

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	24-08-2026 17:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	24-08-2026 17:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Science And Technology
विभाग का नाम/Department Name	Department Of Science And Technology (dst)
संगठन का नाम/Organisation Name	Sree Chitra Tirunal Institute For Medical Sciences And Technology (sctimst)
कार्यालय का नाम/Office Name	Thiruvananthapuram
शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal	HOD Email id :sm.sctimst-ker@gov.in Buyer Email id: teceval56.sctimst.kl@gembuyer.in
कुल मात्रा/Total Quantity	1
वस्तु श्रेणी /Item Category	Power Quality Analyzer (Q3)
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Relaxation for Years Of Experience and Turnover	Yes Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Relaxation for Years Of Experience and Turnover	Yes Complete
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ में है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3

बिड विवरण/Bid Details	
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	5
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	2
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No
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ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	38

(a). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

लाभार्थी /Beneficiary :

The Director
Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST),
Satelmond Palace, Poojappura, Thiruvananthapuram - 695 012, Kerala
(The Director)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई खरीद वरीयता / MII Purchase Preference

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में है / Purchase Preference to MII sellers available upto price within $L1+X\%$	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	Yes, in compliance with the MII ORDER : DPIIT Order(as amended and applicable time to time)

एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं/सेवा प्रदाता को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ / Purchase Preference to MSE OEMs/ Service Provider available upto price within $L1+X\%$	15
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माता/सेवा प्रदाता को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Percentage of Bid quantity/amount for MSE OEMs/ Service Provider Purchase preference	25

1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
3. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
4. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.

5. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017 and its subsequent Orders/Notifications issued by concerned Ministry .Benefits of MSE will be allowed only if seller/service provider is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

6. **Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs having valid Udyam Certificate and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service, and Buyer will decide eligibility for purchase preference based on documentary evidence submitted in case of product bids, whereas in case of services the eligibility is automatically validated. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

Power Quality Analyzer (1 pieces)

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

[* जेम कैटेगरी विशिष्टि के अनुसार / As per GeM Category Specification](#)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
PERFORMANCE FEATURES	Type of Power analyzer	Three phase
	Number of Current Channels (Nos.)	4
	Number of Voltage Channels	4

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Measurable voltage range	1000.0 (Volt)
	Measurable voltage accuracy	0.04 (percent)
	Measurable voltage resolution	1.0 (Volt)
	Measurable current range (with clamp)	5000, 2000, 40, 6000 (Ampère)
	Measurable current accuracy (%)	±0.04
	Measurable current resolution	0.1 (Ampère)
	Maximum power that can be measured (KW)	4, 40, 400 (kiloWatt)
	Power Accuracy (%)	±1.5
	Power resolution	1.0 (Watt)

Additional Specification Parameters - Power Quality Analyzer (1 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
Additional specification parameters	Attached in ATC document

* Bidders offering must also comply with the additional specification parameters mentioned above.

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Sheeba. R. M	695012,Biomedical Technology Wing Sree Chitra Tirunal Institute for Medical Sciences & Technology Satelmond Palace, Poojappura, Thiruvananthapuram, Kerala, India Pin Code : 695012, Thiruvananthapuram, 695012	1	90

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$, subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1. Bidders shall quote only those products in the bid which are not obsolete in the market and has at least 10 years' residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.
2. The installation should be supported with spares for a minimum period of 10 years after successful installation and commissioning. "All the spares and consumables required for the equipment should be made available through GeM throughout the agreed supporting period". (A line of confirmation should be submitted along with the bid document.)
3. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
4. **Compliance Sheet and Brochure** of the product(s) offered in the bid, are to be uploaded along with the bid documents. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
5. **Experience:** The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt. Organization / PSU / Public Listed Company for **3 years** before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
6. **Scope of Supply** (Bid price to include all cost components): Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any) Installation, Commissioning, Testing, Configuration, Training (if any - whichever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller at consignee location free of cost. The payment will be released only thereafter.
7. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
8. Participating bidders should submit **OEM Authorization Certificate** along with the bid documents as per the format given in Buyer uploaded ATC document.
9. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if: (i) The Seller fails to comply with any material term of the Contract. (ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent. (iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly. (iv) The Seller becomes bankrupt or goes into liquidation. (v) The Seller makes a general assignment for the benefit of creditors. (vi) A receiver is appointed for any substantial property owned by the Seller. (vii) The Seller has misrepresented to Buyer, acting on which misrepresentation on Buyer has placed the Purchase Order on the Seller.

