



सत्यमेव जयते



**MSME-TECHNOLOGY DEVELOPMENT CENTRE
(PROCESS AND PRODUCT DEVELOPMENT CENTRE, AGRA)**

Ministry of MSME, Govt. of India

Foundry Nagar, Agra

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Email: info@ppdcagra.in

TENDER NOTICE (E-Tender)

The tenders are invited under double bids system from interested manufacturer/Suppliers/Dealers for procurement of machinery/ equipment for the Institute.

The details of specifications, tender document, EMD etc, can be downloaded from central Public Procurement Portal (www.eprocure.gov.in/eprocure/app) & www.ppdcagra.dcmsme.gov.in. The last date of submission is 24.07.2021 by 12:00 P.M and to be opened on 26.07.2021 at 2:00 P.M at PPDC-Agra.

PRINCIPAL DIRECTOR

MSME-TECHNOLOGY DEVELOPMENT CENTRE
(Process & Product Development Centre)
Govt. of India Organization
Under
Ministry of Micro Small and Medium Enterprises
Foundry Nagar, Agra - 282006

NOTICE INVITING e-TENDER

MSME - Technology Development Centre, Ministry of MSME, Government of India, invites online bids under two bid systems (i.e. Technical e-Bid and Financial e-Bid) for supply of Machinery Items. The e-Bid shall be submitted online on www.eprocure.gov.in. The Tender is available on www.ppdccagra.dcmsme.gov.in. No hard copy of Bids shall be accepted in the office. All prospective Bidders may visit www.eprocure.gov.in. (Bidder's manual kit) before online submission of e-Bid.

TERMS AND CONDITIONS:

1. GENERAL

MSME- Technology Development Centre (PPDC), Agra, invites e-bids under Two Bid systems (Technical and Financial Bid) from Reputed Machinery Suppliers.

2. DETAILS OF e-BID:

Sr. No.	Particulars	Details
1.	Bid Reference	E-Tender No. PPDC/Machinery Items/2021-22
2.	Last Date and Time of receipt of Bid	24 th Jul 2021 by 12:00 PM
3.	Date and Time for opening of Technical Bid	26 th Jul 2021 by 2:00 PM
4.	Place of receiving the bid / communication	MSME-Technology Development Centre, (PPDC) Foundry Nagar, Agra-282006
5.	EMD	Rs 170,000/- for IoT and Automation Lab Equipments. (Account Payee Demand Draft / Bankers Cheque) in favour of "Principal Director", PPDC, Agra
6.	Financial bid opening	Will be opened on same day on 26 th Jul 2021, after evaluation of Technical Bids.
7.	Tender Fee	Rs. 1000/- Non-Refundable (Account Payee Demand Draft / Bankers Cheque) in favour of "Principal Director", PPDC, Agra

3. SUBMISSION OF e-BIDS:

- a) E-Bids are invited in two Bid System. (1) Technical and (2) Financial and shall be submitted electronically (online) on www.eprocure.gov.in for supply of Machinery Items.
- b) E-Bids shall be submitted on or before last date 24th Jul 2021. **No Hard Copy of Bids will be accepted.**
- c) EMD of each Machinery Item given in the list of Machinery with Specification. in form of account Payee Demand Draft, Bankers Cheque in favor of “Principal Director”, PPDC, Agra, payable at Agra, shall be submitted in the office **before last date and time of submission**. The e-bids will be opened only those who have submitted EMD's on or before the schedule date and time. Technical e-Bids of all the received tender will be opened on pre scheduled date, time & venue.

4. ELIGIBILITY / QUALIFICATION CRITERIA FOR TECHNICAL BID

1. The Bidders shall have supplied similar type of goods/instrument/machines to any Govt. / Autonomous/reputed organizations. Recent Purchase orders are to be enclosed.
2. Tender fees & EMD as stated above shall be submitted. If those claim for Exemption should be provide Valid MSME / NSIC Certificate Relevant to Product to be apply.
3. All the bids will be evaluated purely on the basis of technical ground/ technical compliance statement by bidder, acceptance of payment terms, delivery terms, PBG clause, guarantee/ warranty clause, Training, Installation, calibration certification/ documentation, Inspection clauses check list & any Govt. policies/guidelines as & when applicable. The price/financial bids of only technically qualified/accepted bidders will be opened.
4. Country of Origin of Product apart from India, decision of acceptance of bid will be taken as per GFR guideline. Bidders should enclose the country of Origin certificate along with Tender documents.

