



NOTICE INVITING TENDER
FOR SETUP OF LABS AND PROCUREMENT OF EQUIPMENTS FOR CRISP
CENTER

Ref.No. : CRISP/CENTER/LAB SETUP/2023-24/1559

Dated: 08.01.2024

DETAILS OF TENDER NOTIFICATION

CRISP is an Autonomous Organization established under the Indo-German Technical Cooperation. Tender from eligible Service Providers/Manufacturers/ Authorized Dealer for the Setup of Labs and Procurement of Various Equipments for CRISP Center.

#	Particulars	Requirements
1.	Application fee for submission of the Bid (Non-Refundable)	: Application fee (Rs.5000/--) (Rupees Five Thousand. only) (in the form of a DD in favour of CRISP Society, Bhopal, payable at Bhopal.)
2.	Amount of EMD (DD in favour of "CRISP Society, Bhopal", payable at Bhopal.	: EMD - Rs. 2,00,000/- (Rupees Two Lakh only) (in the form of a DD in favour of CRISP Society, Bhopal, payable at Bhopal.)
3.	Date of issue of tender document	: 08th January, 2024 at 12:00 Hrs.
4.	Last date for receipt of completely filled documents	: 16th January, 2024 at 13:00 Hrs. (Tender Box placed at the Reception Counter at CRISP, Bhopal).
5.	Date and time of opening of the Tender (Technical Bid)	: Technical Bids shall be opened on 16th January, 2024 at 15:00 Hrs. Conference Hall, Old Admin Building, at CRISP Bhopal
6.	Date and time of opening of Tender (Financial Bid)	: Shall be conveyed separately, only for the Technically qualified bidders.
7.	Site Visit for Measurement and other requirements	: 09.01.2024 to 12.01.2024 Please contact for Site Visit : 9329219283 (Mr. Prakash Hundi)

Note: *In case the said date(s), happen to be a holiday for any reason, the activity will be held on the immediate next working day at the same time & place and, as a consequence of any change(s) in the date(s) of the subsequent activities, all concerned shall be informed over the phone or through email ID.

Selection of the Bidder shall be at the sole discretion of Director CRISP, Bhopal exercising the right to accept or reject any or all the bids without assigning any reasons therefor.

Director
CRISP, Bhopal

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Dated: 08.01.2024

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Annexure-I**NOTE FOR GUIDANCE / COMPLIANCE:**

1. CRISP, Bhopal invites sealed sealed tenders on **two bid system** for the below mentioned work /Procurement are invited from the eligible Vendor/ Authorized Dealer/ Contractor.
2. The rate that you would mention against an item should be the bare cost exclusive of Taxes/ customs / excise duty / VAT/ GST etc.
3. Work Completion / Delivery period quoted for an item shall have to be strictly adhered.
4. Your offer shall be subject to the fulfillment of various terms and conditions mentioned in **ANNEXURE - VI**.
5. Each bid shall be kept in separate sealed cover (sealed by adhesive tape at both ends of the cover as also on the back of the envelope where there are 2 or more joints).
6. The envelope containing bids shall then be kept in one single envelope to be sealed in the same manner as pointed out in Sr. No. 5 above.
7. Every envelope should be superscribed with "SETUP OF LABS AND PROCUREMENT OF EQUIPMENTS FOR CRISP CENTER. as per NIT No. Ref.No. : CRISP/CENTER/LAB SETUP/2023-24/1559 Dated: 08.01.2024.
8. Each page of the bids including the annexures shall be signed by the bidder.
10. Please also give the following details of your establishment mention in Annexure-II:-
 - (i) Full postal address of the vendor
 - (ii) Name, address, mobile no. & telephone no. of the vendor or his authorized representative for contact.
 - (iii) Name and address of the Owner / Director of the Firm with his contact no. etc. Mentioned in Annexure-II.
11. All the conditions contained in the **Mandatory Documents attached as Annexure-III shall be complied by the bidder. FAILURE** in compliance of any of the Terms contained in Annexure -III, VI, **SHALL RENDER THE BID UNSUCCESSFUL.**
12. Delay in the delivery of the consignment shall attract a penalty as per ANNEXURE-VI Clause-5. For calculation of penalty TAXES AND OTHER CHARGES shall not be included.
13. Any lapse on the part of the bidder in the matter of non-compliance of any conditions contained in **Annexure -I to Annexure - IX** shall render the Bid unsuccessful. This may please be noted.
14. The bidder should submit an original copy of Undertakings on Company/Firm Letter head mentioned in the tender, **Annexure-VII** and VIII, duly self-attested by authorized signatory.
15. Quantity mentioned in the tender document is indicative only and orders shall be placed subject to actual requirement. CRISP reserve the right to increase or decrease the quantity specified in the tender.

