MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

No. F5(608)ST/MNIT/CHEM/2021

Phone : 0141-2713312,2713352

NOTICE INVITING QUOTATIONS

Registrar, MNIT, JLN Marg, Jaipur invites sealed tenders for the supply of "**Equipment**" for **Chemical Engineering Department** of this Institute in **Two Bid System (Technical & Financial bids in separate envelop)** as per schedule given below.

Event	Date & Time
Download of Tender	21.12.2021
Pre-Bid Meeting Date & Time	28.12.2021 by 2.00 PM
Bid Submission Last Date& Time	11.01.2022 by 2.00 PM
Technical Bid Opening Date & Time	11.01.2022 at 3.00 PM
Financial Bid Opening	Will be intimated later on
Earnest Money	The attached certificate (Annexure – D) is
	to be furnished along with your tender in
	respect of bid security. Failing this your
	offer will not be considered.

Quotation must be enclosed in a properly sealed envelope address to the MNIT, Jaipur with kind attention to **Deputy Registrar** (**S&P**), **MNIT**, **Jawahar Lal Nehru Marg**, **Jaipur -302017** (E-mail address <u>storepurchase@mnit.ac.in</u>) by designation and not by name. The quotations must be super scribed "Quotations for the supply of **Equipment** ------ as called for in Tender Notice No. ------ dated ______"DUE ON------ AT -----AM/PM. The Quotation must reach on or before ------AM/ PM on or before the due date and time mentioned in the tender notice/tender document. The documents must be dropped in the tender box available in Central Store during office hours (9.30am to 6.00pm) on all working days. Bids delivered to any other place or any individual shall not be considered as valid document. Quotations sent by e-mail will not be considered valid. The complete Tender document can be viewed and downloaded only from the website (www.mnit.ac.in) and CPPP site <u>https://eprocure.gov.in/epublish/app</u> during the tender period.

GENERAL TERMS & CONDITIONS

- 1. THE RATES QUOTED SHOULD BE F.O.R. JAIPUR inclusive of all charges related to transportation from your end to MNIT, Jaipur in Indian rupees. For imported items, the rates are to be quoted CIF(Cost, Insurance & Freight) Delhi only in freely convertible foreign currencies. In case the rates are quoted CIF (Cost, Insurance & Freight) New Delhi, then it will be the responsibility of the supplier to intimate us well in advance prior to dispatch and submission of all the relevant documents in time which will be required in clearing the consignment from Custom. If, there is delay in sending the documents and demurrage is imposed, then it will be in the account of foreign supplier. Kindly note that if any amendment is required in LC, after its establishment, the Bank Charges in this respect will be in the account of beneficiary only. Bid shall always be both in the figures and words. The words "No quotations" should be written across any or all of the items in the schedule for which a tender does not wish to tender.
- As far as possible, bid should be given for goods of India manufacture which are readily available. Foreign goods quoted and proposed to be supplied should be covered by normal import quota of the dealer. This institute is exempted from payment of custom duty.
- 3. Detailed specifications and "make" of each item should be clearly given supported by the illustrated pamphlets wherever possible. Bid without specifying the make and other particulars may be rejected. The accessories included in the equipment should also be clearly mentioned.
- 4. Losses or damage in transit will be in to the account of the supplier in case of rates **F.O.R. JAIPUR.** The supplier may, if he so desires, get the goods insured
- 5. The payment for the ordered items would be made after the articles have been received, found in order and its successful installation.Payment will be made by RTGS to indigenous suppliers. Kindly send the RTGS details and cancelled cheque along with the Invoice.**The payment to foreign supplier will be made through FDD/Wire Transfer OR Letter of Credit as the case may be.** However 90 percent payment will be released after receipt of items and remaining 10 present after its successfully installation
- 6. Your rates should be valid at least for three months (minimum) from the last date of opening of bid.
- 7. All legal proceedings, if necessity arises to institute may be any of the parties (Institute or Contractor/Supplier) shall have to be lodged in the courts situated at Jaipur and not elsewhere.
- 8. The institute is not bound to accept the lowest tender and may reject any tender or any part of the tender without giving any justification for such an action.

9. (a) The Penalty Clause is as under:-

If the seller fails to deliver any or all of the Goods/Services within the original /re-fixed delivery period specified in the Purchase Order, this Institute will be entitled to deduct/recover the Liquidated Damages for the delay at the following percentage:

(i)	Delay up to one month		1%
(ii)	Delay exceeding one month but		20%
	not exceeding two month		2.70
(iii)	Delay exceeding two month but	50/	
	not exceeding three month		570
(iv)	Delay avaading three month		5% for each month and part there of subject
(1V)	Delay exceeding three month		tomaximum 10%

(b) In case of failure to supply the goods within the prescribed time and in accordance with the specifications give in the Quotations, the institute shall be free to cancel the order and make purchases from the next higher tenderer or from the open market as the case may be. In that case the loss sustained by the institute shall be recovered from the defaulting supplier. The institute will be at liberty to recover the loss from the permanent earnest money/or any other pending claims of the supplier without prejudice to its general right to affect recovery from the supplier.

- 10. The prospective bidders can be those who are the manufacturers of the equipment. For items manufactured outside India, the manufacturer itself can be a bidder or its authorised Indian agent can bid on behalf of its Principal that is the manufacturer.
- 11. In the event, the country of origin of goods is India, only the manufacturers shall be considered eligible for bidding. Authorised agents of Indian manufacturers may be permitted to submit the bid, provided the concerned manufacturer states that as its policy, it does not bid itself in India and that there is no qualitative difference between manufacturer and its agent as bidder in respect of quality of supplies, cost, and responsibility of maintenance and servicing. The Indian manufacturer must describe the alternatives in clear terms, in the event the bidding agent ceases to continue as agent of the concerned manufacturer within the stipulated warrantee period.
- 12. If any Indian manufacturer requires importing an essential part from a foreign country, the said company may be given to enjoy the benefit of customs duty exemption with the aid of CDEC of MNIT, Jaipur provided the import of the concerned item is done on behalf of MNIT, Jaipur.

