machine Control Panel , Operating Table and Machine Mounting Arrangement• Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square(32mm*32mm) Pipe or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti.</p> <p>Control panel consists of following accessories:-</p>	19000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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44	Goods	<p>D.C. Shunt Generator DC Shunt Generator: 2.5 KW, 220V,. Self-Excited,. Insulation Class "B", Horizontal foot mounted 3 phase 5HP 440V foot mounted Squirrel cage AC Induction Motor: both machines coupled on M.S. channel of size min. 75 x 40 mm. Min. 6 mm thick on fabricated frame with coated & painted. Foundation bed shall have Suitable Anti-vibration Pads to avoid any vibrations during machine operation.Motor Performance conforms to IS:325 and dimensions conform to IS:1231, IS:8223. Degree of Protection:- Motors are designed for degree of protection IP 55 according to IS:4691Class F insulation class.</p>	43000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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45	Goods	<p>Panel for DC Shunt Generator with AC Motor Machine Control Panel, Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lapping Patti.</p> <p>Control panel consists of following accessories:- AC Side</p>	24000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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46	Goods	<p>Motor-Generator (AC to DC) DC Shunt Generator: 5 KW, 440V. Separately Excited with variac, output voltage to vary from 110V to 440 V, Class "B", Horizontal foot mounted. 3 phase 7.5 HP 415V 50 Hz foot mounted Squirrel cage AC Induction Motor: Motor Performance conforms to IS:325 and dimensions conform to IS:1231, Degree of Protection:- Motors are designed for degree of protection IP 55, Class F insulation class. M.S. channel of size min. 75 x 40 mm. Min. 6 mm thick on fabricated frame with coated & painted. Foundation bed shall have Suitable Anti-vibration Pads to avoid any vibrations during machine operation. Motor Performance conforms to IS:325 and dimensions conform to IS:1231, IS:8223. Degree of Protection:- Motors are designed for degree of protection IP 55 according to IS:4691 Class F insulation class.</p>	52000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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47	Goods	<p>Panel for Motor-generator (AC to DC) Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- AC Side</p>	30000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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48	Goods	<p>D.C. Compound Generator DC Compound Generator: 2.5 KW, 220V,. Self-Excited with variac, Class "B", Horizontal foot mounted 3 phase 5HP 440V foot mounted Squirrel cageAC Induction Motor: both machines coupled on M.S. channel of size min. 75 x 40 mm. Min. 6 mm thick on fabricated frame with coated & painted. Foundation bed shall have Suitable Anti-vibration Pads to avoid any vibrations during machine operation .Motor Performance conforms to IS:325 and dimensions conform to IS:1231, IS:8223. Degree of Protection:- Motors are designed for degree of protection IP 55 according to IS:4691Class F insulation class.</p>	45000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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49	Goods	<p>Panel for DC compound generator with AC Motor</p> <p>Machine Control Panel , Operating Table and Machine Mounting Arrangement• Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:-</p>	24000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
50	Goods	<p>DC Series Motor coupled with spring balance load fitted</p> <p>DC series Motor of 2.5KW,220V,with Mechanical Loading arrangement with aluminum casted Brake-Drum/Pulley with heat suppression facility having two nos. six inches dial type spring balances Screen protected, Horizontal foot mounted, Internal fan cooled. Motor should be Strictly copper wound &confirmed to IS 4722</p>	30000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

51	Goods	<p>Panel For DC series Motor coupled with spring balance load fitted Machine Control Panel , Operating Table and Machine Mounting Arrangement• Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylem sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:-</p>	19000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
52	Goods	<p>DC Compound Motor DC Compound Motor of 2.5 KW 220 V, with Mechanical Loading arrangement with aluminum casted Brake-Drum/Pulley with heat suppression facility having two nos. six inches dial type spring balances Screen protected, Horizontal foot mounted, Internal fancooled.Motor should be Strictly copper wound & confirmed to IS 4722.</p>	30500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

53	Goods	<p>Panel For DC Compound Motor Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- 1. Analog DC Voltmeter 0-300V</p>	19000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
54	Goods	<p>AC Squirrel Cage Motor with Mechanical Load A.C. SQUIRREL CAGE INDUCTION MOTOR 5 HP 3phase ,415v,50 Hz WITH Automatic STAR DELTA STARTER with aluminum casted Brake-Drum/Pulley with heat suppression facility having two nos. six inches dial type spring balances</p>	30000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

55	Goods	Panel For A.C. Squirrel cage induction motor Electric Control Panel as given below:AC MOTOR :- It should be A.C. 3 Phase 5 HP 415 volts, 50 Hz, Squirrel cage Induction Motor 1440RPM, TEFC, class 'F' insulation, frame 100, horizontal foot mounted. Six terminals are broughtout on terminal box.Machine Control Panel , Operating Table and Machine Mounting Arrangement• Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) orbetter type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of	18000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
56	Goods	Universal Motor MOTOR UNIVERSAL 240 VOLT, 50Hz 1 HP WITH STARTER/SWITCH UNIVERSAL MOTOR : Universal Motor Single Phase, Capacity :1 HP,230 volts A.C. / D.C.1500 RPM (O.L.)50 Hz,TEFC, class 'B' insulation, horizontal foot mounted.	14000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