**Director
CRISP, Bhopal**

Annexure-II**BRIEF DESCRIPTION OF THE BIDDERS**

S. No.		
1.	Name of the Firm	
2.	Contractor License / Manufacturers authorization	
3.	Name(s) of Owner/ Partners/ Directors	
4.	Firm Registration No. & Date	
5.	Full particulars of office	
	(a) Address	
	(b) Telephone No.	
	(c) Mobile No.	
	(d) E-mail address	
6.	PAN No.	
7.	GST No.	
8.	Details of Tender Fee:	
	(a) Amount	
	(b) DD No. and Date	
	(c) Drawn on Bank with name of its	
9.	Details of Earnest Money Deposit:	
	(a) Amount	
	(b) DD No. and Date	
	(c) Drawn on Bank with name of its	
	(d) Valid Upto	
10.	Authorized person contacts details	
	(a) Name	
	(b) Address	
	(c) Mobile No.	
	(d) Email ID	

Annexure-III**ELIGIBILITY CRITERIA**

S.N.	Particular	Submitted (Yes/No) *
1.	Application fee (Rs.5000/--) (Rupees Five Thousand. only) (in the form of a DD in favour of CRISP Society, Bhopal, payable at Bhopal.)	
2.	EMD - Rs. 2,00,000/-(Rupees Two Lakh only)(in the form of a DD in favour of CRISP Society, Bhopal, payable at Bhopal.)	
3.	<p>Submitted similar nature previous 03 Nos. Work orders as below mentioned criteria:</p> <p>Successful completion as main supplier within the last THREE (3) years, of at least One (1) contract valued at INR 90 Million (INR 9.0 Crore) with nature, and complexity similar to the scope of supply. The bidder also needs to attach satisfactory Installation report for the same work order and locations of Installations. The committee members may visit the locations shared by Bidders to check the actual performance of Machinery and equipment at employer's cost</p> <p>Or</p> <p>Successful completion as main supplier within the last THREE (3) years, of at least Two (2) contract valued at INR 58 Million (INR 5.8 Crore) with nature, and complexity similar to the scope of supply. The bidder also needs to attach satisfactory Installation report for the same work order and locations of Installations. The committee members may visit the locations shared by Bidders to check the actual performance of Machinery and equipment at employer's cost</p> <p>Or</p> <p>Successful completion as main supplier within the last THREE (3) years, of at least Three (3) contract valued at INR 40 Million (INR 4.0 Crore) with nature, and complexity similar to the scope of supply. The bidder also needs to attach satisfactory Installation report for the same work order and locations of Installations. The committee members may visit the locations shared by Bidders to check the actual performance of Machinery and equipment at employer's cost</p>	

5.	<p>Submission of audited financial statements for the last three (3) years (2019- 20, 2020-21 and 2021-22) to demonstrate the current soundness of the Bidder's financial position. Bidder can submit the financial assessment (unaudited) for the year ended on 31 March 2023 with CA's letter and GST3RB submission report for complete period of that financial year (2022-23)</p> <p>Minimum average annual turnover (Gross - inclusive of GST) of INR 100 million (INR 10 Crore) calculated as total payments received by the bidder for contracts completed or under execution over the last three years (2019-20, 2020-21, 2021-22 OR 2020-21, 2021-22, 2022-23).</p> <p><i>For companies recognized as startup by the Department for Promotion of Industry and Internal Trade, qualification criteria is as follows:</i></p> <p><i>Minimum annual turnover of not less than INR 10 million (INR 1 Crore) in one of the last two financial years (Certified by CA).</i></p> <p><i>Successful completion as main supplier within the last TWO (2) years, of at least One (1) contract valued at INR 5 Million (INR 50 Lakhs) with nature, and complexity similar to the scope of supply. The bidder also needs to attach satisfactory Installation report for the same work order and locations of Installations. The committee members may visit the locations shared by Bidders to check the actual performance of Machinery and equipment at employer's cost</i></p>	<p>2020-21 2021-22 2022-23</p>
6.	<p>Labour licence The successful agency will have to get registered himself with Labour Department under Labour Act 1970.</p>	
7.	<p>GST Certificate with its issue number</p>	
8.	<p>Audited Financial Statements for the last three years</p>	<p>2020-21 2021-22 2022-23</p>
9.	<p>Acknowledgement of Income Tax Return for the last three years</p>	
10.	<p>Copy of the valid enlistment with Central / State Government Departments / PSUs for the appropriate class and category.</p>	
11.	<p>PAN card (photocopy)</p>	
12.	<p>Certificate of Office Registration for Regd. Branch Office in the State where registered in Bhopal</p>	
13.	<p>ISO 9002 and any other Certificate issued from appropriate authority. (If Applicable)</p>	
14.	<p>Contractor License / Manufacturers authorization</p>	
15.	<p>Undertaking Annexure -VII & VIII</p>	
16.	<p>Compliance Annexure-I to Annexure-VIII</p>	