13. THERE IS TWO BID SYSTEM:-

(TECHNICAL AND FINANCIAL BID, both bids should be submitted in separate envelopes):

(A) Technical Bid:

- a) Bidder must be a manufacturer/authorized distributor/ Dealers and they have to enclose a certificate of authorization of manufacturer in format at Annexure A (Authorization certificate in any other format will not be valid).OEM itself or any one authorised dealer on behalf of OEM may participate in bid. OEM and its dealers both may not participate at the same time.
- b) The manufacturers should supply documentary proof i.e. Registration with the Registrar of Industries, National Small Scale Industries Corporation or with penal of MNIT in case of

manufacturer. Offers other then the manufacturers should be supported with an authority letter from the manufacturers, authorizing them to quote rates standing guarantee for the satisfactory execution of supply orders failing which offers are liable to be ignored.

- c) One declaration by the Manufacturer to the extent that in case of failure of its local agent /office to provide service support to the satisfaction of MNIT Jaipur, it shall make immediate arrangement for required service support.
- d) Bidder should enclose technical compliance from the Manufacturer. The specifications of items should be strictly as specified. Deviation, if any may please be mentioned separately. If there is no deviation than it should be mentioned as "No Deviation".
- e) The leaflets catalogue, related to quoted equipment/model etc. should be sent invariably, so that a proper evaluation of the equipment offered is possible.
- f) Mention must be made of the pre-installation requirements for the equipment quoted viz. ambient temperature, humidity, weather specifications, power specifications, civil works etc. When items are provided full performance satisfaction should be demonstrated.
- g) Bidder must enclose the acceptance of terms and conditions and must enclose the duly signed and stamped tender document.
- h) All the Annexure enclosed should be duly filled up and signed.
- i) Please attach proof/certificate of each condition required in the tender document.
- j) The firm should provide approximate area required for the setting/installation of the machine / equipment.
- k) Installation support and demonstration for utilizing the equipment is also needed
- To mention, if any additional setup/infra is required before installation of equipment (esp. Foundation etc. For larger m/c)
- m) Bidder shall furnish the annexure- D duly filed and signed against EMD

(B) Financial Bid:

- a) The rates to be quoted by the bidder should be clearly mentioned without any overwriting
- b) If there is any cutting in the price box, issued be duly signed
- c) The bidders should clearly mentioned their payment terms & conditions
- d) The GST or any other taxes including Custom duty Etc. should be mentioned clearly
- 14. **Delivery Period:-**The ordered quantity of stores must be delivered within 12 to 14 weeks in the case of indigenous equipment and 14 to 16 weeks in the case of imported equipment after opening of L.C. / FDD and Wire Transfer. The extention of delivery period after placing the PO, if required, will be considered only on genuine reasons and proper justifications only.
- 15. <u>Installation:</u> Successful BIDDER shall depute concerned specialist, for supervision of erection& commissioning of the machine to be carried out as and when necessary. The successful BIDDER shall make necessary arrangements during the entire warranty period at their own expenses for stay, transport and other expenses of their specialist during their stay in Jaipur;
- 16. <u>Warranty:</u> All the bidders are required to provide minimum <u>01 Year + 60 Days</u> warranty on the quoted equipment / instrument

17. **Performance Bank guarantee**

Successful Bidder has to Provide Performance security @ 3% of the equipment cost, valid for stipulated warranty period plus 60 days which should be in the form of Bank's Guarantee from a commercial bank in format at **Annexure** – **B**. Warranty will cover repair/replacement of all defective parts, if any, with the same or equivalent make for any part removed. Maintenance will be provided at site. The supplier will provide after sale service during the warranty period from nearest place to installation. The supplier will attend the complaint within 24 working hours and not beyond 5 working days.

- 18. **EARNEST MONEY:** The attached certificate (Annexure D) is to be furnished along with your tender in respect of bid security. Failing this your offer will not be considered.
- 19. **Jurisdiction:** The Courts of Jaipur alone will have the jurisdiction to try any matter, dispute or difference between the parties arising out of this tender/contract. It is specifically agreed that no Court outside and other than Jaipur court shall have jurisdiction in the matter.

20. <u>Arbitration Clause: -</u> In the eventuality of any dispute, the sole Arbitrator shall be MNIT, Jaipur and his decision shall be binding on all the parties.

- 21. **Force Majeure** : Any failure of omission or commission to carry out the provision of this contract by the supplier shall not give rise to any claim by one party, one against the other, if such failure of omission or commission arises from an act of God; which shall include all acts of nature calamities such as fire, flood, earthquake, hurricane, or nay pestilence or from civil strikes, compliance with any statute and / or regulations of the Government, lockouts and strikes, riots, embargoes or from any political or other reason beyond the supplier's control including war (whether declared or not) civil war or stage of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.
- 22. **<u>Risk &Cost</u>** : In the event of failure to carry out the contractual obligations, within the stipulated period or extended period and determination of the contract for any reason, violation of warranties etc. the MNIT Jaipur shall have the right to carry out the unfinished obligation at the exclusive cost and risk of the bidder/firm, after due notice and the difference so accrued shall be recoverable from the bidder/firm.
- 23. The material found defective upon opening by the supplier representative in presence of Central stores personnel / indenter of MNIT Jaipur or not as per tendered specifications will have to be lifted back by the supplier at their own cost and risk. The material lying in MNIT Jaipur premises would be at supplier's risk and cost.
- 24. <u>**Custom Duty</u>**: The MNIT, Jaipur is a public funded research Institution registered with Department of Scientific & Industrial Research and concessional Custom Duty @5.15% is applicable for the goods purchased for research purpose vide Government of India Notification No.51/96-Customs dated 23.07.1996</u>

25 <u>GST:</u>MNIT, Jaipur is a public funded research Institution registered with Department of Scientific & Industrial Research for concessional GST @5% applicable for the goods purchased for research purpose vide Ministry of Finance (Department of Revenue) Notification No.47/2017-Integrated Tax dated 14.11.2017 & Notification No.45/2017-Central Tax dated 14.11.2017.