GENERAL CONDITIONS/INSTRUCTIONS:

1. Bidders are advised to read & study the complete Tender documents carefully. Submission of Tender shall be deemed that bidder has read and understood all the terms & conditions of the tender and its implications and agrees and binds himself/themselves to the same. All pages of tenders should be signed by bidder and return with Technical Bid.
2. The bid should be submitted in three envelopes i.e (i)Tender Fees, EMD & Checklist as per Annexure II, (ii) Technical Bid with all terms & conditions, documents & catalogs etc (iii) Price/Financial bid
3. Tender/Offer/Bids should be in English language only and it should be valid as per Bid validity from the date of opening of tender and will be binding on you for specifications offered & the rate quoted. Rate must be quoted correctly & precisely in words as well as in figure along with currency.
4. Tender should be submitted only by the Original Equipment Manufacturers (OEM) / authorized dealers/representatives.
5. Technical Bid should contain of Technical compliance statement, catalogs, details technical literature, authority letter given by OEM, Letter of Bid etc with Tender number, name of item.
6. All other charges should be clearly mentioned otherwise offer will be deemed as Inclusive of all other charges. No hidden charges will be accepted after opening of financial bid.
7. The technical compliance statement as per Annexure I shall be duly filled signed & stamped by manufacturer or his authorised and responsible person of bidding firm as a noting and acceptance & shall be binding on you during the course of supply and upto completion of contract.
8. Technical Literature / Catalogues / Brochures, technical data sheet etc. for the particular quoted models should be enclosed to technical bid.
9. All tenders pages/Quotations should be properly typed and free from over-writing. Erasing, correction or additions etc. must be attested by authorized signatory.
10. Bidders should furnish their Bankers details, GST Registration number, HSN / SAC code, PAN no. etc.
11. Bidder should furnish the valid authority letter issued by OEM for quoting on his principal behalf.
12. Incomplete offer not in line with the terms & conditions, instructions of the Tender documents and offer received by fax or after due date & time will not be considered and liable to be rejected.

13. List of standard Accessories associated with the basic machine / instruments / goods should be properly described along with technical bid and cost of all standard and associated accessories should be included in basic machine cost.
14. Bidder shall specify whether the basic items quoted are capable to meeting the required specifications as per PPDC's technical requirement or any additional/optional & essential accessories are required. If required, then bidder should specify list of standard/essential/additional/optional accessories and list should be enclosed with technical bid for proper evaluation & prices should be indicated separately in Price Bid.
15. All the clauses governing the Tender documents and the Important Notice attached should be duly filled in & stamped & signed by authorised person of bidding firm.
16. PPDC, Agra reserve the right to seek clarification/ justification from the bidders on the offered technical specifications & the bid price in case the PPDC, Agra deems it necessary based as the justification provided by the bidder, if the PPDC, Agra feels that the price is unrealistic/infeasible in order to. PPDC, Agra reserves the right to reject the said bid. The bidders shall be governed by the decision of the client.
17. PPDC, Agra reserves the right to reject any or all offers without assigning any reason whatsoever. PPDC also reserves the right to accept any tender in whole or in part without assigning any reason whatsoever. Opening of tender is no commitment whatsoever and does not prejudice the aforesaid rights of the PPDC to reject any or all offers without assigning any reason or accept any tender in whole or in part without assigning any reason whatsoever.

Payment terms:

18. Advance payment terms are not acceptable, Payment will be provided after successful installation.
19. Mere participation in the tender and offering of lowest rates does not confer any right on any party for placing order on them.
20. All the disputes arising out of the contract shall be subject to Agra (UP) India Jurisdiction only.
21. Parties are required to affect supplies, commission and install the machinery/equipment/items at various locations and extend/maintain warranty/guaranty commences from the date of completion of installation/commissioning and training.
22. All the matters concerned to and not covered herein above, the decision of Principal Director, PPDC, Agra shall be final and binding on the parties.
23. The equipment offered shall be strictly conforming to specification or better and for complete unit correct accuracies and standard.
24. The Principal Director, PPDC, Agra reserves the option of inspecting the goods by our own representative at suppliers works prior to Packing and Dispatch or by third party appointed by us. However the supplier should furnish the inspection report of the

equipment prior to inspection by PPDC representative. Supplier shall provide all facilities for carrying out the inspection. However the final inspection will be carried at PPDC, Agra. Inspection Charts and guarantee certificate of quality should be provided along with the material.