57	Goods	<p>Panel For Universal Motor. Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- DC Side</p>	10000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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58	Goods	<p>Panel For Universal Motor. Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- DC Side</p>		1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
59	Goods	<p>Pillar Electric Drill Machine Pillar Electric Drill Machine Motorized:- 12-20mm capacity 1HP440V3phase induction motor with DOL Starter Bench type</p>	45000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

60	Goods	A.C. Series type Motor AC Series type Motor with Mechanical Loading arrangement with aluminum casted Brake-Drum/Pulley with heat suppression facility having two nos. six inches dial type spring balances and Electric Control Panel as given below: AC Series Motor :- Rating: 1 HP, 240 V, 50 Hz with terminals are brought out on terminal box. Insulation : Class 'B', Speed : 1500 RPM \pm 10% at full load	16000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
61	Goods	Panel For AC Series Type Motor. Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylem sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- 1. AnalogVoltmeter 0-300V	10000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

62	Goods	Manual Motor coil winding machine:- Manual Motor Coil winding machine with step arbor Manual Motor coil winding machine:- Manual Motor Coil winding machine with step arbor	6500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
63	Goods	Ceiling fan coil winding machine Ceiling fan coil winding machine :- single head ceiling fan starter automatic coil winding machine1 . head with auto layering 2. No. of memory: 19 or more programs-non volatile 3. Speed 3200rpm max (Auxiliary & main winding) 4 No. of poles 12141618 poles 5. Wire cut : S (stops) 6. Power fail: detects 7. Automatic magnetic break facility & a 4 digit electronic meter 8. Winding direction: CC & CCW 9.standard accessories wire cut defect sensor copper spool holder preventer 10. Power supply 250V Ac single phase 50Hz with speed control	43000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
64	Goods	Primary current injection set :- 220V 50Hz single phase output current 200A (min) with timer Primary current injection set :- 220V 50Hz single phase output current 200A (min) with timer FITTED ON CONTROL PANEL Operating Table and Machine Mounting Arrangement •	20000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

65	Goods	<p>Panel For Primary current injection set Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:- 1 ACAMMETER DIGITAL TYPE 200AMP-1NO 2 AC VOLTMETER DIGITAL TYPR 300 VOLT-1NO</p>	13000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
66	Goods	<p>Synchronous motor SYNCHRONOUS MOTOR 3 PHASE, 3 HP, 440V,50Hz, 4 POLE, WITH ACCESSORIES and starting/ prime mover arrangement , excitation arrangements.1. MOTOR :SYNCHRONOUS MOTOR 3 PHASE, 3 HP, 440V,50HZ, 4 POLE, WITH ACCESSORIES and starting arrangement , excitation arrangements.</p>	33000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021

67	Goods	Panel For SYNCHRONOUS MOTOR. Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material material in with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti. Control panel consists of following accessories:-	21000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
68	Goods	SPLIT PAHASE INDUCTION MOTOR 1hp,230v	30000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
69	Goods	BLDC motor with controller 15-30 watt,315v DC	4000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
70	Goods	IDU Pulse generation type motor 15 watt,230vAC	1200.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
71	Goods	Capacitor start induction motor 1hp,230v	3300.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

72	Goods	Star delta starter 2hp	2600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
73	Goods	Auto transformer starter 3hp	14000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
74	Goods	D.O.L starter 2 hp	2000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
75	Goods	Single door direct cool refrigerator carrying with HFC and HC 185 ltr	13000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
76	Goods	Frost free refrigerator 200ltr carrying with HC Blend	23000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
77	Goods	3 or 4 Door refrigerator inverter type 300ltr carrying with HC refrigerant 600a	40000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
78	Goods	Core drill machine	13000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
79	Goods	Window AC 1TR with R-22 Blend reciprocating compressor	21500.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
80	Goods	Decibel meter 30-100db	3000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
81	Goods	Refrigerant cylinder 10 kg capacity	5900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
82	Goods	Gauge manifold with gauges different sizes of hoses Different size of hoses for R-134a,R-22,R-410	1900.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
83	Goods	Display cabinet 2TR Capacity	7600.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
84	Goods	Water Dispenser Bubble type (Hot and cold) 2.5-3ltr delivery capacity/hour	7990.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
85	Goods	Package AC 5 TR Capacity air cooled type with open type reciprocating compressor	2,50,000	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
86	Goods	Bus AC tutorial model	98000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021