26. Bid Validity: 90 days (Minimum)

- 27. **Opening of Bids:** The Bids shall be opened by authorised officials of the institute as per schedule given in Date Sheet.In case, the day of bid opening is declared a holiday by the government, the Bids will be opened on the next working day at the same time. No separate intimation shall be sent to the bidders in this regard.Only opening of bids and accepting the bid will not mean that the firm is technically or financially qualified.
- 28. **Institute right to vary Quantities at Time of Award or later** : Institute reserves the right at the time of awarding the contract to increase or decrease the quantity of goods and services originally mentioned in our NIT without any change in unit price or other terms and conditions.
- 29. While submitting the tender, the **GST Registration No.**, **PAN No.**&**E-mail Address** is to be mentioned by the bidder positively. Failing this, there bid will be treated as non responsive.
- 30. <u>After Sales Service Certificate</u> : After sales service certificate is to be furnished by successful bidder in the prescribed form as **annexure** –**C**

31. **PREFERENCE TO MAKE IN INDIA:**

This Order is issued pursuant to Rule 153 (iii) of the General Financial Rules 2017

Public Procurement (Preference to Make in India), Order 2017 and Public procurement policy for micro and small enterprises (MSEs) as per guideline shall be applicable. For details visit website: www.msme.gov.in

In reference to the Govt. of India fresh initiative "Atmanirbhar Bharat" only items with minimum 20% domestic value addition / local content can participate in public procurement unless global bid are invited. Also items with more than 50% local content will get purchase preference over other items.

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. Bidder has to mentioned whether they fall in Class-I local supplier, Class-II or Non – Local supplier.

<u>Class-I local supplier</u>, means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%.

<u>Class-II local supplier</u>, means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.

<u>Non-Local supplier</u>, means a supplier or service provider, whose goods, services or works offered for procurement. Has less than or equal to 20%.

Verification of Local Content:-

The Class-I local supplier / Class-II local supplier, shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for Class-I Local supplier / Class-II local supplier, They shall also give details of the locations (s) at which the local value addition is made.

The above mentioned documents at Sl. 1. (i), (ii) are to be submitted along with bid positively.

32. Specification Enclosed as annexure – E

Deputy Registrar (Store & Purchase)

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date	: [insert date (as day, month and year) of Bid Submission]
Tender No.	:[insert number from Invitation For Bids]
То	: [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer],who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder]to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods],and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.20 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on ______ day of ______, ____ [insert date of signing]

*(Not required in case the bidder itself is the manufacturer)

PERFORMANCE BANK GUARANTEE

(To be executed on Stamp Paper of Rs. 100/- or such higher value as per the Stamp Act of the State in which the Guarantee is issued. Stamp Paper should be in the name of the Bank Issuing the Guarantee.)

BANK GUARANTEE NO. : DATED :

Dear Sirs,

for satisfactory working of the

...... AND WHEREAS at the request of the supplier, the Bank executes these presents.

- 3.0 THIS DEED WITHNESSETH AND IT IS HEREBY AGREED AND DECLARED BY AND BETWEEN PARTIES HERETO AS FOLLOWS:
- 3.2 In consideration of the aforesaid premise and at the request of the supplier, we the Bank hereby irrevocably and unconditionally guarantee that the supplier shall perform in an orderly manner their contractual obligations in accordance with the terms and conditions set forth in the Purchase order dated and in the event of the supplier's failure to do so, the Bank unconditionally pay to the MNIT, Jaipur on demand, any amount up to the value mentioned in Clause 3.1 above without any reference to the supplier and without questioning the claim.
- 3.3 The guarantee herein shall remain in full force for a period of two months beyond the warranty period from the date of certification by the MNIT, Jaipur of successful installation and commissioning of the equipment/ service contracted. Date of start of warranty period will be notified by MNIT, Jaipur to the Bank.
- 3.4 The decision of the MNIT, Jaipur regarding the liability of the Bank under the guarantee and the amount payable there under shall be final and conclusive and binding on us without Page 9 of 23

question. The Bank shall pay forthwith the amount demanded by the MNIT, Jaipur not withstanding any dispute, if any, between the MNIT, Jaipur and the supplier.

- 3.5 The Bank further agrees that the guarantee herein shall remain in full force during the pendency of aforesaid period mentioned in Clause 3.3 above and also any extension of the guarantee which has been provided by the Bank for this purpose beyond the aforesaid period provided, further, that if any claim accrues or against the Bank by virtue of this guarantee, should be lodged with us within a period of 60 days from the date of expiry of the guarantee period.
- 3.6 This Guarantee shall not be affected by any change in constitution of the supplier, MNIT, Jaipur or us not shall it be affected by any change in constitution or by any amalgamation or absorption or reconstruction thereof otherwise, but will ensure for and be available to and endorsable by the absorbing amalgamated company or concern.
- 3.7 The MNIT, Jaipur has the fullest liberty without affecting the guarantee to postpone at any time or from time any of the powers exercisable by it against the supplier, either to enforce or forbear the clause governing guarantee in the terms and conditions of the said contract and Bank shall not be released from its liabilities under the guarantee by any matter referred to or by reason of time being given to the supplier or any other forbearance, act or omission on the part of the MNIT, Jaipur or any material or things whatsoever which under the law relating to sureties shall but for the provisions hereof have the effect of so releasing the Bank from its liabilities.
- 3.8 We further agree that the MNIT, Jaipur shall have the fullest liberty without affecting in any way our obligations hereunder with or without our consent or knowledge to vary any of the terms and conditions of the said contract or to extend the time of delivery from time to time.
- 3.9 The Bank undertakes not to revoke this guarantee during its currency except with the previous consent in writing of the MNIT, Jaipur.
- 3.10 We further agree that in order to give full effect to the guarantee herein contained MNIT, Jaipur shall be entitled to act as if we were its principal debtors in respect of its claim against the Supplier hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of suretyship and other rights if any which are in any way inconsistent with the above provision of this Guarantee.

