



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5599957
Dated/दिनांक : 19-12-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	02-01-2025 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	02-01-2025 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Science And Technology
Department Name/विभाग का नाम	Department Of Science And Technology (dst)
Organisation Name/संगठन का नाम	Sree Chitra Tirunal Institute For Medical Sciences And Technology (sctimst)
Office Name/कार्यालय का नाम	Thiruvananthapuram
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	Higher Rating Diesel Generating Sets (1010 kVA and above) (Q3)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Additional Doc 2 (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
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid

Bid Details/बिड विवरण

Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Estimated Bid Value/अनुमानित बिड मूल्य	11000000
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	275000

ePBG Detail/ईपीबीजी विवरण

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

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई कैटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

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

Beneficiary/लाभार्थी :

DIRECTOR, SCTIMST

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, Department of Science and Technology (DST), Ministry of Science and Technology
(Director, Sctimst)**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. Experience Criteria: In respect of the filter applied for experience criteria, 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 for number of Financial years as indicated above in the bid document 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 Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
4. 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.
5. Purchase preference will be given to MSEs having valid Udyam Registration 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. 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. In respect of bid for Services, the bidder must be the Service provider of the offered Service. 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, while evaluating the bid. 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. 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. 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.
6. 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.

7. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
26-12-2024 14:00:00	<p>Meeting online and offline For online Join from the meeting link https://sctimst.my.webex.com/sctimst.my/j.php?MTID=mcec0f638aeda65876832ad2e37e5c100 Join by meeting number Meeting number (access code): 2644 517 1290 Meeting password: 12345 Join by phone Use VoIP only Join from a video system or application Dial 26445171290@webex.com You can also dial 210.4.202.4 and enter your meeting number.</p> <p>For offline meeting: Attend at Mini Conference Room, 3rd floor, AMCHSS, SCTIMST on 26.12.2024 at 02.00Pm For any queries please sent email to purchase@sctimst.ac.in on or before 24.12.2024.</p>

Higher Rating Diesel Generating Sets (1010 KVA And Above) (1 pieces)

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

Technical Specifications/तकनीकी विशिष्टियाँ

* जेम कटेगरी विशिष्टि के अनुसार / As per GeM Category Specification

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
ENGINE	Type of Engine cooling	Radiator Cooled, Heat Exchnager Cooled
	Type of governer	Electronic, Electronic-Isochronous Or higher
	Class of governer	A1, A0 Or higher
OUTPUT CAPACITY RATING/ PHASE	Nominal Rated Capacity (kVA)	1010, 1250, 1500, 1750, 2000, 2250, 3000
ALTERNATOR	Alternator Voltage Rating	415, 3300, 11000 (Volt)
	Wiring System	4 Wire, 6 Wire
	Voltage Regulation Grade upto 1250 kVA	NA, VG 1, VG 2, VG 3 Or higher

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	Voltage Regulation Grade above 1250 kVA	NA, G 1, G 2, G 3 Or higher
CONTROL PANEL	Control Panel	Manual, AMF
	Location of Control Panel	Inside the Acoustic Enclosure, Outside the Acoustic Enclosure
ACOUSTIC ENCLOSURE	Acoustic Enclosure inclusive in the scope of supply	With Acoustic Enclosure, Without Acoustic Enclosure
FUEL TANK	Number of Fuel Tanks supplied with each DG Set (inclusive in the scope of supply)	0, 1, 2 Or higher
SCOPE OF INSTALLATION	Installation	With Installation - inclusive in the scope of supply, Without Installation(Required technical input and supervision will be provided to buyer installation team)
	Scope of installation for Diesel Generating Set(Part-1) when offered by the vendor - inclusive in the scope of supply	Scope of installation when offered by the seller (With Installation - inclusive in the scope of supply) :- a) Installation of DG Set when offered by the vendor is inclusive in the scope of supply and shall be done by the seller. The installation work of DG Set and its constituent parts shall be generally conforming to CPWD General specification for Electrical Works, Part - VII - latest. b) Foundation shall be constructed by the seller. Foundation shall be of PCC type with the ratio of 4:2:1. The length and breadth of the foundation shall be 300 mm more from the respective length and breadth of the DG set. The height of the foundation shall be 400 mm, i.e., 200 mm below and 200 mm above the ground level. All the materials / labour required for foundation work shall be supplied by the seller., Not Applicable as Installation not offered
	Scope of installation for Diesel Generating Set (Part 2)when offered by the vendor - inclusive in the scope of supply	c) Supply, laying and termination of interconnecting power and control cable between Seller's supplied equipments shall be done by the seller. The interconnecting cable supplied along with each DG Set shall be of suitable current rating and shall be sufficient for a distance of 60 metres. For DG Sets having voltage rating upto 415 Volts, the cable supplied shall be ISI marked heavy duty PVC insulated, armoured cable, with PVC outer Sheath of Type ST-2 (FR Grade, Category C1), with aluminium conductor having insulation of PVC compound type -C, suitable for rated voltage upto and including 1100 volts and conforming to IS: 1554 (Part-1) latest. For DG Sets having voltage rating from 3300 Volts upto and including 33000 Volts, the cable supplied shall be ISI marked XLPE, armoured cable, with PVC outer Sheath of Type ST-2 (FR Grade, Category C1), with copper conductor having XLPE insulation, suitable for rated voltage from 3.3 kV upto and including 33 kV and conforming to IS: 7908 (Part-2) latest., Not Applicable as Installation not offered