Annexure-IV

Ref.No. : CRISP/CENTER/LAB SETUP/2023-24/1559

Dated: 08.01.2024

SCOPE OF WORK**Technical Requirement:**

Description	Qty
Pneumatics Lab	
Basic Pneumatic Training Kit	2
Electropneumatic Training Kit with Relay Based Operation	1
Compressor (100 Ltr Capacity)	1
Table with MDF top and minimum work area of 1200mm x 800mm	3
Hydraulics Lab	
Basic Hydraulic Training Kit	2
Electrohydraulic Training Kit with Relay Based Operation	1
Hydraulic and Pneumatic Simulation Software	2
Table with MDF top and minimum work area of 1200mm x 800mm	
PLC and HMI Training Lab	
PLC and HMI Training Kit Basic - Mitsubishi	2
PLC and HMI Training Kit Basic - Siemens	2
Table with MDF top and minimum work area of 1200mm x 800mm	4
Welding Lab	
Arc welding machine 200Amp with electrode holder and Earth clamp cable	5
Tig/Arc welding machine 200Amp with torch, electrode holder and Earth clamp cable and flow meter, regulator	1
Mig/Arc welding machine 250Amp with torch, and Earth clamp cable and preheater, regulator, Flow meter	1
bench vice 4 inch	5
Drill machine	1
Bench Grinder	1
Grinder 4 inch	1
Chop saw 14 inch	1
Welding table with curtain 1mtr by 400mm by 650mm	4
Gas welding table 1mtr by 1mtr by 750mm	4
Work Welding table 1200mm by 1mtr by 750mm	1
Welding consumable for Tig/Arc/mig	1
Welding Helmet	10
Chipping Hammer with metal handle	10
Flat Tongs, 350mm long	10
Scriber, 150mm long	10
Hack Saw Frame, 300mm	10
File Half Round, 300mm	10
Flat File, 300mm	10

Tip Cleaner	10
Try Square, 6"	5
Screw Driver, 300mm Blade	5
C Clamps, 10 CM	5
C Clamps, 15 CM	5
Magnifying Glass, 100mm Dia	2
Electrode Holder, 600 Amps	2
SS Wire Brush	2
Computer Lab	
Intel core Ci3-11th 1115G4 Cpu 8GB Ram 512GB SSD 15.6" FHD AG Display WIN11SL+MSO H&S 2021 ARTIC GREY Color 1 YEAR WARRANTY WITH BAG	15
Table for Laptop with minimum dimensions of 1000mm x 750mm x 700mm (Height)	15
Revolving Chair for Computer table	15
Electrical and Electronics Lab	
Soldering Flux	5
Screw Driver Set	5
UF Water Purifier	1
UV Water Purifier	1
RO Water Purifier	1
Water Pressure Gauge	5
TDS Meter	5
Spanner Set	5
Soldering Iron	5
Mixer	2
Microwave Oven	2
Lead Solder	5
Juicer	2
Grinder	2
Electrical Drill	3
Digital Multimeter	5
Clamp Meter	5
Window Air Conditioner	2
Weighing Scale	1
Vacuum Pump	2
Tube Cutter	5
Tube Bender	5
Split Air Conditioner	1
Spanner Set	5
Single Door Refrigerator	1
Semi-Automatic Washing Machine	1
Screw Driver Set	5
Pressure Gauge	5
Plier	5
Line Tester	8
Hammer	5
Hack Saw	5
Gas Cylinder	1
Flaring Tool	2

Electrical Drill	2
Double Door Refrigerator	1
Digital Multimeter	3
Digital Thermometer	2
Clamp Meter	5
Brazing Rod	2
Automatic Washing Machine	1
Adhesive	5
Sewing Machine Operator Lab	
Single Needle Lock Stitch Machine (Snls) With Needle Guard	8
Specialised Industrial Sewing Machines	7
Sewing Machine Accessories And Attachments	
Design Patterns template	
Shears	30
Paper scissors	1
Trimmers,	30
Seam Ripper	30
Tracing Wheel	5
Thimble	30
Pins And Safety Pins	1 box
Dress Maker'S Pin	1 box
Pin Cushion	1 set
Scale	2
Measuring Tape	30
Bobbin And Bobbin Case	
Different Type Of Needles	8 packs
Needle Threader	15
Cleaning Cloth	15
Dress Form	1
Threads for sewing	30 spools/cones
Personal Protective Equipment	30
Thread Clipper	30
Fabric Yardages	200 mtrs.
Required Trims/Accessory	
Machine Folders with Attachments	3 sets
Garment, Made Ups And Home Furnishing Sample	3
Student'S Sewing Stools	15
Cutting Table	1
First Aid Box And Dustbin	1
Boxes And Pouches For Storing Items	15
Machine Oil	
Stationary Items	30
Labels And Stickers	
Carbon Paper	
fabric/Seam Samples swatch file	1
Size Chart, Trim Card, Operation Bulletin, Fabric Worksheet	1 set
Dexterity Test Kit	1
Dustbin	1