COUNTERSIGNED

Signature	:	Signature	:
Name	:	Name	:
Designation	:	Designation	:
Organization	:	Organization :	

AFTERSALE SERVICE CERTIFICATE

From:

То

The Registrar, Malaviya National Institute of Technology (MNIT), Jaipur

Whereas, we M/s (Bidder Name) are established & reputable manufacturers (Make of items) of [items name] having service offices at Delhi, Jaipur and in the state of Rajasthan. Details are as under:

Sr No	Address of Service Centre	Phone No	Number of Engineers
51.110.		Those Ivo.	Tumber of Englicers
1.			
2.			
3.			

We do hereby confirm that:

Services including repair/replacement of defective parts will be done by us. Replacement of defective Systems/parts will be done by equivalent or better systems/parts of the same make. We will attend all the complaints/service calls within 24 working hours and not beyond 5 working days. Down time will not exceed beyond 5 working days. In case, down time exceed 5 working days then we will extend the warranty period of that item(s) double of the down time.

(Signature)

Name

Designation :

(Head or Senior Executive of Firm)

:

Address:Phone No:Fax No:.Mobile No:

Date:

Tender No._____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am / We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn / modified /amended, impairs or derogates from the tender, my/ our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed:(insert signature of person whose name and capacity are shown)In the capacity of(insert legal capacity of person signing the bid securing Declaration)

Name:(insert complete name of person signing he Bid Securing Declaration)Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)Date on ______ day of ______ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Annexure – E

Sr.	Name of	Specifications	
No.	Equipment	-	of Units
1	Crystalliser	 Crystallisation vessel with jacket for heating and cooling , vessel filling and drain arrangement Solution concentration measurement by conductivity meter Vacuum filtration assembly Hot air oven for crystal drying Temp: up to 150°C Size: 18" x 18" x 18" SS partition: 2 Sieve shaker with complete set of sieves (8", sieve size) , Mesh size: 60, 85, 100, 150, 200, 300, 400, 500 Sieves MOC: Brass 	01
2	CSTR in Series (stand alone.)	 Weighing balance with 2 digit accuracy (max capacity 250 gms) Reactor (3Nos.) : Material Stainless Steel, Capacity 1 Ltr.(Approx.) Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor Feed Tank (2Nos.) : Material Stainless Steel, Capacity - 20 Ltrs. (Approx.) Feed Circulation : By Peristaltic Pump (2Nos.) Piping : Stainless Steel and Silicon pipe Control Panel comprising of: Standard make on/off switch, Mains Indicator etc. Operating manualAn English instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint. Two and half feet height SS stand for the equipment 	01
3	Thermal Conductivity of Liquid	Liquid chamber-Dia-165 mm SS-304 Cooling chamber for water circulation: SS-304 make Heater: Diameter 150 mm sandwiched between copper plates Testing material – Capillary: 10 MM Diameter and 150 mm long Thermal conductivity range -0.05-0.75 w/m. ⁰ K Heater capacity-1 KW Insulation- Ceramic wool Control panel comprising of: PID Controller: 0-200°C Energy meter: Digital type for power measurement Digital Temperature Indicator 0-200°C with multichannel switch, Temperature sensor- RTD PT-100 type (minimum 6 no) Should Provide MS Cabinet to accommodate slab assembly. The whole Set-up should well designed and arranged on a rigid structure painted with Industrial PU paint. Equipment should provide with painted SS table for setup support.	01
4	Weighing Balance	Readability :0.1 mg or 0.0001 g Operation: Touch screen, keys for important basic functions Weighing capacity [g]: 2.1 Typical response time [<s]: 10<br="">Repeatability [<±mg]: 0.00025 Linearity [<±mg]: 0.0009</s]:>	01
5	Double Distillation Unit	Double stage glass (quartz) distillation unit, Distillation water capacity should be 4 lit/hr, Distillation unit type should be horizontal, Condenser material should be quarts glass. Electrical requirement should be 230 Volts 50/60 Hz Single phase, pH value should be 6.9-7.0, Conductivity (µs/cm) should be less than	01

		1,Biological activity should be Pyrogen free, Organic matter should	
		be nil, Total solids should be less than 0.01 mg/lit, silica should be	
		less than 0.01 mg/lit	
		Distillate temperature:65 °C, Quartz heater capacity should be 3.5	
		KW	
		Capillary flow (Air/Liquid) with flow meter, 50 ml wetting liquid	
		It should measure pore size range from 50 to 1900 kDA and capable	
		for measurement of flat sheet membrane	
		The maximum pressure to 500 psi with pressure sensor and regulator	
		SS 316 should be material of construction of outside body	
		Flow sensor and measuring system	
		Provision of sufficient solenoid valve for shut and release with	
		dampener	
		pressure gage for feed and pore pressure	
		Manual and digital pressure controlling arrangement	
		Human Machine interface for porometer control	
		porosity measuring software assistance and capable for producing	
		live wet and dry curves data along with PSD and half dry curves	
		data/graphs Export to MS Excel	
6	Capillary Micron	At least three Sample size of test cell	01
U	Analyzer	Hollow fiber: between 1 to 2 mm diameter	01
		Flat sheet: 20 to 30 mm and 40 to 50 mm diameter	
		Three Perforated screen sheet for sample support	
		sample size standard 6 mm on 25 mm diameter	
		Manual and Automatic (hydro pnoumatic) clamping arrangement for	
		sampla holder	
		Sample noticel	
		SS Tube line	
		Gas cylinder with regulator followed by motorized value	
		Emergency push button	
		220 V 50 UZ	
		$230 \vee 30 \Pi Z$	
		Manual and Brochurg	
		Manual and Diochure	
		Caracity 200 Tarres (2000 KN) Electrically Cum Manuelly	
		Capacity 200 Tonnes (2000 KN) Electrically Cull Manually	
		Suitable to test concrete subset of 15 V 16 v 15 cm	
		Suitable to test concrete cubes of 15 A 10 X 15 cm.	
		4 miller type load from	
	Digital	Specimens duly herdened and surface ground for excellent smooth	
7	Compression	finish	01
'	Tosting Machina	Suitable to operate on 440 volts, three phase	01
	I esting Machine	Having adjustable rate of Loading and auto cut-off mechanism which	
		will stop the machine a little before reaching its maximum load all	
		the electrical fittings including motor used will be of standard mak	
		Fitted with digital load indicator of capacity 2000 KN with least	
		count 1.5 KN	
		Dwell Time: 1-60s Adjustable	
	Digital Rockwell	Max Height Specimen: 230mm	
8	Hardness Testing	Power Supply: AC220V/50Hz	01
0	Machine	Total Force: 147 1n (15 kof) 294 2n (30 kof) 441 3n (45 kof)	01
	Machine	Throat: 133mm	
		Furnace temperature: 0 Degree C~200 Degree C (Low temperature	
		furnace) Ω Deg C ~ 1000 Deg C (high temperature furnace). Power	
	Automatic	Greater Than Equal to 2 KW Dimension: 400mm y 510mm y 640	
9	Proximate	mm Weight: 65Kg Temperature controlling presision: 1.5 Dec C	01
	Analyzer	Weight of sample: $0.5\pi \approx 0.7\pi$ Sample number: 11 samples per time	
		Testing Time: 20 minutes per sample. Airflow Dete: 600m1/min	
1		1 I Sung 1 me. 20 minutes per sample, Annow Kate. 000mi/min	

