

Indian Institute of Technology Palakkad

भारतीय प्रौद्योगिकी संस्थान पालक्काड

STORES & PURCHASE SECTION

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Tender No. TENDER/2022-23/036 Date of Publication: 06-09-2022 Date/Time of Closing: 27-09-2022, 1500 hours

Indian Institute of Technology Palakkad Invites Global Tender under Two-bid system for the:

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF

Welding Machines, Welding Table and Accessories

Conforming to the specifications as in BoQ Technical.

Tender Documents may be downloaded from the e-Wizard Portal https://mhrd.euniwizarde.com/. Aspiring Bidders who have not enrolled / registered in e-Wizard should enroll / register before participating through the website https://mhrd.euniwizarde.com/. Bidders are advised to go through instructions provided at "Procedure for Submission of E-tender". [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this e-Wizard Portal"].

Bidders can access tender documents on the website. For searching in the site, kindly go to Live Tenders option, Click "Advance Search" and select Department as 'IIT Palakkad'. Thereafter, Click on "Search" button to view all IIT Palakkad tenders. Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://mhrd.euniwizarde.com/ as per the timeline below.

No manual bids will be accepted. All tender documents including Techno-Commercial, Technical and Financial bids should be submitted in the e-Wizard portal.

S. No.	Events	Date and Time
1	Publication of the Tender Document	06-09-2022
3	Last Date/Time for submission of ONLINE Bids	27-09-2022, 1500 hours
4	Opening of Technical Bids	27-09-2022, 1515 hours

TERMS AND CONDITIONS

1	GENERAL	 (a) The responsibility of submission of the bids on or before the last date shall rest with the tenderer. The institute will hold no responsibility for the non-receipt of the bids or the bids received after the date/time specified. Any bid received by IITPKD after the bid submission deadline prescribed by IITPKD, shall be rejected and returned unopened to the Bidder. (b) Canvassing or offer of an advantage or any other inducement by any person with a view to influencing acceptance of a bid is an offence under the Laws of India. Such action will result in the rejection of bid, in addition to other punitive measures. (c) Each bidder shall submit only one bid, either by himself or as a partner in a joint venture or as a member of the consortium. If a bidder or if any of the partners in a joint venture or any one of the members of the consortium participate in more than one bid, the bids (of both the individual and the partnership/consortium/joint venture) are liable to be rejected. (d) The bidder shall bear all costs associated with the preparation and submission of his bid and IITPKD shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process. (e) IITPKD will respond to any request for clarification or modification of the Tender Document that are received up to TWO DAYS prior to the deadline for submission of bids prescribed by IITPKD. For this purpose, the prospective bidder(s) requiring clarification in the Tender Document shall notify IITPKD through the ONLINE Portal ONLY. Any such clarification, together with all the details on which the clarification had been sought, will be published in the ONLINE Portal ONLY. Deviations, if any, observed by the Institute in the submitted bids, from the Terms and Conditions of the Tender Document will not be accepted by the Institute.
		(f) Except for any such clarification by the Institute, which is expressly stated to be an addendum to the tender document issued by the Registrar, IIT Palakkad, no written or oral communication, presentation or explanation by any other employee of any of the Sections/Departments of the Institute, shall be taken to bind or fetter the Institute.
		 (g) The bidder is expected to examine all instructions, forms, terms and conditions in the Tender Document. In the event of discovery of any missing pages, the bidder shall inform the same to the Section/ Department concerned. Failure to furnish the information required by the Tender Document or submission of a tender not substantially responsive to the Tender Document in every respect will be at the bidder's risk and may result in rejection of the bid. (h) The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document. (i) The Supplier shall not, without the prior written consent of the IITPKD, assign to any third party, the Contract or any part thereof.