Measuring tape	30
Screws and screw drivers	3 sets
Hangers	
White/Black Board Marke/Chalkr And Duster	1
Mechanic Repair & Maintenance of Two-Wheeler Lab	
Scooter / Motor cycle repairing stand	1
Spark plug testing & cleaning machine	1
Gas Analyzer with temperature & speed sensor	1
Scooter with two stroke engine	1
Scooter with four stroke engine	1
Motor cycle with two stroke engine	1
Motor cycle with four stroke engine	1
Two wheeler lifting stand	1
Stroscoping Timing light	1
Tachometer	1
Battery charger	1
All tool kits required for repair & maintenance of 2-wheeler	2
Complete Electrification work on site with minimum BOQ as follows: BOQ mentioned is an indicative BOQ and actual BOQ might change depending on the site requirements.	
Phase meter panel	1
Main panel	1
Distribution panel	4
Main cable meter to main	20 Mtr
Main to distribution panel cable for 3 phase meter cable 2.5 sq mm x4 core	200 Mtr
DB Mcb single pole 10/16/32	50
Mcb double pole	25
Single phase Wire 1.5 sq mm	50 Rolls
Single phase Wire 2.5 sq mm	20 Rolls
Switch / socket mod board 18 way complete with switch /socket ,fan regulator	20
Switch / socket mod board 12 way complete with switch /socket ,fan regulator	20
Switch / socket mod board 6 way complete with switch /socket ,fan regulator	10
Switch / socket mod board 4 way complete with switch /socket ,fan regulator	5
Ceiling light	80
Ceiling fan	70
Dome light	5
Street light	6
Tube light	20
Water cooler 125 ltr voltas	1
AC 1.5 Ton Voltas	1
Camera work	1
Cable tray	100
Flexible pipe	200 Mtr
PVC Clip / metal Clip	20 Packets
Wiring of labs with required hardware, earthing and labour charges.	1



Complete Civil work with fabrication on site with minimum BOQ as follows:	
Library Table - 850 x 450	4
Library Rack - 1000mm x 150mm	10
Revolving Chair	40
Executive revolving chair	2
Visitor Sofa - 3 seater	5
Faculty Table with minimum area of 800mm x 450mm	7
Staff Room Table	1
Reception Area improvisation with colouring	1
Sofa	1
Center Table	2
Dual Desk	70
Partition (Aluminium Composite Panel with Glass)	3830 SQ FT
White Wash (Minimum area of wall to be considered as 5000 SQ Ft. Actual area might differ)	
Civil Work approx. 450 Sq. Ft. (1x1 Tiles supply and Fixing)	
ACP Panelling (Minimum area of wall to be considered as 800 SQ Ft. Actual area might differ)	
Plumbing (Necessary plumbing activities to keep the toilet blocks functional.)	
LED Board	
Branding / Naming (On the front wall with minimum LED signage area of 10 feet x 15 feet. Actual area might differ.)	

Authorized Signatory (Signature): _____

Name and title of Signatory: _____

Stamp of the Company:

Date:

Annexure: V

Technical Specifications

If detailed specifications are not mentioned, bidder should provide technical details along with tender document.

Pneumatics Lab		
1	Basic Pneumatic Training Kit	
	The training system should be a table top model with minimum work surface area of 750mm x 540mm. This trainer kit should be provided with a table made up of MDF top and mild steel based structure.	1
	3/2-way valve, pushbutton actuated, spring return, Normally-closed (NC) type	2
	3/2-way valve, roller lever left actuated, spring return, NC type	1
	One-way flow control valve, adjustable	4
	5/2-way valve, hand lever operated	1
	5/2-way valve, pneumatically-actuated, spring return	1
	5/2-way valve, pneumatically actuated on both sides	1
	Shuttle valve	1
	Two-pressure valve	1
	Quick-exhaust valve	1
	Tee joint	1
	Plastic tubing 6 mm OD	1
	Single-acting cylinder 16 mm bore x 50 mm stroke	1
	Double Acting Cylinder Bore: 20 mm, Stroke: 100 mm	2
	All valves as well as actuators should be mounted on a quick mounting mechanism. No allen key or any other accessory should be required to mount the valves or actuators on training kit	1 set
2	Electropneumatic Training Kit with Relay Based Operation	
	The training system should be afloor mounted model with minimum work surface area of 1200mm x 540mm. Total height of the structure should be at least 1600mm. Trainer kit should be a double faced training kit made up of aluminium extrusions.	1
	3/2-way valve, pushbutton actuated, spring return, Normally-closed (NC) type	2
	3/2-way valve, roller lever left actuated, spring return, NC type	1
	One-way flow control valve, adjustable	4
	5/2-way valve, hand lever operated	1
	5/2-way valve, pneumatically-actuated, spring return	1
	5/2-way valve, pneumatically actuated on both sides	1
	Shuttle valve	1
	Two-pressure valve	1