		(nitrogen), 400ml/min (oxygen), Sample weight: 45mg~100mg,	
		Power Supply:100 ~260V, Frequency: 50/60HZ	
		Inside Chamber Size 6" x 6" x 6", 3.6L approx with swing aside door	
		at the front	
		Furnace construction:	
		(i) Double shell steel case with cooling fan to keep	
		outside case cool	
		(ii) High purity alumina fiber insulation for max.	
		energy saving	
		Heating element: The chamber section should be heated by six to	
		eight Super Kanthal Molybdenum disilicide heating elements (Super	
		1800 grade MoSi2) suspended in a chamber made of high	
		temperature refractory fiber lined with a combination of ceramic	
		fibre blankets.	
	Muffle Furnace	Standard Working: Temperature : 1600° C (continuous)	
10	(with PID	Maximum Working Temperature: 1700° C (< 3 hours)	01
	controller)	Temperature Control: The temperature controller should be a PID	
		automatic control power control and programmable with necessary	
		safety features.	
		Heating Rate: The furnace should be of fast heating type with the	
		maximum attainable temperature should reach as a ramp function in	
		less than one hour.	
		Temperature Accuracy : $+/-1.0$ °C	
		I nermocouple Pt. Pt. Rn. I nyristor controller should be provided	
		along with the furnace to measure the temperature with Re	
		Cooling Ean/ Air Circulation: Attached with European Provided	
		inside the control unit to protect Costly component Max. Power Un	
		to 8 KW Certificate CF certified	
		Max Temp: 1150°C	
		Max. Working Temp: $500^{\circ}\text{C} - 1000^{\circ}\text{C}$	
		Temp. Accuracy: ±10C	
		Heating Elements: Kanthal –A1 wire, Coil type with end connection,	
		easily replaceable.	
		Inner Chamber: Ceramic Refractory with heating elements placed on	
		the sides.	
		Insulation: Ceramic Fibre	
		Construction: Tripple walled with air insulation on the outer side For	
		Minimal Skin Temp.	
		Body: Made of mild steel duly Powder Coated	
		Tube Material: Aluminaor Quartz	
		Tube Size: Inner Dia. = 65mm / Hot Zone Length=225mm / Overall	
11	Tubular Furnace	Cas Durainer Ends of the type have Aluminium couplers with	01
		Cooling attachment for purging of gases	
		Power Control: SSR Unit	
		Temp Control: Microprocessor based Programmable (1prog x 16	
		segments) Temp. Controller, with ramp and soak segments Dual	
		display of Set & Actual Temp, with soft touch keys, With	
		Thermocouple break protections & Cold junction compensation. CE	
		mark to Meet EMC regulations.	
		Sensor: Cr /Al	
		Safety: Over current and Short Circuit Protection.	
		Thermocouple break alarm. High Temp. alarm.	
		Power Supply: 220 volts, single phase AC supply.	
		Exhaust gases cooling tower	
		Rotameter with needle valve Flow rate up to 500 SCCM	

		GAS= Nitrogen			
		GAS= Carbon Dioxide			
		Power Supply: 220 V			
		GCV Range: Up to 10,000 Kcal			
		Microprocessor Based	、 、		
		Beckmann Thermometer (High Precision)			
		Automatic Measurement & Calculati	on of Calorific value/Water		
		Least count 0.0010C			
		Least count 0.0010C	10,100		
		In huilt Thormal Drintor	blour)		
	Romh	PC Software for Data Record			
	Calorimeter	16 soft touch keypad			
12	((Digital) Type-	Weight of mass feed able		01	
12	Automatic	Water Equivalent value feed able		01	
	Microprocessor	Final Test report printout with Date & 7	Гime		
	.	Alarm on Firing & Final reading			
		Fuse wire Open detection & LED indic	ation		
		"No Paper" or "Printer's Door Open" I	Detection		
		Type of Test Select able			
		Real Time Clock			
		Computer Interface			
		Push-n-Fit type Gas filling System for	User		
		Madia to be appled in water Dalta	T (output tomporature input		
		$t_{\text{emperature}} = 30 {}^{0}\text{C}$ Target temperature	re should be less or equal to 5		
		temperature) = 50°C, Target temperature should be less of equal to 5 ^{0}C A mbient Temperature Range is ± 25 °C $\approx \pm 45$ °C			
		C, Allibert Temperature Range is ± 25 C $\sim \pm 45$ C Refrigeration load should not be less than 3 Tonnage capacity with			
		compressor of reciprocating type of 415 V. 3 Phase, 50 Hz			
		Cooling Output rate is 9000 Kcal / hr @ T ambient =+ 45° C.			
		Condenser should be air Cooled Copper Tube and Aluminium fins			
		type, Condenser fan motor should be external Rotor Type -415 V, 3			
		Phase 50 Hz, 600 mm Sweep			
13	Chiller	Rated Voltage-415V, 3 ~/ PE, Mains Frequency- 50 Hz, Rated		01	
15	Chinei	Current-12 Amps – Max per phase, Connected Load-10 kW, Primary		01	
		Voltage- 415V, 3 ~/PE, Control Vo	oltage-230V, 1 ~/PE, Power		
		Supply Voltage- 415V/3PH/50Hz, Con	trol supply- 230 V/1ph		
		Cooling pump flow rate should be 2 t	o 10 lpm, Insulated reservoir		
		tank should be 100 litres, Internal circulation pump should be deliver			
		27 to 50 LPM @ 2 to 2.5 bar pressure	Chilled Water Failure trip		
		Compressor over load trip Anti-free	ering Protection with safety		
		locks Noise Level should be less the	an 80db at 1.5 m distance		
		Expansion device should be Thermosta	tic Expansion Valve		
		Diameter of holding	12" inch		
		Baffles	4-6		
		Atomized spray gun	1		
		Motor	5-10 Hp		
		RPM of holding tank	20-90		
		Diameter of holding	12 inch		
14	Pan Coater	Automatic pneumatic controller		01	
		Variable Angle of Holding Tank	20-80 ⁰		
		Hot air blower			
		Electric Heater	1.2 Kw	-	