2	COMPOSITION OF	(a) The Tender Document comprises of:
-	THE TENDER	Instruction to the bidders including terms and conditions
	DOCUMENT	Technical Specifications (Annexure-I)
	DOCUMENT	2. Undertaking by the Bidder (Annexure-II)
		3. Fall Clause Notice Certificate (Annexure-III)
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	DOCHMENTES.	4. Format for self certification – MII (Annexure –IV)
3	DOCUMENTS	(a) The Technical, Techno-commercial and Commercial Bids (Cover
	COMPRISING THE	One) and Commercial Bid (Cover Two) shall be submitted ONLINE
	BID	through the e-Wizard Portal.
		(b) Bids submitted in any mode other than ONLINE will be rejected
		outright.
		(c) Documents establishing the conformity of the terms and conditions of
		the Tender Document shall be provided along with the bid. The
		offer/bids should be sent only for a system or that is available in the
		market and supplied to a number of customers. A list of customers in
		India and abroad with details must accompany the quotations.
		Quotations for a prototype machine will not be accepted.
		(d) Original catalogue (not any photocopy) of the quoted model duly signed
		by the principals must accompany the quotation in the Technical bid. No
		prices should ever be included in the Technical bid.
		(e) Compliance or Confirmation report with reference to the specifications
		and other terms and conditions should also be obtained from the
		principal.
		(f) Information related to the agency/bidder such as photocopies of the
		Registration/PAN/GST/TIN shall be furnished.
		(g) The technical bid should consist of all technical details along with
		commercial terms and conditions. No prices should be included in the
		technical bid. Mentioning of Prices in the Technical Bid shall lead to
		DISQUALIFICATION.
		(h) Those who are bidding for this tender shall:
		1) Bidder/OEM should have implemented at least Three orders of
		Welding Machines and Accessories during previous five
		financial years (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)
		from Centrally Funded Technical Institutes (IITs, NITs, IISc, IISER),
		DRDO, ISRO, CSIR labs or Government Firms in India. Copies of
		the most recent purchase orders and user certificates of successful
		implementation must be included. Copies of financial statements or
		evidence of turnover must be furnished.
		2) Have an Average Annual Turnover of Rs 36,00,000 (RUPEES
		THIRTY SIX LAKH ONLY) during the last THREE financial
		years (2019-20,2020-21,2021-22). The bidder shall enclose the
		audited statements of the indicated financial years, which should have
		been certified by a Chartered Accountant or a Competent Authority.
		3) Digitally signed Tender Document should be submitted in Cover
		One.
4	EARNEST MONEY	(a) The bidder shall furnish EMD of Rs 24,000 /- (Rupees Twenty Four
	DEPOSIT (EMD)	Thousand Only) through online payment gateway in the E-Wizard.
		(b) Bids not accompanied by EMD shall be DISQUALIFIED.
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5	PERFORMANCE	(a) The performance security shall be submitted within FIFTEEN DAYS of
	SECURITY	receipt of the material by the IITPKD. The successful bidder shall
	SECORITI	furnish the Performance Security equal to 3% of the order / contract
		value (excluding the value of annual maintenance charges). The
		Performance Security shall be valid all along the warranty period and
		shall extend upto SIXTY DAYS after the date of completion of
		warranty period. It shall be ensured by the successful bidder that the
		validity of the Performance Security submitted is extended depending on
		the date of commencement of the Warranty.
		(b) The performance security shall be a bank guarantee (in the format as
		provided) issued by the Indian Scheduled bank acceptable to the IITPKD
		or a Demand Draft favoring, INDIAN INSTITUTE OF TECHNOLOGY
		PALAKKAD payable at PALAKKAD.
		(c) The performance security shall automatically become null and void once
		all the obligations of the Supplier under the Contract have been fulfilled,
		including, but not limited to, any obligations during the Warranty Period
		and any extensions to the period. The performance security shall be
		returned to the Supplier not later than fifteen (15) days after its
		expiration.
		(d) Failure of the successful Bidder to comply with the requirements shall
		constitute enough grounds for the annulment of the award and forfeiture
		of the EMD, in which event the IITPKD may make the award to the next
		lowest evaluated bid submitted by a qualified Bidder or call for new
	DID DDIGEG AND	bids.
6	BID PRICES AND	(a) Prices must be quoted separately for each equipment/item identified.
	CURRENCY	(b) Price quoted for equipment/items shall include all the costs
		associated with packing, local transportation from the point of
		clearance to HTPKD, insurance, loading, unloading and associated
		delivery charges. The delivery shall be on DOOR DELIVERY basis
		to the institute including its installation, commissioning, integration
		and validation. It is the sole responsibility of the supplier to ensure
		that the equipment is delivered on DDP mode to IIT Palakkad. An
		undertaking to this effect as in Annexure-II.
		(c) Prices quoted by the bidder shall be fixed during the validity of the bid.
		(d) Prices of the equipment/items shall be quoted in Indian Rupees
		(INR) / Foreign Currency.

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7	LETTER OF CREDIT	(a) Upon the successful Bidder's furnishing of the copy of the Purchase
		Order duly signed on each page and the Performance Security, for the
		equipment ordered in foreign currency, IITPKD will open a letter of credit
		(LC) in a convenient Nationalized Bank in India. For opening of LC
		necessary information shall be provided by the supplier or its authorized
		agents.
		(b) In case the successful bidder is a foreign company and wishes to submit
		Performance Security in the form of Bank Guarantee, the Bank Guarantee
		should be routed through the Beneficiary Bank to the end user bank.
		Otherwise, the Indian Agent of the foreign vendor shall submit a Bank
		Guarantee from a Nationalized Bank of India. The following documents shall
		be submitted in case of an Indian agent submitting the Performance Security
		on behalf of his principal:
		Foreign principal's proforma invoice indicating the commission
		payable to the Indian agent and nature of after-sales service to be
		rendered by the Indian agent.
		Copy of the agency agreement with the foreign principal and the
		precise relationship between them and their mutual interest in the
		business.
		(c) For imported equipment, a Letter of Credit (LC) shall be opened for
		100% CIP price on receipt of the acknowledgment of the purchase order.
		However, 80% of the LC amount only shall be released on proof of the
		shipment of the consignment with necessary documents to be provided in
		detail at the time of placing of the purchase order. Balance 20% of the LC
		amount shall be released upon the receipt of a performance security of 5% of
		the total value of the purchase order and installation, commissioning,
		integration, validation and installation report/certification jointly given by the
		end user and the supplier.
		Any costs associated with the amendments made in the LC as per the
		request made by the Supplier's should be borne by the supplier.
		Any fluctuation in rates / rate conversions arising due to the amendment
		requests made by the supplier shall be on the supplier and not on the
		institute.
8	PERIOD OF VALIDITY	(d) Bids shall remain valid for a period of 180 DAYS after the date of the
	OF BIDS	deadline for submission of bids prescribed by IITPKD.
		(e) If the deadline is extended due to unforeseen circumstances, the bid
		validity shall be deemed to have extended accordingly.

