



**Department of Physics, University of Mumbai
Tilak Bhavan, Vidyanagari, (Santacruz EAST), Mumbai 400098**

E-Tenders Notice REF. NO. UDPMU/222/ 2021

Date: 26/07/2021

Department of Physics, University of Mumbai invites Online E-Tenders for purchase of following item

E-TENDER NOTICE

For

Name of Work: “Supply of MULTICHANNEL ELECTROCHEMICAL WORKSTATION

e-Tendering Portal: <https://mahatenders.gov.in>

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E-Tender Notice No.: UDP/222/2021 Date: 26/07/2021

University of Mumbai invited Online Tender for Supply of “MULTICHANNEL ELECTROCHEMICAL WORKSTATION”

Sr. No.	Tender Form Fees in Rs.	EMD in Rs.	Validity of e-Tender	Pre-Bid Meeting
1	Rs. 1000/- (Rupees One thousand only)	Rs. 15,000/- (Rupees Fifteenth thousand only)	120 days	<p align="center">Date and Time: 02/08/2021 at 11.00 hrs</p> <p align="center">Venue: Department of Physics, University of Mumbai, Vidyanagari, Santacruz (E), Mumbai 400 098, India. Tel: 8779684723</p>

Schedule of Tender

Tender Publish:	26/07/2021
Pre-Bid meeting:	02/08/2021 at 11:00 hrs
Last date of Bid Submission	11/08/2021 up to 14:00 hrs
Technical Bid Opening	09/07/2021 at 14:00 hrs
Financial Bid Opening	will be announced after technical evaluation

Note:

1. All the Eligible Tenderers needs to be registered on <https://mahatenders.gov.in>
2. For any technical related queries please call at 24X7 Help Desk nos. as follows:
0120-4001002, 0120-4001005, 0120-6277787 or E-mail: support-eproc(at)nic(dot)in
3. Mumbai University reserves every rights to cancel the Tender in whole or in part at any time.

Sd/-
Registrar
University of Mumbai,
Fort, Mumbai-400032.



INVITATION OF TENDERS

1. Mumbai University, Invites online e-tenders for of supply of **MULTICHANNEL ELECTROCHEMICAL WORKSTATION**, detailed terms and conditions and schedule of the goods/materials are provided in the tender documents.
2. Interested Tenderers may download information and inspect Tender document from portal <https://mahatenders.gov.in>
3. A complete set of Tender Documents may be purchased @ cost of Rs.1000/-which is not refundable by the authorized representative online on <https://mahatenders.gov.in> by using online payment gateway within portal by Net Banking during online bid submission process. The tender document will be available from date 26-07-2021 09:00Hrs. to 11-08-2021 up to 14:00 Hrs. at the above address.
4. All Tenders must be accompanied by an Earnest Money Deposit (EMD) for an amount of Rs.75,000/- should be paid online on <https://mahatenders.gov.in> by using online payment gateway within portal by Net Banking during online bid submission process. . In case of any exemption, Exemption Certificate should be uploaded online.
5. Mumbai University will not be responsible for any costs or expenses incurred by Tenderers in connection with the preparation for delivery of Tenders, including costs and expenses related to visits to the site of Mumbai University.
6. The tender will be in two Envelopes, Envelope-I will contain Technical bid, Envelope-II will contain Price bid.
7. Last date for submission is 11/08/2021 up to 14.00 hrs.
8. Bid of Technical Envelope-I will open on 07-08-2021 at 11.00 hrs
9. Pre-bid meeting open to all prospective tenderers will be held at Office of the Mumbai University Physics, Tilak Bhavan, Vidyanageri, Santacruz (East), Mumbai 400 098. As per NIT. As per online Tender Schedule published on e-tendering portal of Government of Maharashtra wherein prospective Tenders will have an opportunity to opine clarifications regarding the work and the Tender Conditions.
10. For any technical related queries for online bid submission, please call at 24X7 Help Desk as follows:
0120-4001002, 0120-4001005, 0120-6277787 E-mail: support-eproc(at)nic(dot)in
11. For Online Payment related issues, kindly send email with Bank Reference Number to this
E-mail id: merchant@sbi.co.in You may also contact 022-27560149 for clarifications.