25. Training either at suppliers work or at any other place shall be to the suppliers account.
26. Supplier must enclose in technical bid their offer list of customer (with their full address and their purchase reference no.) to whom they have made similar supplies in the past five years. The date of supply should also be indicated.
27. The supplier should also mention the nearest service Centre of the equipment/machines for servicing/repairing after commissioning.
28. The equipment should be complete in all respect.

Guarantee:

1. The supplier shall furnish guarantee in respect of material and manufacturing defect in machine/equipment, performance at least for period of 12 months (one year) from the date of commissioning and installation, Any defect notified during this period shall be rectified free of cost which include replacement of part or in full as needed.

Bid Validity:

Bids should be valid for minimum 90 days from the date of opening of tender and will be binding on you for specifications offered & the rate quoted. Rate must be quoted correctly & precisely in words as well as in figure along with currency.

Late delivery charges:

1% per month to a maximum of 5% of the order value for any delay beyond agreed delivery schedule from the date of Purchase Order. PPDC reserve the right to cancel the order or a part thereof in case of delay beyond the 3 months forfeiting the EMD.

Termination of Contract:

On acceptance of tender, if the successful bidders is failure to deliver the goods within the accepted delivery period or as extended or at any time repudiates the contract before the expiry of such period the purchaser may without prejudice to their other rights may cancelled the contract.

Purchase Preference Policy Linked with Local Content (PP-LC) As per Revised Order 2017 Dates 04.06.2019.

Under the purchase Preference Policy linked with Local Content (PP-LC), the bidder or service providers are allowed to avail the purchase preference linked with attaining stipulated Local Content.

Tender Inviting Authority reserves the right to allow the bidders or manufacturers or service providers, purchase preference as admissible under the Public procurement (Preference to make in India), Order 2017-Revision policy, subject to their complying with the requirements/conditions defined herein and submitting documents required to support the same.

Local Content: Local content means the amount of value Added in India which shall unless otherwise prescribed by the nodal ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

The bidder claiming the PP-LC benefit shall be required to furnish a self-certification on bidder's letter head indicating percentage of local content and confirming that the item offered meets the local content requirement for "class I local bidder /Class II local bidder" as the case may be and this undertaking shall be certified by the authorized signatory of the bidder signing the bid giving the details of the locations at which the local value addition is made.

The onus of submission of appropriately certified documents lies with the bidder and the purchaser shall not have any liability to verify the content and will not be responsible for the same.

However, in case the procuring authority has any reason to doubt the authenticity of the local content, it reserves the right to obtain the complete back up calculations before award of order failing which the bid shall be rejected.

False declarations will be in breach of the code of Integrity under Rule 175(1)(i)(h) of the General Finance Rules for which a bidder or its successors can be debarred for up to two years as per rule 151(iii) of the General Finance Rules along with such other actions as may be permissible under law.

CALCULATION OF LOCAL CONTENT-GOODS (Below Calculation is indicative only) for detail rule, order no P-45021/2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce and Internal Trade (public procurement section) may please be referred.

Total Basic Cost of Goods/Machine (W.O. Tax) = a.

Total value of all the imported content used in construction of above Machinery/Goods (Including custom duty) = b

% Local Content= $((a-b)/a) \times 100$

(OFFICE SEAL)

(SIGNATURE OF AUTHORIZED PERSON)

NAME :

DESIGNATION :

DATED :

PART – II

ANNEXURE-II

(To be submitted by Bidder on Letter head along with Technical Bid)

Declaration of Local Content by Bidder

Name of Bidder :

Name of Machine / Model :

Manufacturer of Machine :

I/ We hereby declare that in above quoted Machine / Goods, Local Content is-----

% as per order no P-45021 /2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce and Internal Trade (public procurement section) Govt. of India.