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9	TIME FOR SUPPLY,	(a) The Supplier shall supply the equipment/items within the period	
	INSTALLATION,	specified in the tender document i.e. within FOUR to SIX WEEKS of	
	COMMISSIONING	signing the purchase order or within the period mutually agreed between	
	AND VALIDATION OF	IITPKD and supplier. All the equipment and accessories should be	
	THE	delivered at IIT Palakkad (Nila Campus), Kanjikode-Malampuzha	
	EQUIPMENTS/ITEMS	Road, Pudusserry West, Kanjikode, Kerala 678623.	
		(b) The Supplier shall thereafter proceed with the installation,	
		commissioning, integration and validation and demonstrate operational acceptance of the equipment/items within the period specified. The	
		equipment/items shall be installed and commissioned by the successful	
		bidder within 20 to 25 days from the date of its receipt.	
		(c) The tenderer should indicate clearly the time required for delivery of the	
		item. In case there is any deviation in the delivery schedule, liquidated	
		damages clause will be enforced or penalty for the delayed supply period will be levied.	
		(d) In the event of failure of supply of the item/equipment/items within the	
		stipulated delivery schedule, IITPKD has all the right to purchase the	
		item/equipment/items from other sources on the total risk of the Supplier	
		under the risk purchase clause.	
10	PRODUCT UPGRADES	The Supplier shall continue to support and maintain the version/model of the	
		Equipment supplied by upgrading the software and the hardware as and when	
		amendments are carried out in the existing version or the product is upgraded.	
		Whereas upgrades to the software shall be supplied free of cost, the Supplier may	
		charge for upgrade in hardware provided it is of major nature. An upgraded	
		higher version of the instrument and software related with the instrument shall be	
		supplied.	
11	PENALTIES	If the Supplier fails to complete any of the activities in accordance with the time	
		specified for it, or any extension of time granted by IITPKD, Liquidated	
		Damages Clause shall be invoked.	
12	UP-TIME	(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days)	
	GUARANTEE/	X 365 (days)] basis during the warranty period.	
	DOWNTIME	(b) The Supplier should provide up-time guarantee of 95% (24 hours/day basis)	
	PENALTY CLAUSE	both during warranty. If downtime exceeds the 5% limit, extension of the	
		warranty period will be twice the excess down time period.	
13	LIQUIDATED	If a firm accepts an order and fails to execute the order, in full or part, as per	
	DAMAGES	the terms and conditions stipulated therein, it will be open to the Institute to	
		recover liquidated damages from the firm at the rate of 1% of the value of the	
		undelivered goods per month or part thereof, subject to a maximum of 5% of	
		the value of the undelivered goods. It will also be open to the Institute	
		alternatively, to arrange procurement of the required stores from any source,	
		at the risk and expense of the firm, accepted and failed to execute the order	
		according to stipulations agreed upon. This will also entail the removal of the	
		defaulters' name from the approved/registered list of Suppliers.	

14	EFFECT OF FORCE MAJEURE	 (a) If the Supplier is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the IITPKD in writing of the occurrence of such event and the circumstances of the event of Force Majeure within FIFTEEN DAYS after the occurrence of such event. (b) The Supplier, when affected by the event of Force Majeure shall use
		reasonable efforts to mitigate the effect of the event of Force Majeure upon its performance of the Contract and to fulfill its obligations under the Contract, but without prejudice to IITPKD's right to terminate the Contract.
		(c) No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall:i. Constitute a default or breach of the Contract;
		 Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.
		(d) If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than THIRTYDAYS or an aggregate period of more than SIXTY DAYS on account of one or more events of Force Majeure, the IITPKD shall have the right to terminate the Contract by giving a notice to the Supplier.
15	EXTENSION OF TIME	(a) The time limit for supply, installation & commissioning, integration &
	LIMITS FOR SUPPLY	validation shall be extended if the supply is delayed or impeded in the
	AND MAKING	performance of any of its obligations under the Contract by reason of
	OPERATIONAL, THE	any of the following:
	EQUIPMENT	i. Any occurrence of Force Majeure;
		ii. Any other matter specifically mentioned in the Contract;
		(b) By such period as shall be fair and reasonable in all the circumstances
		and as shall fairly reflect the delay or impediment sustained by the Supplier.
16	GOVERNING LAW	(a) The Contract shall be governed by and interpreted in accordance with
	AND	the laws of India.
	SETTLEME	(b) Any dispute or claim arising out of/relating to this Contract of the
	NT OF	breach, termination or the invalidity thereof, shall be settled by the
	DISPUTES	Hon'ble Courts of Justice at Palakkad.
		(c) The page number should be marked in all pages serially (including all
		supporting documents enclosed with the tender document) and the declaration for the same shall be submitted by the bidder as in
		Annexure-II.
		(d) IITPKD reserves the right to accept or reject any or all the tenders in
		part or whole or may cancel the tender at its sole discretion without
		assigning any reason whatsoever. No further correspondence in this regard will be entertained.

AWARD OF CONTRACT

1	AWARD CRITERIA	 IITPKD will award the Contract to the Bidder who has been determined to be substantially responsive per the Order No. P-45021/2/2017-PP(BE-II) dat 09-2020 from Department for Promotion of In and Internal Trade (Public Procurement Se Ministry of Commerce and Industry, Govt. of Inc. The Institute reserves the right to buy displacement. 	and as ed 16- dustry ction), lia.
		items/quantities from different bidders considering p individual/group of equipment/items or any other as decided by the Committee.	rice of
2	AWARD OF PURCHASE ORDER	 Prior to the expiration of the period of bid v. IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing. 	
		2. Any amendment(s) in the Purchase Order w	ill be
		permitted within SEVEN DAYS of its issuance	e. No
		amendments will be permitted beyond this period.3. The Purchase Order will constitute the foundation	of the
		Contract.	
3	CONTRACT AGREEMENT	1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of	
		page and return it to the Purchaser.	n each
		2. Copy of Purchase Order duly signed and dated	-
		successful Bidder on each page shall constitu Contract Agreement.	te the
4	CONTRACT DOCUMENTS /	All documents forming part of the Contract (and all all all all all all all all all al	ll parts
	AMENDMENT TO CONTRACT	of these documents) are intended to be corre	elative,
		complementary and mutually explanatory. The Constant shall be read as a whole.	ontract
		2. The order of precedence of the Contract document	s shall
		be as follows:	
		(i) Contract Agreement/Purchase Order(ii) All Forms/Annexures	
		(iii) equipment/items and their requirement	
		(iv) Supplier's Bid	
		(v) Tender Document3. No amendment or other variation of the Contract si	hall be
		effective unless it is in writing, is dated, expressly re the Contract and is signed by a duly auth	efers to
		representative of each party to the Contract.	