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The scheduled Tender activities are as follows:

Sr. No.	Description of scheduled Tender activities	Scheduled on - Date and Time
1	Tender Publish	26/07/2021
2	Pre-Bid Meeting	02/08/2021 at 11am
	Pre-Bid Meeting Address	Department of Physics, University of Mumbai, Vidyanagari, Santacruz (E), Mumbai 400 098. Tel: 8779684723
3	Last Date of Bid Submission	11/08/2021 up to 2pm
4	Technical Bid Opening	09/08/2021 at 2pm
5	Financial Bid Opening	will be announced after the technical bid evaluation.

For any technical related queries please call at 24X7 Help Desk as follows:

0120-4001002, 0120-4001005, 0120-6277787 E-mail: support-eproc(at)nic(dot)in

For Online Payment related issues, kindly send email with Bank Reference Number to this
E-mail id: merchant@sbi.co.in You may also contact 022-27560149 for clarifications.



E-Tender Notice No. UDP/ 222/2021 dated 26/07/2021

Part A-Terms and Conditions

Envelope No.1
(Technical Bid)

Terms and Conditions of the Tender for the supply of MULTICHANNEL ELECTROCHEMICAL WORKSTATION

The tender document along with terms & conditions are available for sale on <https://mahatenders.gov.in>

1. Tenderer /Bidders shall submit the following documents along with their tender and **be placed in the Technical Bid Envelope i.e . Envelope No. 1).**
 - (a) Income-Tax clear certificate from the Income-Tax Officer concerned, certifying that the tenderer has cleared all the Income –Tax dues.
 - (b) Tenderers should be either manufacturer or authorized dealer of the said material/Accessories and should submit the proof for the same. Also, the Tenderers should state whether they are a Proprietary Firm, Partnership Firm or a Private/ Public Limited Company and furnish the proof of the same. If the tenderer is a partnership firm, the necessary partnership deed, disclosing the names of all partners and their interest in the firm shall be enclosed.
 - (c) Tenderer should enclose the list of names of the organizations and laboratories to which similar equipment / accessories have supplied and a certificate to the effect that the performance of the supplied equipment was satisfactory.
 - (d) Sales Tax Registration No. / VAT Reg. No.
 - (e) Technical specifications offered by the Supplier.
 - (f) Technical compliance table
 - (g) Proprietary certificate
 - (h) The authority to sign to tender document shall be submitted invariably by the tenderer.
 - (i) Affidavit on Rs. 100 Stamp Paper
 - (j) Declaration on Stamp Paper as per format given in the tender document.
 - (k) The names of the organizations and the offices to which similar supplies have been made.
 - (l) Technical specifications offered by the Supplier, Proprietary Certificate (if any).
 - (m) Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document part B.



2. The Earnest Money Deposit paid by the supplier shall be forfeited, if the supplier fails to pay the necessary Security deposit in the event of his tender being accepted.
3. Bidder should read carefully all the instructions and terms and conditions, etc before registering the prescribed schedule of the tender. Price registering in the schedule of price to tender should be inclusive of all taxes and duties. Rate should be quoted online only.
4. The offers made by the Tenderers shall be valid for 120 days after the last date of submission of tender.
5. **The Technical Documents shall be opened** on a schedule and venue to be arranged later, for those bids for which minimum three Bidders have participated. The tenderers or their authorized representatives shall be allowed to be present at the time of opening of the tenders. Financial bids of only qualified tenderers shall be opened. The date and time of opening the financial bids shall be announced after opening and evaluating all the Technical bids.
6. In case of imported items/Accessories, the rates should be quoted in the light of exemptions enjoyed by educational institutions. Universities exempted from the payment of Octroi and the necessary certificate/form can be issued by the University.
7. Technical specifications of the Material/Accessories are given in **Annexure** to the see papers i.e. Part B.
9. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers
10. The goods, accessories, materials equipment supplied by the supplier shall be accepted after in section by an officer authorized by the competent authority. No accessories/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit accepted.
11. The bills of the suppliers shall be paid by the University after all the equipments/Accessories have been received inspected and found in good condition as mentioned above.
12. Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document part-B.
13. As the suppliers shall be responsible for the supply and installation (wherever necessary) of equipment at Mumbai, the cost towards insurance until destination in the University, shall be borne by suppliers.
14. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier, forfeit the security deposit of the supplier and make alternative arrangements for procurement of supplies at the risk and cost of supplier.
15. Proprietary certificate, if any, should be included in the Technical bid.
16. The Conditional offers are liable to be summarily rejected.