	Quick-exhaust valve	1
	Tee joint	1
	Plastic tubing 6 mm OD	1
	Single-acting cylinder 16 mm bore x 50 mm stroke	1
	Double Acting Cylinder Bore: 20 mm, Stroke: 100 mm	2
	All valves as well as actuators should be mounted on a quick mounting mechanism. No allen key or any other accessory should be required to mount the valves or actuators on training kit	1 set
	3/2-way solenoid valve with LED, spring return, 24 V DC	1
	Mounting Plate with Engraved Symbol and Name	
	5/2-way single solenoid valve with manual override and LED, 24V DC	2
	Mounting Plate with Engraved Symbol and Name	
	5/2-way double solenoid valve with manual override and LED, 24 V DC	2
	Mounting Plate with Engraved Symbol and Name	
	5/3-way double solenoid valve with manual override and LED, 24 V DC	1
	Mounting Plate with Engraved Symbol and Name	
	2mm Patch cord connector set	1 set
	Power supply unit, Input voltage: 85 – 265 V AC, Output voltage: 24 V DC, Output current: approx. 4.5 A, short-circuit-proof	1
	Signal input box, electrical, consisting of three illuminated momentary contact pushbutton switches (each 1 NO + 1 NC) and one illuminated maintained-contact switch (1 NO + 1NC), power supply rail, and earth contact rail. Contact load 2A	1
	Relay unit, three-fold, with 3 electro-magnetic relays each with 4 change-over contacts, suitable for 24 V DC, 5 A	1
	Electrical limit switch with a change-over contact, left actuated	2
	Proximity sensor, inductive with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 0 – 4 mm	1
	Proximity sensor, capacitive with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 0 – 4 mm	1
	Proximity sensor, optical, with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 70 – 300 mm (adjustable)	1
Hydraulics Lab		
1	Basic Hydraulic Training Kit	
	The training system should be a floor mounted model with minimum work surface area of 120mm x 540mm. Total height of the structure should be at least 1600mm. Trainer kit should be a double faced training kit made up of aluminium extrusions.	1
	Hydraulic tank with 64 Litre capacity, Oil cleanliness: Level 8	1
	Electric motor 2 HP -1500 rpm	1

Gear Pump (Flow Rate: 8 LPM, Max Pressure: 70 Bar)	1
Pressure Gauge 0 to 100 Bar, Glycerin filled, 2 inch	1
Pressure Relief Valve (Subplate Mounted) with Locking Arrangement	1
Suction Line Filter	1
Return Line Filter	1
Pressure Line Manifold with 4 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
Pressure Line Manifold with 2 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
Return Line Manifold with 4 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
Return Line Manifold with 2 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
Pressure Relief Valve (Direct operated relief valve)	1
Blocking Plate for PRV	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Flow Control Valve (Non Pressure Compensated) with Check Valve .	1
Flow Control Valve (Pressure Compensated) with Check Valve	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	1
Four way Three position manually operated direction control valve - Tandem Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Four way Three position manually operated direction control valve - Closed Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Three way Two position manually operated direction control valve - Closed Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4

	Single Acting Cylinder (Stroke: 100mm, Dia: 25mm, Test Pressure: 70 Bar)	1
	3/8 Adapters for SA Cylinder	2
	Quick Connect Coupling for DA Cylinder	2
	Double Acting Cylinder (Stroke: 200 mm minimum Test Pressure 130 Bar)	1
	3/8 Adapters for DA Cylinder	2
	Quick Connect Coupling for DA Cylinder	2
	Needle Valve	1
	Pressure Reducing Valve	1
	Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
	Quick Connect Coupling for P, T, A and B Ports	4
	3/8 Adapters for P, T, A and B ports with dowty washers	4
	Four way Two position manually operated direction control valve	1
	Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
	Quick Connect Coupling for P, T, A and B Ports	4
	3/8 Adapters for P, T, A and B ports with dowty washers	4
2	Electrohydraulic Training Kit with Relay Based Operation	
	The training system should be afloor mounted model with minimum work surface area of 1200mm x 540mm. Total height of the structure should be at least 1600mm. Trainer kit should be a double faced training kit made up of aluminium extrusions.	1
	Hydraulic tank with 64 Litre capacity, Oil cleanliness: Level 8	1
	Electric motor 2 HP -1500 rpm	1
	Gear Pump (Flow Rate: 8 LPM, Max Pressure: 70 Bar)	1
	Pressure Gauge 0 to 100 Bar, Glycerin filled, 2 inch	1
	Pressure Relief Valve (Subplate Mounted) with Locking Arrangement	1
	Suction Line Filter	1
	Return Line Filter	1
	Pressure Line Manifold with 4 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
	Pressure Line Manifold with 2 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
	Return Line Manifold with 4 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
	Return Line Manifold with 2 Ports (Hard piped / wire braided hose connected with powerpack and mounted on the front work surface)	1
	Pressure Relief Valve (Direct operated relief valve)	1
	Blocking Plate for PRV	1

Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Flow Control Valve (Non Pressure Compensated) with Check Valve .	1
Flow Control Valve (Pressure Compensated) with Check Valve	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	1
Four way Three position manually operated direction control valve - Tandem Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Four way Three position manually operated direction control valve - Closed Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Three way Two position manually operated direction control valve - Closed Center	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Single Acting Cylinder (Stroke: 100mm, Dia: 25mm, Test Pressure: 70 Bar)	1
3/8 Adapters for SA Cylinder	2
Quick Connect Coupling for DA Cylinder	2
Double Acting Cylinder (Stroke: 200 mm minimum Test Pressure 130 Bar)	1
3/8 Adapters forDA Cylinder	2
Quick Connect Coupling for DA Cylinder	2
Needle Valve	1
Pressure Reducing Valve	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4
Four way Two position manually operated direction control valve	1
Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
Quick Connect Coupling for P, T, A and B Ports	4
3/8 Adapters for P, T, A and B ports with dowty washers	4