(Signature of the Bidder, with Official Seal)

PART-I

ANNEXURE-II

(To be submitted by Bidder on Letter head along with Technical Bid)

Certificate regarding Compliance of GFR Rule 144(xi)

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that This/My/Our firm is not from such country or, from such country, has been registered with the Competent Authority. I hereby certify that this firm fulfills all requirements in this regard (GFR rule No. 144-xi) and is eligible to be considered. (Where applicable valid registration certificate by the Competent Authority to be attached)

(Signature of the Bidder, with Official

Seal) Name of Firm :

(Letter of Bid)

(To be print on bidders letter head)

To,

The Principal Director,

MSME Technology Development Centre (PPDC) Agra,

Foundry Nagar, Agra – 282 006.

Dear Sir,

I / We agree, on acceptance of the tender in whole or in part, to supply to MSME TECHNOLOGY DEVELOPMENT CENTRE, AGRA (Process and Product Development Centre), Agra 282 006, India the machine / equipment / goods and accessories, detailed in Technical Bid (Part-I) of the Tender enclosed herewith at prices quoted by me / us in Price Bid (Part-II) of the Tender which is also enclosed herewith in a sealed cover marked Price Bid (Part- II)'. I / We agree to hold the offer open for 90 days from the due date. I / We have read and understood the terms and conditions of the tender documents which shall become Contract on acceptance of tender, and agree to be governed by the same. I / we specifically undertake that I / We will not resile from my /our offer or modify the terms and conditions thereof

Authorized Signature & Seal of Tenderer

Place :

Name :

Date :.....

Designation :.....

WITNESS Name & Address of the

firm : Signature :

Name :

Designation:

Name & Address of the firm:

ANNEXURE-III

BIDS FROM DEALERS/AGENTS WITHOUT LETTER OF AUTHORITY FROM THE ORIGINAL EQUIPMENT MANUFACTURERS ARE LIABLE TO BE SUMMERILY REJECTED.BIDS NOT ACCOMPANIED BY EMD SHALL BE REJECTED.

CHECK LIST

(to be duly filled by bidder & to be submitted along with Technical Bid)

S.No.	Particulars	Answer Ref.Page
1.	Have you submitted Earnest Money Deposit (EMD)	Yes/No
2.	Have you furnished a authority letter from OEM	Yes/No
3.	Have you returned/submitted tender documents duly filled, Yes/No signed stamped by authorized person of bidding firm	Yes/No
4.	Have you furnished catalogues/ Boucher of quoted items	Yes/No
5.	Have you furnished bankers details/ GST/HSA/SAC/PAN no. etc	Yes/No
6.	Have you furnished technical specifications compliance statement	Yes/No
7.	Have you quoted delivery period correctly and precisely	Yes/No
8.	Have you kept your offer valid for 90 days	Yes/No
9.	Have you quoted your rates in figure and words (in price bid)	Yes/No
10.	Have you agreed for PBG clause	Yes/No
11.	Have you agreed for payment clause	Yes/No
12.	Have you agreed for warranty/Inspection/Training clause	Yes/No
13.	Have you agreed for calibration certification/documentation clause	Yes/No
14.	Have you provided list of customers alongwith purchase order to whom Model/Items have been supplied. (Pl. Encl. P.O. copy to Tech. Bid.)	Yes/No
15.	Have you agreed for arbitration clause	Yes/No
16.	Have you provide details of country of origin of item, Yes/No Gross/Nett weight of shipment, Dimensions of shipment (LxHxW), Name & complete address of firm for order placement etc	Yes/No


Technical Specification of IoT & Automation Lab Equipments:

Sl No	PPDC Requirement			Supplier Specification
	Requirement	Specification	Qty	
1	PLC and HMI Kit (Siemens)	<ol style="list-style-type: none"> 1. PLC - 5 D/I and 5 D/O, 2. Memory - 500 KB for program and 3 MB for data. 3. HMI - 8 Inch (Siemens Make) 4. Input & Output – Digital and Analog 5. Cloud connection – Required. (Licensed Version of MQTT/Profinet) 	05 nos	
2	Servo Drive Kit	<ol style="list-style-type: none"> 6. Output Power: 7.0 KW, 7. Output Current: 13.20 A, 8. Input Voltage: 380 to 480 V (+10 % -15 %) 9. Input Phase: 3 - Phase, 10. PLC to Drive Communication – Required along with communication Cable 	02 nos	
3	Vision Sensor Kit (Siemens / Omron)	<ol style="list-style-type: none"> 1. USB / RS 232, Bluetooth interface, 2. Min distance - 1.9 inch, Max distance - 14.8 inch, 3. PLC and HMI Interface – Required along with communication Cable) 4. HMI – 8 Inch 	01 no	
4	Sensor and controlling kit	Type - PNP/ NPN <ol style="list-style-type: none"> 1. Metal 2. proximity Digital 	05 nos	
5	Analog sensor kit	<ol style="list-style-type: none"> 1. Color sensor - Max 2500 nm wavelength, 2. Temperature Sensor (3 wire, 10-24 V DC) 3. pressure sensor (3 wire, 10-24 V DC) 4. Ultrasonic Sensor – 24 V DC 	02 nos	
6	Basic Electrical and safety Kit	<ol style="list-style-type: none"> 1. MCB – 2 pole and 3 pole 2. MCCB – 3 Pole 150 Amps. 	02 nos	