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17. Right to reject any or all Tenderers without assigning any reason are reserved with University of Mumbai.
18. The payment shall be made after successful installation within a reasonable period as per the University of Mumbai rules and procedures.
19. In case of successful tenderers the amount of Earnest Money Deposit shall be converted into Security Deposit / Performance Guarantee and shall be refunded after the warranty period is over.
20. Supplier should read carefully all the instructions and terms and conditions, etc., before registering rates in prescribed schedule of the tender. Taxes and duties etc. should be shown separately
21. The offers made by the suppliers shall be open for acceptance for 120 days after the last date of submission of tender.
22. The quotation shall be opened by the Head, Department of Physics in his office. The tenderers or their authorized representatives shall be allowed to be present at the time of opening of the tenders.
23. In case of imported items / Accessories the rates should be quoted in the light of exemptions enjoyed by educational institutions. The University is exempted from payment of Customs/Excise duty, Octroi; and the necessary certificates / forms can be issued by the University.
24. Technical specifications of the items / Accessories are given in the Annexure of these papers (Part B).
25. The delivery time of items / Accessories should be clearly mentioned in the tender. No extension shall be granted to the contractors / suppliers for the period of delivery mentioned in the tender, under any circumstances.
26. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance / undelivered supply, at the risk and cost of such supplier.
27. The goods, article, material supplied by the contractor shall be accepted after inspection by an officer authorized by the competent authority. No items / Accessories which do not conform to the specifications laid down in the terms and conditions or damaged in transit or otherwise, shall be accepted.
28. The bills of the suppliers shall be paid by the University after all the items/Accessories equipment have been received, inspected as above.
30. A list of spares/consumables required for hassle free functioning of the instrument for at least two years should be quoted additionally.
31. Undertaking from the manufacturer that parts will be made available at least for next ten years even after discontinuation of the supplied model is necessary.



32. i) Vendor/Bidder should have an experience in supply of **“MULTICHANNEL ELECTROCHEMICAL WORKSTATION”**
- ii) Vendor/Bidder should have support personnel available in Mumbai for adequate service & support.
 - iii) Vendor should have a prior experience of installing scientific Applications in the system supplied & implemented at user's site. A certificate has to be submitted in this regard.
 - iv) Bidder must submit an Authorization certificate from OEM for service & support specific to this tender.
 - v) Bidder should be an ISO 9001:2008 certified Company.
33. As the supplier shall be responsible for the supply of the equipments for Department of Physics, University of Mumbai; the cost towards loading/unloading, insurance, etc. shall be borne by the suppliers.
34. Without any purchase commitment, inspection/demonstration should be arranged at the cost of the supplier for the quoted material at two places in Mumbai.
35. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier and forfeit the EMD/Security Deposit of the supplier.



Part B – Specifications

Refer enclosed BOQ in Excel file format for Price bid. Download the BOQ. Fill in your firm name and offer rate. Save and upload the same in Financial Cover of Tender

Envelope No.2 (Financial/Price Bid)