REGISTRAR

TECHNICAL SPECIFICATIONS

S. No.	Particulars		
1			from the same OEM
2	brochures and user indicate the relevar	lists must be in the page number bid can be ch	specification of each equipment/item. Model numbers, data sheets and included for each quoted equipment/accessories/item. The bidder must in the relevant datasheet in the "Remarks/Deviations" column so that ecked. Specifications corresponding to quoted model number must be site for scrutiny.
3		ties if the syste	t for photographs/CAD drawings/ design proofs to satisfy themselves of m being offered. Decision regarding technical compliance of the bidder formation.
S. No.	Items		IIT PKD required Specification
			MIG(400A) - 1 Quantity
Power S	Source		
1	Input supply Voltag	ge	415 V +15 %, -10 %
2	Input supply Phase		3 Phase
3	Input Frequency		50/60Hz
4	Input KVA(@100% Duty cycle)		12 or Lesser
5	Input KVA(@ No I	Load)	0.24 or Lesser
Output			
	Open Circuit Volta		65V or Less
2	Welding Current R		50-400A
3	cycle)	<i>0</i> 0076 duty	>= 400A
	Welding Current (@	@100% duty	210.
	cycle)		>= 310A
ĺ	Welding voltage ra		16-39V
	Crater Current Ran	-	50-400A
	Crater Voltage Ran		16-39V
	Mode of Operation		2 track, 4 track, Gas check, OCV Check facility
	9 Power Factor 0 Efficiency(@100% Duty Cycle)		Greater than or equal to 0.93
	g Torch	Duty Cycle)	Greater than or equal to 87%
	Current Rating		>= 400A @ 60% Duty cycle for CO2
	End connection to	Forch	Euro
	Suitable diameter o		0.8,1.0,1.2,1.6
	Torch Length	1 wire(iiiiii)	3 Meter
4	TOTCH Length		J IVICOI

Suitable for the diameter of wire(mm) 2 Wirefeed speed 3 Wire roll drive 4 Wire drive motor type 4 Permanent Magnet DC 5 Wire feeder Motor Voltage 4 Wire spool capacity 15Kg or greater 6 Wire spool capacity 15Kg or greater 6 SoA socket will be provided. The connection from the socket is under the scope of the vendor 2 Type of cooling 3 Ingress protection International Standard of 4 Certification Suitable Welding Wire 5 Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8,1.0,1.2 & 1.6 6 Weight - 50kg 7 Audio Noise emission Additional Features Required 1 Automatic "Weld Stop" facility. Digital Panel for adjusting the welding parameters Under Voltage and Over Voltage 5 Protection 1 Automatic "Weld Stop" facility. Cover Temperature Protection 1 Automatic "Weld Stop" facility. Cover Temperature Protection Digital Panel for adjusting the safe imits Required, Tro welding should stop when Welding Torch is removed supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, Tro Welding should stop when Welding Torch is removed supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, Tro Welding should stop when Welding Torch is removed supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, Tro Welding should stop when Welding Torch is removed supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, The Welding should stop when Welding Torch is removed safe limits Required, The Welding should stop when Welding Torch is removed safe limits Required; The Welding should stop when Welding Torch is removed safe limits Required; The Welding should stop when Welding Torch is removed safe limits	Wire Fe	eeder	
2 Wirefeed speed 1.5 to 18 mtr/min 3 Wire roll drive 4 4 Wire drive motor type Permanent Magnet DC 5 Wire feeder Motor Voltage 42 6 Wire feeder fitted with rollers 1.2&1.6 7 Wire spool capacity 15Kg or greater Soa socket will be provided. The connection from the socket is under the scope of the vendor 1 the scope of the vendor 2 Type of cooling Forced Air 3 Ingress protection IP 23 International Standard of 4 Certification State Welding Wire 5 Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8, 1.0, 1.2 & 1.6 6 Weight	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3 Wire roll drive 4 4 Wire drive motor type Permanent Magnet DC 5 Wire feeder Motor Voltage 42 6 Wire feeder fitted with rollers 1.2&1.6 7 Wire spool capacity 15Kg or greater Content	1	wire(mm)	0.8,1.0,1.2,1.6
4 Wire drive motor type Permanent Magnet DC 5 Wire feeder Motor Voltage 42 6 Wire feeder fitted with rollers 1.2&1.6 7 Wire spool capacity 15Kg or greater 6 SoA socket will be provided. The connection from the socket is under the scope of the vendor 1 Electrical requirement the scope of the vendor 1 Electrical requirement 2 Type of cooling 1 Forced Air 3 Ingress protection 1 P 23 International Standard of 4 Certification 1 Std. EN60974-1 Suitable Welding Wire 5 Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8,1.0,1.2 & 1.6 6 Weight 2 Sobg 2 For dB Additional Features Required 1 Automatic "Weld Stop" facility. 1 Required; The Welding should stop when Welding Torch is removed 2 Welding parameters 1 Required 2 Required 3 2T, 4T operating modes 1 Required 4 Error message should be displayed and the equipment must shut down if the supply voltage exceeds the positive or negative limits specified in the Technical Specifications 2 Required; Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits 2 Required; The Welding should stop when Welding Torch is removed 2 Protection 2 Required; The Welding should stop when Welding Torch is removed 2 Required; The Welding should stop when Welding Torch is removed 2 Required; The Welding should stop when Welding Torch is removed 3 2T, 4T operating Medical Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	Wirefeed speed	1.5 to 18 mtr/min
Solution	3	Wire roll drive	4
Solution	4	Wire drive motor type	Permanent Magnet DC
Type of cooling Forced Air	5	Wire feeder Motor Voltage	
General Electrical requirement 50A socket will be provided. The connection from the socket is under the scope of the vendor 2 Type of cooling Forced Air 3 Ingress protection IP 23 International Standard of 4 Certification Std. EN60974-1 Suitable Welding Wire 5 Diameter(in mm) Aluminum 1.2 - 1.6; Steel 0.8, 1.0, 1.2 & 1.6	6	Wire feeder fitted with rollers	1.2&1.6
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Solation State Solation Solation State State Solation State St	7	TT. 1	1 etc.
50A socket will be provided. The connection from the socket is under the scope of the vendor 2 Type of cooling Forced Air 3 Ingress protection IP 23 International Standard of Certification Stid. EN60974-1 Suitable Welding Wire 5 Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8, 1.0, 1.2 & 1.6 6 Weight <= 50 kg 7 Audio Noise emission <= 70 dB Additional Features Required 1 Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed Digital Panel for adjusting the Welding parameters Required 4 Fresh Tip Tranfer(FTT) Feature Required: Required; To avoid globule formation. Required, Error message should be displayed and the equipment must Shut down if the supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, Error message should be displayed and the equipment must Shut down if the temperature of the main power components exceeds the safe limits 1 Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed Technical Specifications Required, Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits Required; The Welding should stop when Welding Torch is removed Digital Panel for adjusting the Required; The Welding should stop when Welding Torch is removed	7	Wire spool capacity	15Kg or greater
50A socket will be provided. The connection from the socket is under the scope of the vendor 2 Type of cooling Forced Air 3 Ingress protection IP 23 International Standard of Certification Stid. EN60974-1 Suitable Welding Wire 5 Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8, 1.0, 1.2 & 1.6 6 Weight <= 50 kg 7 Audio Noise emission <= 70 dB Additional Features Required 1 Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed Digital Panel for adjusting the Welding parameters Required 4 Fresh Tip Tranfer(FTT) Feature Required: Required; To avoid globule formation. Required, Error message should be displayed and the equipment must Shut down if the supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required, Error message should be displayed and the equipment must Shut down if the temperature of the main power components exceeds the safe limits 1 Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed Technical Specifications Required, Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits Required; The Welding should stop when Welding Torch is removed Digital Panel for adjusting the Required; The Welding should stop when Welding Torch is removed			
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Suitable Welding Wire Diameter(in mm) Aluminum 1.2 – 1.6; Steel 0.8,1.0,1.2 & 1.6 6 Weight <= 50kg 7 Audio Noise emission Additional Features Required 1 Automatic "Weld Stop" facility. Digital Panel for adjusting the welding parameters 2 Welding parameters Required 3 2T, 4T operating modes 4 Fresh Tip Tranfer(FTT) Feature Protection Required; To avoid globule formation. Required; Error message should be displayed and the equipment must Shut down if the supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required; Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits 1 Automatic "Weld Stop" facility. Digital Panel for adjusting the Required; The Welding should stop when Welding Torch is removed Required; The Welding should stop when Welding Torch is removed Required; The Welding should stop when Welding Torch is removed	4		C.J EN(0074 1
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Under Voltage and Over Voltage 5 Protection Required; Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits Over Temperature Protection Automatic "Weld Stop" facility. Digital Panel for adjusting the supply voltage exceeds the positive or negative limits specified in the Technical Specifications Required; Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the safe limits			
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1 Automatic "Weld Stop" facility. Required; The Welding should stop when Welding Torch is removed Digital Panel for adjusting the	6	Over Temperature Protection	
Digital Panel for adjusting the		•	
2 welding parameters Required		Digital Panel for adjusting the	
			Required
3 2T, 4T operating modes Required	3	2T, 4T operating modes	Required
4 Fresh Tip Transfer(FTT) Feature Required; To avoid globule formation.	4	Fresh Tip Transfer(FTT) Feature	
Required; Error message should be displayed and the equipment must Shut down if the			
Under Voltage and Over Voltage supply voltage exceeds the positive or negative limits specified in the			supply voltage exceeds the positive or negative limits specified in the
5 Protection Technical Specifications	5	Protection	Technical Specifications
Required; Error message should be displayed and the equipment must down if the temperature of the main power components exceeds the			
6 Over Temperature Protection safe limits	6	Over Temperature Protection	