10. In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted. **Warranty** period of the supplied products shall be a minimum of **3 Years** from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
11. Performance (during Warranty period): The time spent on the repair work will be added to the warranty period of the equipment.
12. Performance (during CAMC period): Uptime means 95 percent of total days in a year during which the equipment remains functional. Down time means any shortage in achieving the up-time. Down time attracts penalty.
13. Penalty during AMC/CAMC period will be applicable as per prevailing Rules of SCTIMST as amended from time to time.
14. **Service & Support:** Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service centre is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre. BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support and provide Escalation Matrix of Telephone Numbers for Service Support.
15. **Warranty** period of the supplied products shall be a minimum of **3 Years** from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
16. The bidder should submit a declaration confirming that the Product Cost/Total Cost does not include warranty charges other than OEM Warranty. If any charges claimed by the bidder towards Three Years warranty which is included in the Product Cost / Total Cost, this fact shall be mentioned in the declaration form. Aforesaid declaration should be submitted along with the technical bid. The warranty (3 years) sought for the equipment is free warranty without any additional cost towards extended warranty and if any warranty cost is included in the equipment cost for complying with the tender condition, the same shall not be considered for arriving CAMC value. The split-up of warranty cost (if any included in product cost) shall be provided (year wise) by the bidder in the financial document sought for. The proforma is available in the Buyer uploaded ATC document.
17. Successful bidder will have to ensure that adequate number of dedicated technical service personals/engineers are designated/deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing/rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid. After having been notified of the defects/service requirement during warranty period, Seller has to complete the required Service/Rectification within 3 days' time limit. If the Seller fails to complete service/rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service/rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller

shall be liable to reimburse the cost of such service/rectification to the Buyer.

18. User list: The bidder shall submit the user list of National Institutes/Govt.Organisation in India along with the bid for verifying the performance of the equipment as well as after sale service.
19. **List of Essential Spares & Consumables:** If the equipment contains any essential spares and consumables, the price shall be frozen for a minimum period of 3 years after warranty period. The price of the spares and consumables should be submitted separately by the bidder in the financial document sought for. The format is available in the Buyer uploaded ATC document. This is for the purpose of price freezing only. However, the bid price shall be inclusive and the equipment be supplied with all essential spares and accessories as per standard delivery and normal functioning of the machine.
20. If the item involves software, the successful bidder should obtain software license in the name of 'Director, SCTIMST' and the paper license / email license to be transferred to the name of Institute.
21. **Malicious Code Certificate:** The seller should upload following certificate in the bid: -
 - a. This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to: - (i) Inhibit the desired and designed function of the equipment, (ii) Cause physical damage to the user or equipment during the exploitation, (iii) Tap information resident or transient in the equipment/network.
 - b. The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.
22. **Performance Bank Guarantee:** The successful bidder should furnish a performance guarantee/security deposit @ 5 percent of purchase order value for a period of 60 days beyond the completion of all contractual obligations of the supplier including warranty. Besides ePBG, PBG can also be submitted in the form of Bank Guarantee, FD Receipts pledged in the name of Director, SCTIMST or Account Payee Demand Draft drawn from a nationalized bank favoring The Director, SCTIMST payable at Thiruvananthapuram. The PBG format is shown in the Buyer uploaded ATC Document. Hard copies of PBG in original should reach the buyer within 15 days of award of contract.
23. **Restrictions under Rule 144 (xi) of GFR 2017:** Any bidder from a country which shares a land border with India will be eligible to participate in this bid only if the bidder is registered with the Competent Authority in accordance with restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017 as amended from time to time. The bidders shall enclose the following certificate along with the bid documents. *"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this vendor/bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this vendor/bidder fulfills all requirements in this regard and is eligible to be considered for procurement from GeM. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]."*
24. **Liquidated Damages:** If the supplier fails to deliver or install/commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the Purchase Order/GeM Contract, the Buyer shall, without prejudice to other rights and remedies available to the Buyer under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached, Buyer may consider termination of the contract.
25. If any delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions: (a) Imposition of liquidated damages, (b) Forfeiture of its Performance Security and (c) Termination of the Contract for default
26. Bidders must ensure that only the concerned document is uploaded in a particular field for document upload. Uploading the same document in multiple fields should be avoided.
27. Bidder's offer is liable to be rejected if they do not upload any of the certificates/ documents sought in the Bid document, ATC and Corrigendum if any.
28. Item should be supplied only on FOR Destination Basis (inclusive of unloading charges). Unloading charges need to be borne by supplier only.