Item no	Features	Description of item/ Specifications	Price/ Rate per Unit in Rs	Total In Rs.
1	Number of Channels	<ul style="list-style-type: none"> 2 (Minimum expandability is required up to 5 more channels) 		
2	Compliance voltage	<ul style="list-style-type: none"> Standard ± 18 V or better at ± 350 mA current 		
3	Maximum Output Current	± 400 mA or better at ± 20 V.		
4	Current boosting option	Expandable anytime in future to ± 10 A measured current or better with Current Booster at unchanging compliance voltage of ± 18 V and 0.0003% measured current resolution. Each channel should have booster connection facility.		
5	Output Voltage Range	± 10 V or better. Can be increased to ± 20 V anytime in future with suitable accessory.		
6	Maximum scan rate	1000V/s with 15 mV steps – Required for fast kinetics and PEC based electro-catalysis		
7	Current Ranges	± 10 nA to current range ± 100 mA in eight or more ranges		
8	Measured current accuracy	0.0003% of current range (30 fA at 10 nA range); Must be a default hardware configuration without any additional external accessories or current boosters – Required		
9	Built-in Current Integrator:	<p>We require to separate faradaic current from capacitive current and also directly measure integrated charge in real-time rather than current</p> <ul style="list-style-type: none"> 0.0005 m²/g and above (Kr) 		
10	Built-in Electromagnetic Noise filter	The system hardware must have internal third order Sallen-key filters for removing background noise that cannot be removed by simple measures such as faraday cage		
11	Measured Potential Resolution	5 μ V or better		
12	Potentiostat Rise/fall Time:	< 300 ns or lower		
13	Interface:	USB interface for connection with PC.		
14	Input bias current:	< 1 pA		

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15	Bandwidth of electrometer:	> 4 MHz sample.		
16	Input impedance of electrometer	> 100 GOhm // 8 pF		
17	Electrochemical Impedance Spectroscopy	<p>(2 number required now): An official “Accuracy Contour Plot” must be supplied by vendor.</p> <ul style="list-style-type: none"> • Applied Frequency Resolution: 0.003% • At 1 Hz frequency or more, impedance of 0.01 Ω must be determined with 0.3° Phase accuracy & 0.3 % measured impedance accuracy. i.e. – Measured impedance = 0.01 ±0.00003 Ω - Required • Frequency Range with External Waveform generator: 10 μHz to 30 MHz • Frequency Range with PSTAT/GSTAT: 10 μHz to 1 MHz at a maximum current of ±350 mA currents • Required – Real time fit-simulation, live lissajous plots, live 3D plotting. 		
18	Photo Electrochemical H Cell (Required Now)	100ml PEC H Cell is required with Quartz window, Calomel Reference Electrode and Pt wire counter electrode.		
19	Any-time Upgradation of existing system (Future Upgrade):	A high current booster for a full-range ±10A measureable current with ± 18V compliance at a current resolution of 0.0003% or better.		
20	Any-time Upgradation of additional channels (Future Upgrade):	Upto 5 more channels can be added anytime in future with specification of Compliance voltage: Standard ± 18 V or better at ± 350 mA current.		
21		Any-time Upgradation to additional modules like Bipotentiostat, EQCM, Spectro Electrochemistry, SECM, RDE/RRDE.		
22	Software	<p>The system software must have capability for hybrid measurements such as Spectro-electrochemistry, E-SPR, SECM, IMPS-IMVS, EQCM, etc. It should have TTL triggering, ADC, DAC based communication ports. The Software must be able to be downloaded to unlimited computers, free updates & fully windows based. Software should be capable of supporting a wide variety of electrochemical applications as mentioned below:</p> <p>Corrosion, Battery & Supercapacitor Analysis, Solar Cell / Fuel Cell Studies, Electro-catalysis / Electro-deposition, Trace Metal Analysis / Polarography, 3D Based Live Plotting.</p>		