		Required;Error message should be displayed and the equipment must
		shut down if any one of the three phase supply line is absent (single-phasing prevention /
7	Single Phasing Protection	protection)
8	Wire Feeder	Wire Feeder along with 5-Meter Long Interconnection Cable&Hose Fitted with 1.2&1.6 Drive Roller
9	Trolly	Required;To move the machine inside the Welding Room
10	Gas Preheater	Required
11	Earthing Cable Assembly of 5 Meter	Required
12	Single stage C02 Regulator with Flow Guage	Required
13	Remote Controller	Required;For setting Voltage and Current
	TIG	(300A AC and DC) - 1 Quantity
Power S	Source	
1	Supply voltage,Phase,Frequency	415V ,3Phase,50 Hz
2	Max.Input KVA @100% Duty Cycle	7.5 or Less (TIG mode)
3	Max.Input KVA @60% Duty Cycle	11 or Less (TIG mode)
4	Power Factor	0.92 or Greater
5	Efficiency	82 or Greater
Output		
1	Open circuit Voltage	75V DC or Less
		20-300A(AC TIG mode) or larger
2	Welding Current Range	10-300A(DC TIG mode) or larger
	Welding Current at 40 deg Celcius,10 minute cycle	
	@60% Duty Cycle	>= 300A(TIG)
	@100% Duty Cycle	>= 230A(TIG)
General	1	
1	Remote Controller/Foot switch	For current setting
		2T/4T/SPOT/CYCLE Selection switch
		DC+/DC-/AC welding method selection switch
		Gas check switch
		Pulsee/Normal mode selection switch
		HF ON/HF OFF selection switch
		Normal/Foot Selection Switch
2	Front Panel Controls	Torch switch Connector