	Power supply unit, Input voltage: 85 – 265 V AC, Output voltage: 24 V DC, Output current: approx. 4.5 A, short-circuit-proof	1
	Signal input box, electrical, consisting of three illuminated momentary contact pushbutton switches (each 1 NO + 1 NC) and one illuminated maintained-contact switch (1 NO + 1NC), power supply rail, and earth contact rail. Contact load 2A	1
	Relay unit, three-fold, with 3 electro-magnetic relays each with 4 change-over contacts, suitable for 24 V DC, 5 A	1
	Electrical limit switch with a change-over contact, left actuated	2
	Proximity sensor, inductive with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 0 – 4 mm	1
	Proximity sensor, capacitive with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 0 – 4 mm	1
	Proximity sensor, optical, with protection against polarity reversal, overload and short circuit, 10 – 30 V DC, sourcing (PNP) type, sensing distance of 70 – 300 mm (adjustable)	1
	Timer box with an on-delay timer and an off-delay timer, each with 2NO+2NC contact sets, delay time adjustable from 0.5 – 10 sec.(or more), Current rating - 5 A	1
	Four Way Three Position Double solenoid operated direction control valve	1
	Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
	Quick Connect Coupling for P, T, A and B Ports	4
	3/8 Adapters for P, T, A and B ports with dowty washers	4
	Four Way Two Position Single solenoid operated direction control valve	1
	Type 1 Valve Manifold for CETOP 3 valve with P, T, A and B ports clearly engraved on the manifold	1
	Quick Connect Coupling for P, T, A and B Ports	4
	3/8 Adapters for P, T, A and B ports with dowty washers	4
PLC and HMI Training Lab		
1	PLC and HMI Training Kit Basic - Mitsubishi	
	The training system should be a table top model with minimum work surface area of 750mm x 540mm. This trainer kit should be provided with a table made up of MDF top and mild steel based structure.	1
	Dimensions / Footprint: 1100 x 700 x 910 (Height)mm	
	Rigid mounting arrangement	
	Mitsubishi FX5 and GS2107	
	FX5U-32MT/ESS - PLC with 16DI/16DO	1
	GS2107-WTBD - Mitsubishi HMI 7"	1
	Power supply and control panel for PLC	1
	PLC Input module with input override switches (24 inputs)	1
	Field input module (24 inputs)	1

	PLC output module (24 outputs)	1
	Field output module (24 outputs)	1
	2mm Patch cord connector set	1 set
	Switch Module (Unmanaged)	
	5 Port Unmanaged Switch	1
	Profinet cable for PLC to Switch communication	1
	Profinet cable for HMI to Switch communication	1
	Sensor Module (Digital)	
	Capacitive Sensor (PNP, NO Type)	1
	Photo Sensor (PNP, NO Type)	1
	Proximity Sensor (PNP, NO Type)	1
	Proximity Sensor (PNP, NC Type)	1
	Switchgear Module	
	Push Button (NO Type)	1
	Push Button (NC Type)	1
	Selector Switch (NO Type)	1
	Selector Switch (NC Type)	1
	Emergency Switch (Mushroom Head)	1
	Mushroom Head Push Button (For Both Hand Operation)	1
	Indicators (Red and Green)	1
	Buzzers	1
	Automation Module: Pneumatic Operation with Solenoid valves and Cylinders	
	Double Acting Solenoid Valve	3
	Single Acting Solenoid Valve	1
	Double Acting Pneumatic Cylinder (Stroke: 30mm)	3
	Pneumatic Motor	1
	Pneumatic Junction box (5 Port)	1
	Pneumatic Pushpull connectors for pneumatic components	1 set
2	PLC and HMI Training Kit Basic - Siemens	
	The training system should be a table top model with minimum work surface area of 750mm x 540mm. This trainer kit should be provided with a table made up of MDF top and mild steel based structure.	1
	Dimensions / Footprint: 1100 x 700 x 910 (Height)mm	
	Rigid mounting arrangement	
	Siemens S7 1200 and KTP 700	
	Siemens S7 1200 PLC	1

Siemens KTP 700 HMI	1
Power supply and control panel for PLC	1
PLC Input module with input override switches (24 inputs)	1
Field input module (24 inputs)	1
PLC output module (24 outputs)	1
Field output module (24 outputs)	1
2mm Patch cord connector set	1 set
Switch Module (Unmanaged)	
5 Port Unmanaged Switch	1
Profinet cable for PLC to Switch communication	1
Profinet cable for HMI to Switch communication	1
Sensor Module (Digital)	
Capacitive Sensor (PNP, NO Type)	1
Photo Sensor (PNP, NO Type)	1
Proximity Sensor (PNP, NO Type)	1
Proximity Sensor (PNP, NC Type)	1
Switchgear Module	
Push Button (NO Type)	1
Push Button (NC Type)	1
Selector Switch (NO Type)	1
Selector Switch (NC Type)	1
Emergency Switch (Mushroom Head)	1
Mushroom Head Push Button (For Both Hand Operation)	1
Indicators (Red and Green)	1
Buzzers	1
Automation Module: Pneumatic Operation with Solenoid valves and Cylinders	
Double Acting Solenoid Valve	3
Single Acting Solenoid Valve	1
Double Acting Pneumatic Cylinder (Stroke: 30mm)	3
Pneumatic Motor	1
Pneumatic Junction box (5 Port)	1
Pneumatic Pushpull connectors for pneumatic components	1 set