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23	Computer Station:	A suitable branded Computer like Dell or Compaq or equivalent for system control & data acquisition should be offered with the system. It should have following minimum specs: CPU Intel Core i5, RAM 8 GB RAM, HDD 500 GB, GPU DirectX 9.0c compliant display adapter with 1GB RAM, TFT Monitor 21 inch, 101 Keys Keyboard, Optical Mouse, 3 USB Ports.			
24	<u>Warranty:</u>	3 years Manufacturer's Warranty Certificate			
25	BEC 50 ML - Aqueous	<p>BEC 50 ML - Specification maximum electrolyte volume: 50 mL electrode plug diameter: 6 mm Product includes 1 top casing 1 glass chamber 1 plug 1 set of O-rings 2 flangeless nuts for gas inlet/outlet (1/16", 1.6 mm tubing) 2 flangeless ferrules (1/16", 1.6 mm tubing) Part No: Ag/AgCl REFERENCE 70 mm - Qt. 1 Part No: WIRE COUNTER ELECTRODE - Qt. 1</p>			
26		<p>Note: Vendor should be an authorized provider of sophisticated high-precision potentiostat/galvanostat systems for past 15 Years or more with a</p> <ul style="list-style-type: none"> • A proven track record in multiple countries and national institutes • Standard quality certifications such (ISO 9001) • 10+ past installations of similar systems in India in past two years. 			

Note :

1. Rate should be quoted online only
2. The Rates shall be FOR/CIF, at destinations/godowns/places indicated in the supply order
3. Tenderers are advised to read carefully the Terms and Conditions of supply and the Instructions to the Tenderers" before recording the rates in this schedule



Specifications

Supply of MULTICHANNEL ELECTROCHEMICAL WORKSTATION

Technical Specification for “MULTICHANNEL ELECTROCHEMICAL WORKSTATION”

Item no	Features	Description of item/ Specifications
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5	Output Voltage Range	± 10 V or better. Can be increased to ± 20 V anytime in future with suitable accessory.
6	Maximum scan rate	1000V/s with 15 mV steps – Required for fast kinetics and PEC based electro-catalysis
7	Current Ranges	± 10 nA to current range ± 100 mA in eight or more ranges
8	Measured current accuracy	0.0003% of current range (30 fA at 10 nA range): Must be a default hardware configuration without any additional external accessories or current boosters – Required
9	Built-in Current Integrator:	<p>We require to separate faradaic current from capacitive current and also directly measure integrated charge in real-time rather than current</p> <ul style="list-style-type: none"> 0.0005 m²/g and above (Kr)
10	Built-in Electromagnetic Noise filter	The system hardware must have internal third order Sallen-key filters for removing background noise that cannot be removed by simple measures such as faraday cage
11	Measured Potential Resolution	5 μ V or better
12	Potentiostat Rise/fall Time:	< 300 ns or lower
13	Interface:	USB interface for connection with PC.
14	Input bias current:	< 1 pA
15	Bandwidth of electrometer:	> 4 MHz sample.



16	Input impedance of electrometer	> 100 GOhm // 8 pF
17	Electrochemical Impedance Spectroscopy	<p>(2 number required now): An official “Accuracy Contour Plot” must be supplied by vendor.</p> <ul style="list-style-type: none"> • Applied Frequency Resolution: 0.003% • At 1 Hz frequency, impedance of 0.01 Ω must be determined with 0.3° Phase accuracy & 0.3 % measured impedance accuracy. i.e. – Measured impedance = 0.01 \pm0.00003 Ω - Required • Frequency Range with External Waveform generator: 10 μHz to 30 MHz • Frequency Range with PSTAT/GSTAT: 10 μHz to 1 MHz at a maximum current of \pm350 mA currents • Required – Real time fit-simulation, live lissajous plots, live 3D plotting.
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20	Any-time Upgradation of additional channels (Future Upgrade):	Upto 5 more channels can be added anytime in future with specification of Compliance voltage: Standard \pm 18 V or better at \pm 350 mA current.
21		Any-time Upgradation to additional modules like Bipotentiostat, EQCM, Spectro Electrochemistry, SECM, RDE/RRDE.
22	Software	<p>The system software must have capability for hybrid measurements such as Spectro-electrochemistry, E-SPR, SECM, IMPS-IMVS, EQCM, etc. It should have TTL triggering, ADC, DAC based communication ports. The Software must be able to be downloaded to unlimited computers, free updates & fully windows based. Software should be capable of supporting a wide variety of electrochemical applications as mentioned below:</p> <p>Corrosion, Battery & Supercapacitor Analysis, Solar Cell / Fuel Cell Studies, Electro-catalysis / Electro-deposition, Trace Metal Analysis / Polarography, 3D Based Live Plotting.</p>