		Foot switch connector
		Remote connector
		Gas Out
		CAM -LOCK Output connector
		Mains ON GREEN Color Indication
		TRIP RED colour LED for indication of Machine is under Protection Mode
		Water/Gas cooled selection switch
		Encoder for selected parameter value Increment/Decrement
		Menu switch for selecting all functions Gas Pre Flow, Start current
3	Electrical requirement	32A socket will be provided. The connection from the socket is under the scope of the vendor
4	Cooling	Forced Air
5	Degree of Protection	IP 23
7	Weight	<50Kg
8	Class of Insulation	Н
Welding	g Torch	
	Maximum Current Carrying Capacity @60% Duty Cycle	
	Under CO2	>=400A
1	Under Argon Rich mixture	>=320A
2	Torch Length	>=4Meters
3	Cooling	Gas Cooling
	Suitable for wires diameters	
	Steel	0.8,1.2,1.6 mm
4	Aluminium	1.2,1.6 mm
Addition	nal Features Required	
	•	Required;Error message should be displayed and the equipment must
	Under Voltage and Over Voltage	Shut down if the supply voltage exceeds the positive or negative limits specified in the
1	Protection Protection	Technical Specifications
		Required; Error message should be displayed and the equipment must
2	Over Temperature Protection	down if the temperature of the main power components exceeds the safe limits
		Required;Error message should be displayed and the equipment must
		shut down if any one of the three phase supply line is absent (single-phasing prevention /
3	Single Phasing Protection	protection)
4	Water Cooled TIG Torch	Required

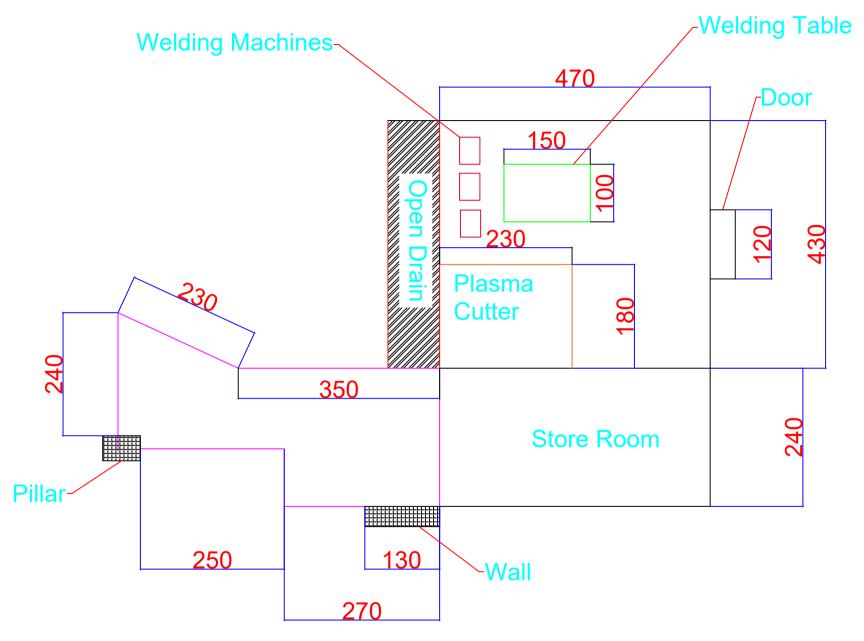
	Gas Hose with end connector	
5	assembly of 5 meter	Required
	Earthing cable assembly with	
6	clamp and cam lock connector	Required
	Trolly assembly for mounting	
7	power source and water cooling unit	Required
	Single stage Argon Gas Regulator with Flow Guage	
9	Water Cooling Unit	Required
Input	Ar	c Welding (200A) - 1 Quantity
	Supply voltage,Phase,Frequency	240V,Single Phase,50Hz
	Max Input KVA	
	@100% Duty cycle	5 kVA or Lesser
	@60% Duty cycle	6 kVA or Lesser
2	@35% Duty cycle	9 kVA or Lesser
Output		
1	Open circuit Voltage	55V DC +/-5V or Lesser
2	Welding Current Range	15-200A or greater
	Welding Current at 40 deg Celcius,10 minute cycle	•
	@100% Duty Cycle	120A or higher
	@60% Duty Cycle	150A or higher
3	@35% Duty Cycle	200A or higher
General		
1	Suitable for welding electrode size(diameter in mm)	2.5,3.2,Intermittent 4
2	Ingress protection	IP 21
	•	Forced Air
		Class F
7		
		Encoder for selected parameter value increase/Decrease
		Mains ON GREEN Color Indication
		TRIP RED colour LED for indication of Machine is under Protection Mode
		Digital Display of Current
6		20A socket will be provided. The connection from the socket is under the scope of the vendor
	_	< 5 kg
	nal Features Required	

	It should be suitable for TIG and	
1	MMA Welding Operation	
	It should be suitable for Scratch	
2	Start TIG in 'TIG' mode for	
2	normal operation	
	A	rc Welding(400A) - 1 Quantity
Input		
1	Supply voltage,Phase,Frequency	240V,Single Phase,50Hz
	Max Input KVA @415V	
	@100% Duty cycle	14 kVA or Lesser
	@60% Duty cycle	19 kVA or Lesser
2	@ No load	0.24 kVA or Lesser
3	Power Factor	0.94 or Greater
4	Efficiency	85 or Greater
Output		
1	Open circuit Voltage	maximum of 85V DC
2	Welding Current Range	10-400A
	Welding Current at 40 deg	
	Celcius,10 minute cycle	
	@100% Duty Cycle	310A or higher
3	@60% Duty Cycle	400A or higher
General		
	Suitable for Welding Electrode	0.500.45 1.60
	Size(Diameter in mm)	2.5,3.2,4.5 and 6.3mm
2	Arc force setting Current Display (Set current and	Adjustable potentiometer
3	Actual current	3 digit –7 segment digital panel meter
4	Ingress Protection	IP23
1	Electrical requirement	32A socket
1	Cooling	Forced Air
1	Insulation	Н
	Welding Output Terminals	Stud type for Lug type cable connections
	Weight	<= 50kg
	nal Features Required	
Traditio	It should be suitable for TIG and	
1	MMA Welding Operation	
	It should be suitable for Cellulosic electrodes and long	Capable of welding with all types of Cellulosic electrodes including
2	Welding Cables	6010,7010G,8010G
	_	Required; Error message should be displayed and the equipment must Shut down if the
	Under Voltage and Over	supply voltage exceeds the positive or negative limits specified in the
3	Voltage Protection	Technical Specifications