Technical Specification for Three Phase Power Quality Analyzer

1. Scope of Supply

Supply, installation, demonstration and training of a portable **Three Phase Power Quality Analyzer with Class-A accuracy** suitable for monitoring, recording and analysis of power quality parameters in electrical distribution systems, UPS systems, generators, transformers, motors, sensitive equipment installations and energy audit applications.

The system shall include:

- Three Phase Power Quality Analyzer – 1 No.
- Flexible current sensors/probes up to 1000A AC – 4 Nos.
- Rigid precision current sensors for low current measurement AC – 4 Nos.
- Current sensors/probes up to 100A DC – 1 Nos.
- Voltage measurement leads and accessories
- Power adaptor (if the unit is not supporting self-powering option)
- Communication cables
- Carrying case
- Analysis/report generation software
- Calibration certificate
- User manual

2 Power Quality Analyzer Specifications

Parameter	Required Specification
Measurement standard	Shall comply with IEC 61000-4-30 Class A
Power quality compliance	IEC 61000-4-7 (Harmonics), IEC 61000-4-15 (Flicker) or equivalent
Measurement type	Three phase + Neutral power quality recording
Voltage channels	Minimum 4 independent voltage input channels (L1, L2, L3, N/PE)
Current channels	Minimum 4 independent current input channels
Supported systems	Single phase, split phase, 3-phase 3-wire and 3-phase 4-wire networks Should support correction of phase connections through the equipment Graphical User Interface.
Safety rating	Minimum CAT IV 600V / CAT III 1000V
Display	Integrated colour touchscreen display ≥ 7 inch
Sampling	High-speed digital sampling (Up to 1 MHz for transient and 80 kS/s for normal logging) suitable for transient and Power Quality analysis

ADC resolution	≥18 bit
Frequency range	42.5 Hz to 69 Hz or better
Data storage	Internal memory ≥8 GB or expandable memory
Real-time monitoring	Required

3. Voltage Measurement

Parameter	Specification
Voltage range	Minimum 1 V to 1000 V AC/DC
Voltage accuracy	≤0.2% or better
Crest factor measurement	Required
RMS measurement	Half-cycle and continuous RMS recording
Neutral voltage measurement	Required
Over voltage/under voltage detection	Required

4. Current Measurement

Flexible Current Sensors (Rogowski Type)

Parameter	Specification
Quantity	Minimum 4 Nos.
Type	Flexible current sensor suitable for large conductors/bus bars
Current range	1A to 1000A AC minimum
Frequency response	Suitable for harmonic analysis
Accuracy	<1.4%
Installation	Clamp-on without circuit interruption
Safety	Same category rating as analyzer

Rigid Current Sensors (Low Current Clamp Type)