15	DO Meter	Dissolved Oxygen RangeDissolved Oxygen ResolutionDissolved Oxygen AccuracyDissolved Oxygen CalibrationDissolved Oxygen Temperature CompensationSalinity CompensationDO ProbeConnectivity GLPAutoend BOD/OUR/SOURDisplayPower Supply EnvironmentDimensionsWeight Other Information	0.00 to 90.00 ppm (mg/L);0.0 to 600.0 % saturation0.01 ppm (mg/L); 0.1%saturation $\pm 1.5\%$ of reading ± 1 digitautomatic using single ortwo-point calibration; usercalibration single point0.0 to 50.0 °C; 32.0 to 122.0°F; 237.1 to 323.1 K0.0 to 70.0 % / 0.0 to 45.0g/L / 0.0 to 42.0 psuPolarographic DO Probewith built-in temperaturesensor (included)Opto-isolated USBLast calibration data,calibration infoDO onlyYes (Inside/Outside limits)color graphic LCD with on-screen help, graphing, andcustom color configuration12 VDC adapter (included)0 to 50°C (32 to 122°F; 273to 323 K), RH max 95%non-condensing160 x 231 x 94 mm (6.3 x9.1 x 3.7 ")1.2 Kg (2.6 lbsDO probe, electrode holder,electrolyte solution (30mL), DO membrane caps(2), 12 VDC adapter,instrument qualitycertificate and instructionmanual	01
		pH Range pH Resolution pH Accuracy pH Calibration	0 0.1 pH / 0.01 pH / 0.001 pH ±0.1 pH / ±0.01 pH / ±0.002 pH ± 1LSD Up to five-point calibration, eight standard buffers available (pH 1.68, 3.00	
			4.01, 6.86, 7.01,9.18, 10.01, 12.45), and five custom	

			buffers	
		pH Temperature Compensation	automatic or manual from -	
			20.0 to 120.0 °C	
		mV Range	±2000.0 mV	
		mV Resolution	0.1 mV	
		mV Accuracy	$\pm 0.2 \text{ mV} \pm 1 \text{LSD}$	
		mV Relative Offset	±2000.0 mV	
		ISE Range	e.g. 10-7 to 10M/ 0.005 to	
			105 ppm/5.10-7 to 5.107	
			conc	
		ISE Resolution	1 conc. / 0.1 conc. / 0.01	
			conc. / 0.001 conc	
		ISE Accuracy	$\pm 0.5\%$ (monovalent ions):	
		5	$\pm 1\%$ (divalent ions)	
		ISE Calibration	Up to five-point calibration.	
			seven fixed standard	
			solutions available for each	
			measurement unit, and five	
			custom solutions	
		EC Range	0.000 to 9.999 µS/cm, 10.00	
		e	to 99.99 µS/cm, 100.0 to	
			999.9 µS/cm, 1.000 to 9.999	
			mS/cm, 10.00 to 99.99	
			mS/cm, 100.0 to 1000.0	
			mS/cm actual EC*	
		EC Resolution	0.001 μS/cm, 0.01 μS/cm,	
			0.1 μS/cm, 1 μS/cm, 0.001	
			mS/cm, 0.01 mS/cm, 0.1	
			mS/cm	
		EC Accuracy	$\pm 1\%$ of reading (± 0.01	
			μS/cm)	
		EC Calibration	automatic standard	
			recognition (0.000 µS/cm,	
			84.00 μS/cm, 1.413 mS/cm,	
			5.000 mS/cm, 12.88 mS/cm,	
			80.00 mS/cm, 111.8	
			mS/cm) or user standard;	
			single point or multi-point	
			calibration	
		TDS Range	0.000 to 9.999 ppm, 10.00	
16	pH-EC-TDS-ISE		to 99.99 ppm, 100.0 to	
	meter with		999.9 ppm, 1.000 to 9.999	01
	electrodes for PH		ppt, 10.00 to 99.99 ppt,	
	and EC-TDS		100.0 to 400.0 ppt actual	
			TDS* (with 1.00 factor)	
		TDS Resolution	0.001 ppm, 0.01 ppm, 0.1	
			ppm, 1 ppm, 0.001 ppt, 0.01	
			ppt, 0.1 ppt	
		IDS Accuracy	$\pm 1\%$ of reading (± 0.01	
		EC/TDS Terror Commence the	ppm)	
		EC/1DS remperature Compensation	Disabled / Linear / Non	
		Tomparatura Correction Coofficient	111111111111111111111111111111111111	
		Pafaranaa Tamparatura	5.0 °C to 20.0 °C	
		Cell Constant	0.0500 to 200.00	
		Cell Type	1 cells	
		Temperature Range	$-20.0 \text{ to } 120.0 ^{\circ}\text{C} ** \cdot 10 \text{ to }$	
		remperature Kange	-20.010120.000, -4.010	