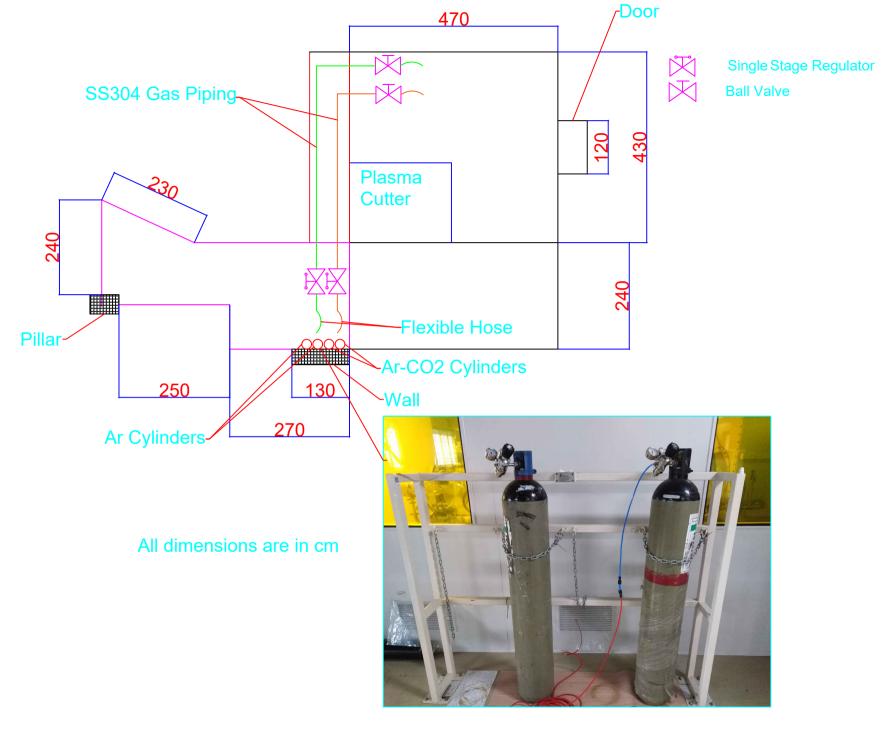
6 welding and return cables	
	Welding Table - 1 Quantity
General: Modular slotted Table against heavy fabrication Load	e with highly rigid base frame specially designed to withstand with well machined surface
2 Surface Material	STEEL of Standard IS 2062 or Higher
3 Frame Material	STEEL of Standard IS 2063 or Higher
4 Surface Hardness	HV 450 or more
5 Loading Capacity	>=8 Ton
6 Top Plate Thickness	24mm or Greater
7 Hole Diameter	16mm
8 Hole Separation	50+-0.038mm
9 Mobility	The table should be on lockable wheels for easier mobility
10 Dimension	1500*1000*700mm(Length*width*Height)
Coefficient of Friction	0.37
Nitride gasing Depth	0.01-0.02mm
13 Flatness	1000mm
Top Surface plate with optimum toughness value should ensure	
zero crack formation against	
fatigue and durability of table	Required
Table top should be anti- corrosive, anti spatter and ware	
resistive	
15 platform	Required
Please see Annexture-4 for Drawing	
Blower Unit - 1	
1 Operating Airflow	>= 3,000 m3/h
2 Operating negative pressure	1500 Pascal
2 Operating negative pressure 3 Voltage	
2 Operating negative pressure	1500 Pascal
2 Operating negative pressure 3 Voltage Unit should be supplied with 2 nos of floor mounted extraction arm of diameter >=125mm and	1500 Pascal
2 Operating negative pressure 3 Voltage Unit should be supplied with 2 nos of floor mounted extraction arm of diameter >=125mm and 4 2 meters in length.	1500 Pascal
2 Operating negative pressure 3 Voltage Unit should be supplied with 2 nos of floor mounted extraction arm of diameter >=125mm and 4 2 meters in length. Unit will be positioned outside of the welding room.	1500 Pascal
2 Operating negative pressure 3 Voltage Unit should be supplied with 2 nos of floor mounted extraction arm of diameter >=125mm and 4 2 meters in length. Unit will be positioned outside of the welding room. Appropriate ducting needs to be	1500 Pascal
2 Operating negative pressure 3 Voltage Unit should be supplied with 2 nos of floor mounted extraction arm of diameter >=125mm and 4 2 meters in length. Unit will be positioned outside of the welding room.	1500 Pascal

	Gas Piping System & Installation		
1	Supply and Installation of combination of rigid and flexible hose piping system. Please see Annexture 1&2 for Drawing	is 1 iping System & Instanation	
2	Single stage Preassure Regulator	2 Nos	
	Ball Valves	2 Nos	
	Gas Piping	SS304 Stainless steel	
	Cylinder bank with chain lock provisions (capacity to keep 4 cylinders)	Required	
		Consumables	
1	King Apron	3 Nos	
2	King Gloves MP	5 Nos	
	Gloves	5 Nos	
4	Leg Guard	3 Sets	
5	Sleeve Guard	3 Sets	
6	Vision Glass Clear	3 Nos	
7	Vision Glass Smoke	3 Nos	
8	Chipping Hammer	2 Nos	
9	Welding Helmet	3 Nos	
10	Auto Darkening Welding Helmet	3 Nos	
	ING CONSUMABLES	5 105	
	Argon CO2 80:20 Cylinder with 7 Cubic capacity	2 Nos	
2	Argon Cylinder with 7 Cubic capacity	2 Nos	
3	MIG WIRE MS	ER70S6 1.20MM 15Kg	
	TIG Filler Wire	ER 70S2 TIGFIL 1.60MM-20Kg	
5	TIF Filler Wire TIGFIL	4043ER4043 1.60MM-8Kg	
6	Welding electrode	E 6013 3.15X350MM -15Kg	