Parameter	Specification
Quantity	Minimum 4 Nos.
Type	Rigid jaw clamp CT
Measurement range	1A to 40A AC minimum
Application	Low current feeder, equipment and leakage/precision load monitoring
Accuracy	<1%
Jaw opening	Suitable for standard electrical cables
Safety rating	CAT III/CAT IV preferred

Parameter	Required Specification
Type	Clamp-on type DC current sensor/probe based on Hall-effect or equivalent non-intrusive measurement technology
Measurement capability	DC current measurement
DC current measurement range	Minimum 1 A to 100 A DC
Minimum measurable current	≤ 1 A
Accuracy	<4% of reading
Resolution	0.1 A or better
Output	Compatible with offered Power Quality Analyzer (voltage/current output as required)
Frequency response	DC to minimum 10 kHz or better
Jaw opening	Minimum 10 mm suitable for standard electrical cables
Zero adjustment	Manual or automatic DC zero adjustment facility required

Polarity indication	Required for DC measurement
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Overload capability	Required
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5. Power Measurement Parameters

Analyzer shall measure and record minimum:

- Voltage (Phase-Neutral, Phase-Phase)
 - Current
 - Frequency
 - Active Power (kW)
 - Reactive Power (kVAR)
 - Apparent Power (kVA)
 - Power Factor
 - Displacement Power Factor
 - Energy (kWh, kVAh, kVARh)
 - Load unbalance
 - Demand parameters
-

6. Harmonics and Power Quality Analysis

Parameter	Requirement
Voltage harmonics	Up to minimum 100th harmonics
Current harmonics	Up to minimum 100th harmonics
Inter-harmonics	Up to minimum 100th harmonics
THD measurement	Voltage & Current THD
Harmonic direction/analysis	Preferred
Flicker measurement	Pst & Plt according to IEC standards
Unbalance measurement	Required
Frequency variation	Required

7. Event Recording Capability

The instrument shall automatically detect and record:

- Voltage dips/sags
- Voltage swells
- Interruptions
- Rapid voltage changes
- Transients
- Inrush current

- Waveform events

Minimum requirements:

Parameter	Specification
Transient capture	≥8 kV peak capability
Waveform capture	Required
Event trigger	Automatic/user configurable
Event timestamp	Required

8. Data Logging

Feature	Requirement
Recording duration	Continuous long-term(minimum 24 hours) logging capability
Logging interval	User configurable
Multiple parameter recording	Required
Real-time clock	Required
Event tagging	Required
Screenshot/report capture	Preferred

9. Communication & Software

Analyzer shall have:

- USB communication
- Ethernet interface
- PC-based analysis software

Software shall support:

- Downloading recorded data
- Graphical waveform analysis
- Harmonic reports
- Trend analysis
- Event analysis
- Energy reports
- Automatic report generation
- Export to PDF/CSV or equivalent formats

10. Power Supply & Environmental

Parameter	Requirement
Internal battery	Rechargeable Li-ion
Battery backup	Minimum 1 hour
Operating temperature	0°C to 40°C or wider
Protection	Rugged field enclosure
Weight	Portable handheld type <2.5 Kg

A suitable power adapter, if required, shall be provided to enable continuous power monitoring of the device.

11. Calibration & Certification

Vendor shall provide:

- Factory calibration certificate traceable to national/international standards (As per ISO 17025 accredited calibration)
- IEC 61000-4-30 Class A compliance certificate/documentation
- Warranty certificate
-

12. Warranty & Support

- Minimum warranty: **3 years comprehensive warranty for analyzer**
- Minimum warranty: **1 year for accessories/probes**
- The vendor shall ensure availability of service support within India, with at least one service engineer should be available within Kerala.(proof should be attached)
- OEM/authorized dealer should quote with necessary proof
- Free Software updates during the three-year warranty period
- Demonstration (including 24 hours logging) and user training (minimum one day) shall be provided
-
- **13. Kindly quote the item as per specification attached in the ATC document.**
-

3. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

अस्वीकरण/Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer, is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel

the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate

action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---