		<ol style="list-style-type: none"> 3. ELCB – 3 Pole 230 V 4. Digital and analog inputs – Push Button, Selector Switch, Potentio Meter, Limit Switch, Proximity Switch. 5. Digital and analog Outputs – Indicators (RYB), Relays, Contactors and Signalling Column. 		
7	AC Drives with Motor	<ol style="list-style-type: none"> 1. Motor - 5 HP, 3 Phase 2. communication module - PC to controller with Cable 3. Modbus Communication 	02 nos	
8	Six axis Robot (Kuka/Fanuc)	<ol style="list-style-type: none"> 1. Type -Vertical, 2. Capacity -6 kg payload, 3. Min reach 726 MM, 4. 53 Kg weight, 5. PLC Interface – Required with Cables 	01 nos	
9	Industrial IOT Controller (Siemens/Phoenix)	<ol style="list-style-type: none"> 1. Ethernet port, 2. DDR3 RAM, 3. 8 MB FLASH, 4. 10/100 com port speed, 5. SD Card, MQTT Support 	02 nos	
10	PLCnext Technology Training Kit (Phoenix)	<ol style="list-style-type: none"> 1. PLCnext Control AXC F 2152 2. Voltage Switch 3. Digital Input and output Module 4. Proficloud License with 8760 unit credit 5. Analog Input and Output Module 6. Potentiometer 7. Switch Module 8. Power supply Unit 9. Patch Cable 	01 no	
11	Electro Pneumatic Training Kit (Festo/SMC)	<ol style="list-style-type: none"> 1. Trolley (Aluminum Channel) with frame & caster wheels with Brake (Load capacity: 400 Kg) - 1 no 2. Compressor (50 LPM, 8 Bar, 24 Liter Tank Capacity) – 1 no 3. Single acting cylinder 	02 nos	



- (Stroke: 50 mm, with One Way Flow Control Valve) – 1 no
4. Double acting cylinder (Stroke: 200mm, with One Way Flow Control Valve) – 3 nos
 5. Two Pressure Valve – 2nos
 6. Shuttle Valve – 3 nos
 7. Quick Exhaust Valve – 1 no
 8. Three Way Two Position Knob Operated Direction Control Valve (NC Type) - 2nos
 9. Three Way Two Position Roller Operated Direction Control Valve (NC Type) – 2 nos
 10. Three Way Two Position Pilot Operated Direction Control Valve (NC Type) – 1 no
 11. Three Way Two Position Solenoid Operated Direction Control Valve (NC Type) – 1no
 12. Push Button 3 Port Valve (NC Type) – 1 no
 13. Five Way Three Position Lever Operated Direction Control Valve – 1 no
 14. Five Way Three Position Double Solenoid Direction Control Valve – 1 no
 - Five Way Three Position Double Pilot Direction Control Valve – 1 no
 16. Five Way Two Position Single Pilot Direction Control Valve – 1 no
 17. Five Way Two Position Double Pilot Direction Control Valve – 3 nos
 18. Five Way Two Position Lever Operated Direction Control Valve – 1 no
 19. Five Way Two Position Single Solenoid Direction