			248.0 °F**; 253.15 to	
			393.15 K**	
		Temperature Resolution	0.1 °C, 0.1 °F, 0.1 K	
		Temperature Accuracy	±0.2 °C; ±0.4 °F; ±0.2 K	
			(without probe)	
		Input Channels	2 (pH/mV/ISE;	
			Conductivity/Resistivity/TD	
			S/ Salinity)	
		pH Electrode	glass body pH electrode	
			with BNC connector and 1	
			m(3.3') cable (included)	
		EC/TDS Probe	four-ring EC/TDS probe	
			with and $1 \text{ m} (3.3')$ cable	
			(included)	
		Temperature Probe	stainless steel temperature	
			probe with $1 \text{ m}(3.3')$ cable	
			(included)	
		Display	Color Graphic LCD 240 x	
			320 pixels, 8 keys	
			capacitive touch keyboard	
		Power Supply	12 VDC adapter (included)	
		Environment	0 to 50°C (32 to 122°F; 273	
			to 323 K), RH max 95%	
			non-condensing	
		Dimensions	160 x 231 x 94 mm (6.3 x	
			9.1 x 3.7")	
		Weight	1.2 Kg (2.6 lbs)	
		Other Information	pH electrode, temperature	
			probe, conductivity probe,	
			electrode holder, pH 4.01	
			buffer solution sachet, pH	
			7.01 buffer solution sachet,	
			electrode cleaning solution	
			sachet (2), 3.5M KCl	
			electrolyte solution (30	
			mL), 12 VDC power	
			adapter and instructions.	
			Distance (542.0.5 m)	
		pH Range	Photometer: 6.5 to 8.5 pH	
			pH electrode: -2.00 to 16.00	
			pH Dhatamatam 0.1 all	
		pH Resolution	Photometer: 0.1 pH	
			pH electrode: 0.01 pH	
		pH Accuracy	Photometer: ±0.1 pH	
			pH electrode: ±0.01 pH	
	COD meter cum	pH Calibration	Automatic one or two point	
17	multi parameter		calibration with one set of	01
	with a provision		standard bullers available	01
	for pH		(4.01, 0.80, 7.01, 9.18, 10.01)	
	measurement	nH Temperature Compensation	10.01	
		pri remperature Compensation	Automatic (-5.0 to 100.0 C; 23.0 to 212.0 $^{\circ}$ E). limits	
			23.0 to 212.0 T, illing	
			electrode used	
		pHCAL Check (electrode	clean electrode and check	
		diagnostics)	huffer/check probe	
	1	anghouros)	Carren encor proot	

	displayed during calibration
pH Method	Photometer: phenol red
pH-mV Range	±1000 mV
pH-mV Resolution	0.1 mV
pH-mV Accuracy	±0.2 mV
Dissolved Oxygen Range	0.0 to 10.0 mg/L (as O ₂)
Dissolved Oxygen Accuracy	$\pm 0.4 \text{ mg/L} \pm 3\%$ of reading
Chemical Oxygen Demand Range	Low Range: 0 to 150 mg/L Medium Range: 0 to 1500 mg/L High Range:0 to 15000
	mg/L
Chemical Oxygen Demand Resolution	1 mg/L
Chemical Oxygen Demand Accuracy	Low Range: ±5 mg/L ±4% of reading Medium Range: ±15 mg/L ±4% of reading High Range: ±150 mg/L ±2% of reading
Input Channels	1 pH electrode input and 5 photometer wavelengths
pH Electrode	digital pH electrode (not included)
Photometer/Colorimeter Light Source	5 LEDs with 420 nm, 466 nm, 525 nm, 575 nm, and 610 nm narrow band interference filters
Photometer/Colorimeter Light Detector	silicon photodetector
Cuvette Type	round, 24.6 mm
Number of Methods	128 max.
GLP	calibration data for connected pH electrode
Display	128 x 64 pixel LCD with backlight
Connectivity	USB-A host for flash drive; micro-USB-B for power and computer connectivity
Power Supply	5 VDC USB 2.0 power adapter with USB-A to micro-USB-B cable (included)
Battery Type/Life	3.7 VDC Li-polymer rechargeable battery / >500 photometric measurements or 50 hours of continuous pH measurement
Environment	0 to 50.0 °C (32 to 122.0 °F); 0 to 95% RH, non-condensing
Other Information	sample cuvettes and caps (4 ea.), cloth for wiping cuvettes, USB to micro USB cable connector, power adapter and instruction manual.

		Power Supply	115 Vac; 60 Hz; 250 W	
		Environment	5 to 50°C (41 to 122°F)	
			190 x 300 x 95 mm (7.5 x	
		Dimensions	11.8 x 3.7")	
		XX7 1 1	approximately 4.8 kg (10.6	
		Weight	lb)	
			power cable and instruction	
		Other Information	manual.	
			105°C or 150°C (221°F or	
		Reaction Temperature	302°F)	
		Temperature Stability	±0.5°C	
		Temperature Range	-10°C to 160°C	
10		Temperature Accuracy	±2°C (@ 25°C)	
18	COD Digester	v	25 vials (dia 16 x 100 mm),	
		Capacity	1 receptacle for a stainless	01
		1 5	steel reference thermometer	01
			10 to 15 minutes, depending	
		Warm up time	on selected temperature	
			timed (0 to 180 minutes) or	
		Operating Mode	infinity mode	
		Heater Block Material	Aluminum	
		Package	vials	
		Quantity	25 each	
			dichromate EPA	
		Method		
		No. of Channels	One	
		Flow Rate	0.1 to 1499.9 ml/min	
		Set Volume	0 to 999.9 ml	
		Interval Time	0 to 99.9 sec.	
			3 to 10 mm ID, 1.5 to 2 mm	
		Tubing	Wall thickness	
		No. of Rollers	2	
		Pressure	UP to 2 Bar	
		Accuracy	±1%	
		La need Coop a log	230V +/- 10%, 50Hz,	
		input Supply	Single phase AC, 60 Watt	
10	Paristaltic Pump	Diamlary	Single line 8 Character	01
17	i cristatuc i ump	Display	Liquid crystal Display	01
		Motor	DC Stepper Motor (Cont.	
		WOOD	Duty)	
			Microcontroller Based	
		Drive	control Circuit and PWM	
		DIIVe	Based DC Stepper Motor	
			Drive	
		Remote ON	Potential free Digital Input	
		Photometric Accuracy Instrument	1A: ±0.006A	
			2A: ±0.010A	
			Measured at 440 nm using	
			calibrated neutra	
	UV- Vis	Connections	USB or RS-232	
20	Spectrophotomet	Wavelength Range	190 to 1100nm	01
	er	Detector Type	Dual Silicon Photodiodes	
		Display	None	
		Baseline Flatness	±0.0010A, 200-800nm,	
			1.0nm SBW, smoothing	
1		Data Interval	10, 5, 2, 1.0, 0.5, 0.2, 0.1nm	