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23	Computer Station:	A suitable branded Computer like Dell or Compaq or equivalent for system control & data acquisition should be offered with the system. It should have following minimum specs: CPU Intel Core i5, RAM 8 GB RAM, HDD 500 GB, GPU DirectX 9.0c compliant display adapter with 1GB RAM, TFT Monitor 21 inch, 101 Keys Keyboard, Optical Mouse, 3 USB Ports.	
24	<u>Warranty:</u>	3 years Manufacturer's Warranty Certificate	
25	BEC 50 ML - Aqueous	<p>BEC 50 ML - Specification maximum electrolyte volume: 50 mL electrode plug diameter: 6 mm Product includes 1 top casing 1 glass chamber 1 plug 1 set of O-rings 2 flangeless nuts for gas inlet/outlet (1/16", 1.6 mm tubing) 2 flangeless ferrules (1/16", 1.6 mm tubing) Part No: Ag/AgCl REFERENCE 70 mm - Qt. 1 Part No: WIRE COUNTER ELECTRODE - Qt. 1 Part No: GC 2mm Working Electrode -Qt 1</p>	
26		<p>Note: Vendor should be an authorized provider of sophisticated high-precision potentiostat/galvanostat systems for past 15 Years or more with a</p> <ul style="list-style-type: none"> • A proven track record in multiple countries and national institutes • Standard quality certifications such (ISO 9001) • 10+ past installations of similar systems in India in past two years. 	

NOTE:

- 1) All documentation shall be in English language. In addition to the hard copies, soft copies of the manuals shall be submitted vide – CD.
- 2) Data sheets of optics in print
- 3) Calibration Procedure Manual in print and CD
- 4) Complete set of Service Manuals for all OEM products
- 5) Test Reports
- 6) Complete set of tool-kits for maintenance of optics. Give elaborated list of tools with data sheet and description



(Executive Magistrate/Notary Public.)

AFFIDAVIT

I, _____ (Name of Contractor/Authorized person),
Aged about _____ years, residing at _____
_____ (Postal Address) do hereby swear this affidavit that, I am the
Proprietor/Partner of _____ (Name of company/firm) Registered at
_____.

I do hereby swear that, the documents submitted in envelope No. 1 of the tender document for the work of-----
-----are true, correct and complete. I am not blacklisted in any organization. In case the
contents of envelope No.1 and other document pertaining to the tender submitted by me are found to be
incorrect or false, I shall be liable for action under the relevant provision of Indian Penal Code and other
relevant laws.

Signature of Authorized person

Applicant/Contractor

Name _____

Address _____

E-mail _____

Mobile No _____

Place :- _____

Date :- _____



DECLARATION OF THE CONTRACTOR

I/We hereby declare that I/we have made myself / ourselves thoroughly conversant with the local conditions regarding all materials and labour on which I/we have based my/our rates for this tender. The specifications, and lead of materials on this work have been carefully studied and understood by me/us before submitting this tender. I/we undertake to use only the best materials approved by the MUMBAI UNIVERSITY or his duly authorized representative before starting the work and to abide by his decision.

I/We hereby undertake to pay the laborers engaged on the work as per minimum wages Act 1948 applicable to the Zone concerned.

Signature of Contractor



Guidelines to Tenderers for Online Bid Submission:

- 1) For any technical related queries for online bid submission, please call at 24x7 Help Desk nos. 0120-4001002, 0120-4001005, 0120-6277787 E-mail: support-eproc(at)nic(dot)in
- 2) For Online Payment related issues, kindly send email with Bank Reference Number to this E-mail id: merchant@sbi.co.in You may also contact 022-27560149 for clarifications.
- 3) Refer below mentioned documents linked on home page of portal <https://mahatenders.gov.in>
 - . Guidelines for hassle free Bid Submission
 - . Bidder Manual Kit
 - . Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this . eProcurement Portal
 - . Information about DSC
 - . FAQ