87	Goods	Automatic ICE cube m/c 50 Kg/hr	1,25,000	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
88	Goods	Storage type water cooler(hot and cold)	10300.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
89	Goods	Visi cooler 185ltr	85000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
90	Goods	VRV/VRF VRV / VRF unit with two indoor units 2.5 TR each and 5 TR capacity Outdoor unit complete with air cooled condenser, accessories and controls	1,20,000	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
91	Goods	Absorption system Small size	2,00,000	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
92	Goods	Button Sewing Machine	106000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
93	Goods	Sewing Machine Single Needle Lock stitch industrial Model	40000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
94	Goods	Power Tools for hexagonal scocket	70000.00	1	Public Procurement	State Financial Rules	Yes	No	Gem	National	3.3.2021		10.3.2021	17.3.2021	1month	16.4.2021
95	Training	Training of Trainer	200000.00	1	Public Procurement	State Financial Rules	No	No	Single Source	National	3.3.2021		10.3.2021	17.3.2021	1month	16.4.2021
96	Goods	E-Pathsala Projector	135000.00	1	Public Procurement	State Financial Rules	Yes	No	Gem	National	3.3.2021		10.3.2021	17.3.2021	1month	16.4.2021
97	Goods	86 inch diagonal (6 Ft X 4 Ft) touch Interactivity Full HD (1920X1080) Panel, Intel ci5 Processor, 8gGB RAM, 512 GB SSD, BT, Wi-Fi, LAN, 6 USB 3.0, windows 10 Pro. With mounting kit	4,50,000.	1	Public Procurement	State Financial Rules	Yes	No	Gem	National	3.3.2021		10.3.2021	17.3.2021	1month	16.4.2021

98	Goods	Single phase Transformer, core type, air cooled SINGLE PHASE TRANSFORMER, CORE TYPE, AIR COOLED TRANSFORMER SINGLE PHASE 1 KVA A Laboratory Type Model For Conducting Various Experiments. TECHNICAL SPECIFICATION :- Transformer Single Phase air cooled capacity 1KVA,240/415v,50hz.-The unit must be fitted in MS Box 20 SWG with side ventilation. Top of the box will be of 6mm. Bakelite sheet and the terminals of primary & secondary will be brought out with Educational type Bakelite banana type terminals 30 Amps and proper marking	8000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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99	Goods	<p>Panel For Single phase Transformer Machine Control Panel , Operating Table and Machine Mounting Arrangement • Control panel board shall consist of high grade FRP material with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the control panel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti.</p> <p>Control panel consists of following accessories:- 1. Analog0-500V MI TYPE Analog meter-1No</p>	15000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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100	Goods	Thyristor /IGBT controlled D.C. motor drive with tacho-generator feedback arrangement THYRISTOR /IGBT CONTROLLED D.C. MOTOR DRIVE WITH TACHO-GENERATOR FEEDBACK ARRANGEMENT. Motor : DC Motor rating 1 HP, 220 V. 4 Amp, 2Pole.Drive Rating: 1 Hp, 4 AmpTacho-Generator Output Voltage : 1 volt A.C. / 100 RPM (20V) Linearity : within +/- 0.5%Output Current : 20 mA Max. Internal Resistance : 45 ohm. Shaft : 8mm dia 30mm length Techo generator flexible coupled to D.C. Motor having Digital RPM meter suitable for operation upto 3000 RPM Machine Control Panel , Operating Table and Machine Mounting Arrangement •	18000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021	29.04.2021	4.05.2021	1month	3.06.2021
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101	Goods	<p>Panel For THYRISTOR /IGBT CONTROLLED D.C. MOTOR DRIVE WITH TACHO-GENERATOR FEEDBACKARRANGEMEN</p> <p>Control panel board shall consist of high grade FRP material or with relevant IS/IEC safety standards. the dimension with of size Length = 900 mm; Depth= 250 mm; Height = 750 mm. with rear of the panel will be cover with transparent sheet (removable) so that the circuit connections are visible and electrically safe with suitable locking arrangement. control panel is designed so that it can be mounted and to be fixed on a ms Frame stand rust free power coated. of suitable size of MS channel/angle/Square Pipe(32mm*32mm) or better type. via Nut bolt or any arrangement through which the panel can be removed easily. The floor height of the Frame/Stand's Top will be Min. 900 mm so that the controlpanel mounted on it shall be 900 mm from floor. The MS Stand/frame shall have suitable foundation arrangement. The working area arrangement shall be fitted on front top side of the Stand/frame. The Working area shall be of Minimum dimensions as Length = 900 mm and Width = 300 mm and shall be made of Minimum of 12 mm plywood fitted with Minimum 3 mm hylam sheet on top. The three sides of the working top should be lipped using suitable lipping patti.</p> <p>Control panel consists of following accessories:-</p>	20000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021
102	Service	Wifi for Trainees	500000.00	1	Public Procurement	State Financial Rules	No	No	Open Tender	National	30.03.2021		29.04.2021	4.05.2021	1month	3.06.2021