		<p>Control Valve – 1 no</p> <p>20. Five Way Two Position Double Solenoid Direction Control Valve – 4 nos</p> <p>21. Three Way Two Position Time Delay Valve – 2nos</p> <p>22. Pneumatic motor – 1 no</p> <p>23. Two way Flow control valve – 1 no</p> <p>24. Vacuum generator with Vacuum clamp – 1 no</p> <p>25. FRL Unit (Filter Regulator & Lubricator) – 1 no</p> <p>26. Pressure Regulator – 1 no</p> <p>27. Pressure Switch with Digital set point – 1 no</p> <p>28. Pressure Line Manifold – 1 no</p> <p>29. Isolator Block – 1 no</p> <p>30. Electrical Control Panel 1 Set as per DIN standard – 1 no</p> <p>31. Proximity Sensors (Test Voltage 30 V DC max) – 12 nos</p> <p>32. Quick Push Pull connector – As Required</p> <p>33. Plastic Tubing (PU6) – As Required</p>		
12	<p>Electro Hydraulic Training Kit</p>  <p>The image shows an electro-hydraulic training kit. It consists of a main control panel on a trolley with a digital display and various gauges. To the left, there is a separate trolley with a rack of hydraulic hoses. The main panel has a control knob and several indicator lights.</p>	<ol style="list-style-type: none"> 1. Trolley (Aluminum Channel) with frame & caster wheels with Brake (Load capacity: 400 Kg) 2. Hydraulic tank with 30 Litre capacity, Oil cleanliness: Level 8 (With suction filter and return line filter) – 1 no 3. Variable Frequency Drive for studying pump characteristics – 1 nos 4. Three Phase flange mounted electric motor 2 HP -1500 rpm – 1 no 5. Push to read 	02 nos	

		<p>Pressure Gauge Isolator – 1 no</p> <p>6. Vane Pump (Flow Rate: 6 LPM, Max Pressure: 140 Bar) – 1no</p> <p>7. Hydraulic Motor Bidirectional – 1no</p> <p>8. Pressure Relief Valve (Direct operated relief valve) – 2 nos</p> <p>9. Flow Control Valve (Non Pressure Compensated) with Check Valve – 2nos</p> <p>10. Flow Control Valve (Pressure Compensated) with Check Valve – 1no</p> <p>11. Pressure Sequence Valve - 1no</p> <p>12. Pressure Reducing Valve -1 no</p> <p>13. Four way Two position manually operated direction control valve – 1 no</p> <p>14. Four way Three position manually operated direction control valve – Tandem Center – 1 no</p> <p>15. Four way Three position manually operated direction control valve – Closed Center – 1 no</p> <p>16. Single Acting Cylinder (Stroke: 100mm, Dia: 25mm, Test Pressure: 70 Bar) – 1 no</p> <p>17. Double Acting Cylinder (Stroke: 200 mm minimum Test Pressure 130 Bar) – 2 nos</p> <p>18. Check Valve Direct Operated – 1 no</p> <p>19. Single Pilot</p>		
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		<p>Operated Check Valve – 1 no</p> <p>20. Needle Valve – 1 no</p> <p>21. Pressure Switch – 1no</p> <p>22. Four Way Three Position Double solenoid operated direction control valve – 3 nos</p> <p>23. Four Way Two Position Single solenoid operated direction control valve – 1 no</p> <p>24. Proximity Sensors (Test Voltage 30 V DC max) – 8 nos</p> <p>23. Electrical control panel with all safety precautions and 230 Volts short circuit protection safety as per DIN standard – 1 no</p> <p>24. DC Power supply with modulator and rectifier – 1no</p>		
13	IoT Sensor	LDR Module	25 nos	
14	IoT Sensor	IR Sensor Module	25 nos	
15	IoT Sensor	MQ-5 Smoke Detector Sensor Module	25 nos	
16	IoT Sensor	Puls Sensor Module	25 nos	
17	IoT Sensor	Heartbeat Detector sensor Module	25 nos	
18	IoT Sensor	Carbon Monoxide Sensor MQ-7 Module	25 nos	
19	IoT Sensor	Current Sensor - ACS712 -5 AMPS Module	25 nos	
20	IoT Sensor	Voltage sensor-230AC	25 nos	
21	IoT Sensor	Sound Sensor Module	25 nos	
22	IoT Sensor	Vibration Sensor Module	25 nos	
23	IoT Sensor	Flex Sensor Module	25 nos	
24	IoT Sensor	Alcohol Detector Sensor MQ-303A module	25 nos	
25	IoT Sensor	MQ-2 Gas	25 nos	
26	IoT Sensor	Bio Metric Sensor module	10 nos	
27	IoT Sensor	DHT-11 Sensor Module	25 nos	
28	IoT Sensor	HCSR-04 Sensor Module- Ultrasonic Sensor Module	25 nos	
29	IoT Sensor	ADX-335 Module	25 nos	
30	IoT Sensor	PIR Sensor Module	25 nos	