Annexure-VI

PRICE BID FORMAT

(To be Submitted in Envelope -II)

PRICE BID FORMAT FOR SETUP OF LABS AND PROCUREMENT OF EQUIPMENTS FOR CRISP CENTER
(in the prescribed format only)

Ref. No. : CRISP/CENTER/LAB SETUP/2023-24/1559

Dated: 08.01.2024

S.N.	Specifications	Qty.	Unit Rate (In Rs.)	Total Rate
1.	Pneumatics Lab	As per BOQ		
2.	Hydraulics Lab			
3.	PLC and HMI Training Lab			
4.	Welding Lab			
5.	Computer Lab			
6.	Electrical and Electronics Lab			
7.	Sewing Machine Operator Lab			
8.	Mechanic Repair & Maintenance of Two- Wheeler Lab			
9.	Complete Electrification work on site with minimum BOQ			
10.	Complete Civil work with fabrication on site at with minimum BOQ			
			GST @.....%	
Total Amount of Complete Work (With GST) (In Rs.)				
Rupees in Words:				

Authorized Signatory (signature in full) :

Name and Title of Signatory :

Company Rubber Stamp :

Date:

Annexure-VII

GENERAL TERMS AND CONDITIONS

1. Technical Documents :

The Vendor shall deliver together with the goods all necessary technical documents such as operating instructions. Instruction manual, connection plan, interior circuit plan in Hindi/English. The documents shall be wrapped in waterproof packing.

2. Invoice Documentation :

Commercial invoices and delivery note to CRISP must include all relevant details, Marks and numbers, dimensions and weight of the packing units of the items being delivered. Invoices shall be submitted in 4 copies.

3. Inspection :

The buyer retains the right to have all articles inspected at any time by its duly authorized representative. Any defects shall be remedied by the Vendor immediately at no extra cost to CRISP. Any inspection carried out shall not prejudice the implementation of other relevant provisions of this contract concerning obligations undertaken by the Vendor, such as warranty or specifications.

4. Warranty :

The Vendor shall guarantee that, at the time of delivery, the goods supplied under the contract shall be free from any defects in the material or in its workmanship, shall be suitable for the climatic conditions at destination and shall conform to the requirements of the purchase order/contract notwithstanding the fact that an inspector may have inspected and/or accepted the goods.

The **warranty** shall be valid for a **minimum of 3 year(s)** after installation of the goods / material etc. at the destination.

Notice of any such defects or any inconsistencies noted in the particular procurement shall be given by CRISP to the Vendor within one year of the arrival of defective or non- performing commodity.

If required by CRISP, within a reasonable amount of time after such notice, the Vendor shall replace the defective or non performing commodity at his own expenses.

The validity of this warranty shall then be extended further to **one year after the date of arrival of the replaced items**. If CRISP does not require replacement or refurbishing of defective goods, the Vendor shall repay to CRISP, within a reasonable amount of time after issue of the notice of defects or poor performance, the corresponding portion of the price of the defective machine / material etc.

5. Delays in Delivery/Liquidated Damage Clause :

In case of delay in the delivery of goods, wholly or in part, by more than 14 days, the buyer may refuse to take delivery wholly or in part and terminate the contract/cancel the procurement order.

Without prejudice to his rights earlier mentioned, the buyer has the right to demand liquidated damages at the rate of 1% of the value of the goods **per week** subject to a maximum of 10% of the value of the order. **The Vendor shall accept this condition in writing at the time of accepting the supply order.**

6. Default :

In case of default by the Vendor, including but not limited to failure or refusal to make deliveries within the specified period, the buyer may procure the goods or services from other sources and hold the Vendor responsible for any excess of cost caused thereby.

Furthermore, the buyer shall, by a written notice, terminate the right of the Vendor to proceed with deliveries or such part or parts thereof as to which there has been default.

7. Force Majeure :

If, in case of force majeure, the Vendor is unable to perform his obligations under this contract he shall give notice thereof to the buyer within 15 days after the occurrence of specific force majeure. Force Majeure shall mean the presence of circumstances which independent of the will of the contracting parties arise after the conclusion of the contract and which impacts its normal fulfillment.

Force majeure clause and clauses requiring the supplier to arrange free training of CRISP staff with a view to familiarizing them with the working of the equipment either at the works of the supplier / manufacturer or at CRISP, Bhopal after installation of the machine shall be appropriate for the ordered machines and equipment or items covered by this bulk order.

8. Assignment :

The Vendor shall not assign, wholly or in part, his obligations under this contract to any other party except with the buyer's prior written consent.