Dimensions (L x W x H)	62.2 x 48.6 x 27.9 cm (24 x	
	19 x 11 in)	
Electrical Requirements	100-240V 50-60Hz,	
	selected automatically,	
	150W maximum	
Lamp	Xenon Flash Lamp, 3 year	
	warranty (7 years typical	
	lifetime)	
Pharmacopoeia Compliance Testing	Photometric Accuracy	
	(60mg/L K2Cr2O7):	
	±0.010A	
	Stray Light: ≤1%T at 198	
	nm: KCI; ≤0.05%AT at 220	
	nm: Nal, Kl	
	Wavelength Accuracy: ±.5	
	nm 541.9, 546.1nm Hg	
	emission lines, ±0.8 nm full	
	range	
	Wavelength Repeatability:	
	≤0.05 nm, repetitive	
	scanning of 546.1 nm Hg	
	emission line	
Photometric Range	>3.5A	
Scan Ordinate Modes	Absorbance. %	
	Transmittance %	
	Reflectance Kubelka-	
	Munk $\log (1/R) \log (\Delta be)$	
	Ahs* Intensity	
Spectral Bandwidth	1 0 nm	
Wayalangth Panastshility	<0.05 nm(546.1 nm)	
wavelength Repeatability	$\geq 0.05 \text{ IIII} (540.1 \text{ IIIII})$	
	mercury mile, SD 01 10 measurements)	
Weight (English)	22 lb	
Weight (English)	J2 IU Microsoft Windows 7	
Operating System	Windows ?	
There a	Windows 8	
Type	Evolution 201 UV-Vis	
	Spectrophotometer,	
	Computer Control, includes	
	Euro/US/UK power cords	
Wavelength Accuracy	±0.5 nm (541.9, 546.1 nm	
	mercury lines);	
	± 0.8 nm (full range 190 to	
	1100 n	
Accuracy (Photometric)	0.5: ±0.004; 1: ±0.006; 2:	
	± 0.010 ; Measured at 440nm	
	using neutral density filters	
	traceable to NIST	
Certifications/Compliance	ISO 9001:2008	
Beam Geometry	Double-beam	
Description	Cutting-edge	
	instrumentation. intuitive	
	and powerful software and	
	a wide range of accessories	
	consistently deliver high	
	quality results and improved	
	productivity	
Drift	$\sim 0.0005 \text{A/br}$	
	<0.0003A/III, 500 nm 1.0 nm SDW 1.hr	
	JOU IIII, I.U IIII SBW, I Nr	

			warm-up	
		Item Description	Evolution 201 UV-Vis	
			Spectrophotometer.	
			Computer Control, includes	
			Euro/US/UK power cords	
		Noise	0A: <0.00015A:	
			1A:<0.00025A:	
			2A: <0.00080A	
			260 nm 1.0 nm SBW RMS	
		Pathlength (Metric)	Up to 100 mm cuvettes	
		Photometric Display	-0.3 to 4.0 A	
		Photometric Repeatability	+0.00024	
		Scan Speed	<1-6000 nm/min variable	
		Wattaga		
		Wattage Wayalangth Scan Speed	<1 to 6000: variable	
		Description	Cutting edge	
		Description	instrumentation intuitive	
			and nowarful software and	
			and powerful software, and	
			a while range of accessories	
			quality results and improved	
			productivity	
		Drift	< 0.0005 A/br	
		Dint	< 0.0003 A/III, 500 nm 1 0 nm SBW 1 hr	
			yerm up	
		Itom Description	Evolution 201 UV Vis	
		Item Description	Spectrophotometer	
			Computer Control includes	
			Euro/US/UK power cords	
		Noise	$CA_{\pm} < 0.00015 A_{\pm}$	
		Noise	$1 \land < 0.00013 \land$	
			1A.<0.00023A,	
			2A. < 0.00000A, 260 nm 1.0 nm SBW PMS	
		Pathlangth (Matric)	Lip to 100 mm cuvottos	
		Photometric Display	0.3 to 4.0 A	
		Two axes movement provision for adju	-0.5 to 4.0A	
		Droplet to grip droplet	sting locus	
		LED Lamp to irradiate sample droplet		
		camera and digital Graphic sensor with provision of cable for USB		
		Vertical plane movement to 300 mm with movement in order to		
		position for proper concentration on sample droplet		
		Placing of sample liquid droplet on Table (XY) using syringe		
21	Drop Shape	Placing of sample inquid droplet on Table $(X T)$ using symple		01
41	Analyzer	Dosing system resolution 0.1 µL		01
		Bange: 0 to 180°		
		(b)Accuracy: 1°		
		(c) Resolution: 0.05°		
		Operating Temperature 10 to 40° C		
		Software for Image capturing		
		Installation and Training		
	I	mountation and Training		

Deputy Registrar (Store & Purchase)