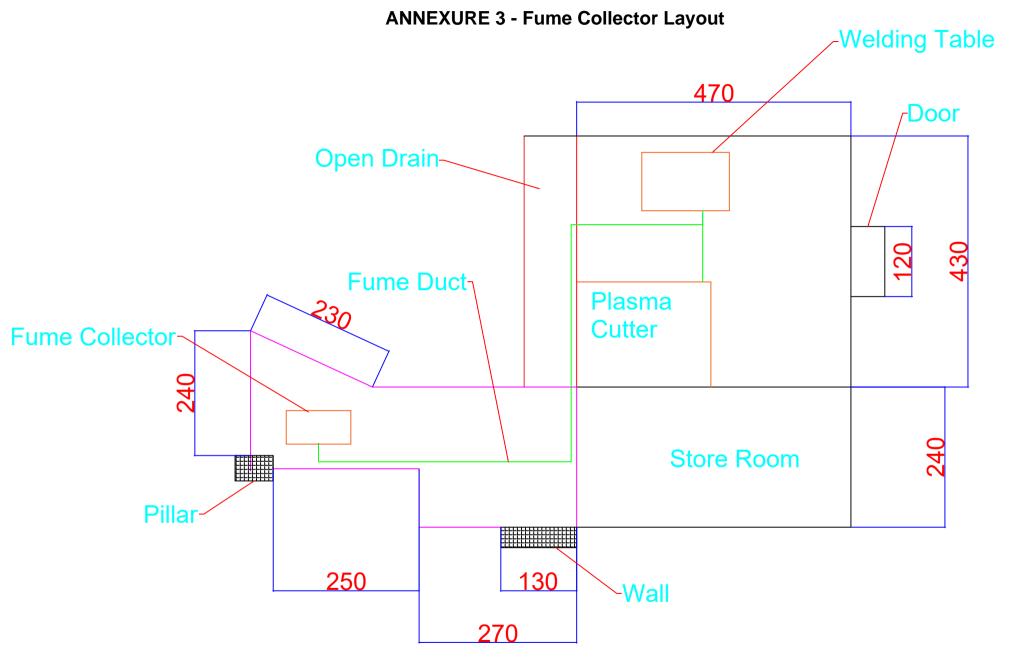
ANNEXURE 1 - General Layout



All dimensions are in cm

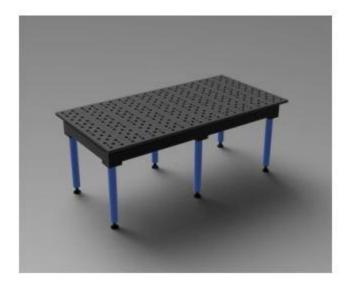


ANNEXURE 2 Gas Piping Layout

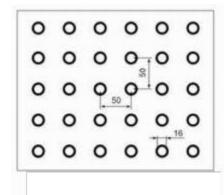


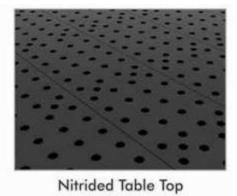
All dimensions are in cm

ANNEXURE-4



Welding Table





FORMAT FOR SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA (TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)

Format for Affidavit of Self-Certification regarding Minimum Local Content in line with "Make in India" Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)

Date: I/We Resident	S/o, D/o, W/o,				
Hereby s	Hereby solemnly affirm and declare as under:				
That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (hereinafter PPP-MII order) of Government of India issued vide Notification No:P-45021/2/2017 -BE-II dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any and					
	local content for all inputs which constitute the said goods/services/works has been verified by me and I am ole for the correctness of the claims made therein.				
Tick (✓	Tick (✓) and Fill theAppropriate Category				
	I/We [name of the manufacturer] hereby confirm in respect of quoted items(s) that				
	Local Content is equal to or more than 50% and come under "Class-I Local Supplier" category.				
	I/We [name of the manufacturer] hereby confirm in respect of quoted items(s) that				
	Local Content is more than 20% but less than 50% and come under "Class-II Local Supplier" category.				
	I/We[name of the manufacturer] hereby confirm in respect of quoted items(s) that				
	Local Content is less than or equal to 20% come under "Non-Local Supplier" category.				
Authoriz	on behalf of(Name of firm/entity)\ ed signatory (To be duly authorized by the Board of Directors) Iame, Designation and Contact No.>				

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

$\frac{\text{UNDERTAKING BY THE BIDDER}}{\text{(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)}}$

We here by accept all the Terms and Conditions of the Tender Document and strictly adhere to the same in the event of getting Purchase order. We also declare that the Technical and Financial Bids submitted by us has NO DEIVATION from the Tender Terms and Conditions.

We here by accept that the PRICES OF THE EQUIPMENT/ITEMS QUOTED IS AS PER THE CLAUSE NO.6 OF THE TENDER DOCUMENT.
We hereby undertake that there are pages, serially numbered, in the submitted tender including the supporting documents. (Please serially number all the pages including blank page, if any).
We have submitted our principal's exclusive authorization letter which is specific for this tender No dated
Note: This letter should be on the letterhead of the quoting firm and should be signed by a Competent Authority.
ANNEXURE-II
FALL CLAUSE NOTICE CERTIFICATE (TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)
This is to certify that we have offered the maximum possible discount to you in our Quotation No dated (Please do not reveal the prices here, which will lead to outright rejection of
The prices charged for the Stores supplied under tender should under no event be higher than the lowest prices at which the party sells the items of identical description to any other Govorganization/PSU's/Central Govt, /State Govt. Autonomous bodies/Central/state Universities/Central/State Educational Institutions, failing which the "FALL CLAUSE" will be applicable. The institute will look into reasonable past period to ensure this. In case, if the price charged by our firm is found to be more, IIT Palakkad will have the right to recove the excess charged amount from the subsequent/unpaid bill of the supplier.
Note: This letter of authority should be on the <u>letterhead of the quoting firm</u> and should be signed by Competent Authority and having the power of attorney.