31	IoT Sensor	Trpale Axis Magnetometer R Breakout-HMC5883L	25 nos	
32	IoT Sensor	Flam Sensor	25 nos	
33	IoT Sensor	Force Sensor Module	25 nos	
34	IoT Sensor	Metal Detector Module	25 nos	
35	IoT Sensor	TSOP 1738	25 nos	
36	IoT Board	Node MCU	25 nos	
37	IoT Board	Arduino Mega2560	20 nos	
38	IoT Board	Arduino UNO R3 Board	25 nos	
39	IoT Board	Raspberry Pi 4 Model-B with 8 GB RAM	30 nos	
40	IoT Board	Raspberry PI-3B+ Model element14)	15 nos	
41	IoT Board	Arduino MKR WAN 1300 (LoRa connectivity)	10 nos	
42	IoT Board	Linkit One (GPS, GSM, GPRS, WiFi, and Bluetooth.)	10 nos	
43	IoT Board	FLORA - Wearable electronic platform: Arduino-compatible - v3	20 nos	
44	IoT Board	Intel Edition Breakout	10 nos	
45	IoT Cemara	CMOS IR Cemara Module-728X488 for Rpi	10 nos	
46	IoT Communication Module	Zig-bee Module : XBee3 PRO,2.4 Ghz ZB 3.0, U.FL Ant, SMT	10 nos	
47	IoT Communication Module	LoRA Module & Gateway: Supports RPI 4/3B+ & Arduino Base on sx1301 + 2 * SX1257 10 programmable parallel demodulation paths	05 nos	
48	IoT Communication Module	Siemens Simatic IoT 2040 Complete kit Setup	02 nos	
49	IoT Communication Module	ESP8266-01	25 nos	
50	IoT Communication Module	RF Encoder and Decoder	25 nos	
51	IoT Communication Module	RF Module TX & RX 315 MHz	25 nos	
52	IoT Communication Module	HC05 Bluetooth Module	25 nos	
53	IoT Communication Module	RFID Reader & Tags (IC Card Sessor)	10 nos	
54	IoT Communication Module	GPS Module For microcontroller and Micro Processor	10 nos	
55	IoT Communication Module	Arduino UNO Ethernet shield	25 nos	
56	IoT Communication Module	GSM For microcontroller and Micro Processor	10 nos	
57	Display	Raspberry pi touch screen 10 inch	30 nos	
58	Actuator	DC Motor 5V & 24V DC	25 nos	
59	Actuator	BO Motor 300 RPM, Single Shaft	25 nos	
60	Actuator	Stepper Motor 5 V and 24 V DC	10 nos	
61	Actuator	Servo Motor 5 V and 24 V DC	10 nos	
62	Actuator Driver	L2938 Motor Driver	25 nos	

63	Switch	4 Chennal Relay	10 nos	
64	Switch	Single Chennal Relay	25 nos	
65	IoT	FTDI Board	25 nos	
66	Accessory	Solderless Bread Board : 2000 Points +	25 nos	
67	Accessory	Single Stand Wire	300 nos	
68	Accessory	Resistor, 330ohm, 770ohm, 1k, 10K, 1M	500 nos	
69	Accessory	LED, Red, White, Yellow	300 nos	
70	Accessory	Buzzer	25 nos	
71	Accessory	USB Cable	25 nos	
72	Accessory	(V Battery + CAP	25 nos	
73	Accessory	Soldering IRON + Paster + Soldering wire & desoldering tool	05 nos	
74	Accessory	Multimeter Digital (Fluke / Innova / Etekcity)	05 nos	
75	Accessory	Wire Steeper	25 nos	
76	Accessory	SD card 16 GB, Class 10	50 nos	
77	Accessory	HDMI to VGI Cable	35 nos	
78	Accessory	Arduino Case	25 nos	
79	Accessory	Power Adopter (5V , 12V , 24 V DC)	100 nos	
80	Accessory	Raspberry PI-3 Case	30 nos	
81	Actuator Driver	Motor Driver Hat : Resberry Pi	10 nos	
82	IoTBoard	Raspberry Pi Zero W (Wireless) With In-Built Wifi and Bluetooth	30 nos	