9. Confirmation of Order :

The Vendor shall confirm the supply order by signing the copy attached with the Purchase Order. The contract becomes valid only when the copy of this order, bearing the legally-binding signature of the Vendor, has been received by the buyer. Acceptance/confirmation of the order by the Vendor shall mean his acceptance to these terms and conditions.

10. Amendments :

Modifications and supplements to this order are **valid only when made in writing**, Verbal amendments shall not be valid.

11. Partial invalidity :

One or more provisions of this contract rendered invalid shall affect the validity of other provisions. In the event of the invalidity of particular provision(s), the respective invalid provision(s) shall be deemed replaced by such provisions as come closest to the economic purpose intended by the contracting parties.

12. Terms of Contract :

The present contract shall be governed, exclusively, by the terms stipulated herein.

13. Settlement of disputes:

If any dispute arises during a transaction, efforts shall be made to settle them amicably. In case, it is decided to take recourse to legal action, **jurisdiction of the courts of law shall be Bhopal.**

14. Efforts shall be made to make payment of the goods within 30 days of their arrival in CRISP in good working condition/Installation/Inspection by the Committee. Payments shall be made by cheque / Demand draft in favour of the vendor.

15. Cheques / DDs shall be sent to the vendor by registered post at his/her given address. This shall mean that no person / representative of the vendor shall be entertained in CRISP so far as payment of bills is concerned.

16. Advance payment:

Advance payment shall be avoided as a matter of rule. Whenever, payment in advance is agreed under strenuous circumstances, payment to the extent of 90% of the cost of equipment

could be made **against valid proof of dispatch / or on COD(*) basis** and in those cases only, where the supplier is accredited, well known and reputed.

17. Safety clauses:**(i) Earnest Money Deposit:**

Rs.2,00,000/- (Rupees Two Lakh only) in the form of a DD in favour of CRISP Society, Bhopal, payable at Bhopal.

(ii) Performance Security:

Performance Security @3% of the value of the order shall be deposited as a measure to regulate the supply of goods / machines and for ensuring the required performance throughout the period of warranty/guarantee/ completion of a construction work.

(iii) In the event of failure to supply the items in stipulated date / time forfeiture of Performance Security. CRISP reserves the right to terminate the contract and will get the order by any other competent bidder, and the recovery of such losses shall be recovered from the successful bidder. The decision of the Director - CRISP shall be final in this regard.

18. Forfeiture of EMD

EMD made by Bidder may be forfeited under the following conditions:

- a) If Bidder withdraws the proposal after bid submission deadline.
- b) During the evaluation process, if a Bidder indulges in any such activity as would jeopardize the process, the decision of CRISP regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.
- c) If Bidder violates any of the provisions of the terms and conditions of the proposal.
- d) In the case of a successful Bidder, if Bidder fails to:
 - Accept the work order along with the terms and conditions.
 - Furnish performance security.
 - Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
 - Submitting false / misleading information / declaration / documents / proof etc.

The decision of CRISP regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances.

19. The offer of rate shall be filled in the prescribed form available on Annexure-V.

20. The Vendor(s) are requested to go through the Purchase Order very carefully to make sure the destination for delivery of goods being procured the supply shall be FOR destination as **specifically mentioned** in the Work /Purchase Order.

21. LABOUR

The Contractor shall unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport. The contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the number of the several classes of labour from time to time employed by the Contractor on the site and such other information as the Engineer may require.

22. COMPLIANCE WITH LABOUR REGULATIONS :

•During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by the all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to

construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any act or rules made there under, regulations, or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe or for non observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments. If any on the part of the contractor, the Engineer/Employer shall have the right to deduct any money due to Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

- 23. Director, CRISP reserves the right to accept any bid or reject all or any bid without having to give any reason for doing this.**

**Director
CRISP Bhopal**

Annexure-VIII

UNDERTAKING

FOR COMPLIANCE OF ALL TERMS & CONDITIONS MENTIONED IN THIS TENDER DOCUMENT

(To be print on Company letter head duly self attested)

**To,
DIRECTOR.,
CRISP
BHOPAL**

Sir,

I / we hereby declare that I / we before signing this tender have read and fully understood all the terms & conditions contained herein and undertake myself / ourselves to abide by them.

I / we further declare that the information / documents furnished above are true and correct and I / we undertake that any discrepancy (ies) found on later occasion, will liable me / us for any action as deemed fit by the CRISP, Bhopal.

Signature of Bidder

(Name of Bidder)

Place

With seal of firm

Date.....

CRIMINAL LIABILITY UNDERTAKING

(To be print on Company letter head duly self attested)

I.....S/o.....
.... Resident of
.....
.....
.....

Do solemnly pledge and affirm: -

1. That I am the proprietor /partner/authorized signatory of

M/s.
.....

2. That my firm has not been declared defaulter by any Govt./Semi Govt./PSU's Sector and that NO case of any nature i.e. CBI/FEMA/Criminal/Income Tax/GST/Blacklisting is pending against my firm.

Name & Signature **Seal of the**
participating Bidder Company Date:.....