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
	Scope of installation for Diesel Generating Set (Part 3)when offered by the vendor - inclusive in the scope of supply	d) Construction of suitable earthing station and necessary connections shall be done by the seller. All the materials / labour required for construction of earthing station shall be supplied by the seller. The total number of earthing pits/stations shall be 4, i.e., 2 for neutral and 2 for body-earthing. Netutral earthing shall be done with copper Plate and Body earthing shall be done with G.I. plate / Copper. The consignee should choose installation site in such a way that the earthing stations can be made within 10 metres of the DG set. Earthing station shall be typically constructed as per prevalent standard practices and shall be generally conforming to CPWD General specification for Electrical Works, Part - VII & Part - I - latest. e) Installation of Fuel Tank(s) including foundation / stand, where applicable, shall be done by the seller., Not Applicable as Installation not offered
	Above Scope of installation for Diesel Generating Set(Part-1 + Part-2 + Part-3) when offered by the vendor has been seen, read, understood and agreed to comply	Yes, Not Applicable as Installation not offered
WARRANTY & SERVICING	Warranty	12, 24 Or higher (month)
TEST REPORTS	Test report issuing authority for Engine Rating as per IS: 13018 latest / ISO 3046-latest	Engine Manufacturer, Witnessed by Central government/NABL/ILAC accredited agency
	Availability of Type test report for Alternator from Central government/NABL/ILAC accredited laboratory to prove conformity to the specifications	Yes, No

Additional Specification Parameters - Higher Rating Diesel Generating Sets (1010 KVA And Above) (1 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
Additional Specification	Bidders should submit declaration regarding the additional specifications mentioned in Buyer Added Bid Specific ATC
Remarks	Price formats A, B, C, D and E should be submitted along with Price Bid only.

Specification Parameter Name	Bid Requirement (Allowed Values)
General Condition 1	The contractor shall get the site specific structural drawings of all civil structural works proof checked by IIT/NIT/Government Engineering College and the contractor shall ensure that the construction works carried out as per the proof checked drawings. A final inspection report after work completion by proof checking agency is also to be submitted. The cost of design inspection & proof checking shall be borne by the contractor/bidder.
General Condition 2	The bidder shall necessarily visit the site and get familiar with the site conditions before preparing the bid documents.

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

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

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Shiju V S	695011,Sree Chitra Tirunal Institute For Medical Science and Technology,Medical College PO, Trivandrum	1	60

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

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 by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

Director, SCTIMST
payable at
Thiruvananthapuram

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

3. Forms of EMD and PBG

Bidders can also submit the EMD with Fixed Deposit Receipt made out or pledged in the name of A/C

Director, SCTIMST

. The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of EMD, the FDR will be released in the favour of the bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Bidder has to upload scanned copy/ proof of the FDR along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date/ Bid Opening date

4. **Generic**

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

5. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 7 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

6. **Warranty**

Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide Comprehensive Maintenance Service for next 5 years for the offered products at the rate not more than 5 % of contract price per annum. Buyer reserves the right to enter into a CMC agreement with the Successful Bidder / OEM after expiry of the Warranty period at above mentioned rate and the payment for the CMC charges would be made Biannually after rendering of the CMC Services of the relevant CMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the CMC contract when called upon by the buyer. CMC would include cost of

As per specification

(Upload the undertaking). The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 3% of total CMC value valid up to CMC period plus 2 months (if there is no other claim).

7. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

8. **Generic**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

9. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

DIESEL GENERATING SETS & ANCILLARIES

1. Scope

- a. The scope of work covers the design, material, constructional features, manufacturing, inspection and testing at suppliers works, delivery to site, erection, performance testing and commissioning of the DG set complete with fuel system, exhaust system, etc., all other supporting systems complete as required. The capacity of D.G Sets: -

1 Nos. 1010 KVA prime power DG Set complete with all the accessories like batteries, battery charging arrangement, fuel system, exha

ust system etc.

- b. The required AMF (Auto Mains Fail) panel relay and control shall be supplied along with D.G.sets for integration into existing panel. The required controls, indications and interlocking and defeating the auto mode to manual mode shall be provided by the Panel supplier. All the required power and control cables as well as earthing of the equipments and AMF panels shall be quoted even if not specifically mentioned. Neutral grounding electrodes shall be part of the tender by copper plate earth electrodes and 50x6mm copper flats for connecting the neutral with the electrodes.
- c. DG AMF wiring, bus duct, Power and Control Cables for all its accessories and for controls shall be scope of D.G.sets supplier.
- d. Battery system with chargers with single pole knife type switch for isolation of battery from engine (One for Positive and one for Negative).
- e. Remote radiator Cooling system.
- f. Room acoustic for the DG set room.
- g. Fuel Day Tank and related piping. Fuel tank should be with level indicator and marking.
- h. Exhaust system with piping & insulation, its lagging supports, etc.
- i. Erection and commissioning of above equipment including piping.
- j. Civil foundation for the DG set, Fuel Tank and for the required accessories like remote radiator.
- k. The equipment is to be supplied on turn-key basis. Hence any material or accessories which may not have been specifically mentioned but which usually is necessary for satisfactory and trouble-free operation and maintenance of the equipment, shall be furnished by the vendor without any extra charge to the owner.

DG Set shall be without acoustic enclosure and shall have a common bed plate mounted and complete in all respect including the ancillary equipment such as batteries, auxiliary lube oil pumps, filters, exhaust piping stack with proper supports as per pollution control board norms, oil storage tank etc. including piping required for interconnection between the set and

d the diesel tank which are mounted separately. The set shall be mounted in sound proof room as per CPCB norms.

Rating of the diesel alternator shall be based on the operation of the set when equipped with all necessary operating accessories. The complete set shall be capable of producing specified output continuously at the climatic conditions mentioned below.

Climatic condition

Ambient temperature 10 to +40°C

Altitude upto 50 M above mean sea level

Design of the equipment should take these conditions into account. The equipment shall be given tropical and anticorrosion treatment.

2. Acoustic Enclosure

Room acoustic enclosure shall be provided for the DG set. This enclosure shall conform to the pollution control norms of the Pollution Control Board/ any other statutory authority and Environment Pollution Act with its latest amendments

3. Diesel Engine

a) Construction

Engine shall be of robust construction suitable for prime rated operation. Bearing housings shall be sealed against ingress of dirt and loss of lubrication. The diesel engine shall be four stroke, multi-cylinder type but not less than four cylinders. The engine rating shall be higher than alternator.

b) Material

The selection of suitable material shall be the responsibility of the contractor in accordance with accepted practices. Full details of the material of

construction for major components shall be included in the offer.

c) Filters

The following filters shall be used :

- i) Air - Paper type air filters for direct mounting on the engine air manifold or as specified by the engine manufacturer.
- ii) Fuel - Duplex fuel oil filters or as specified by the engine manufacturer.
- iii) Lubricating oil - Simplex lube oil filters or as specified by the engine manufacturer.

d) Governor

Governor should be Electronic type. Governor should maintain the speed within 1/8 cycles minimum, of 50 cycles from no load to full load generator output. The frequency at any constant load, including no-load, shall remain within a steady state band width of rated frequency. The governor shall not permit frequency modulation to exceed one cycle per second.

e) Fuel System

Fuel system shall have gravity feed to engine driven fuel pump and a replaceable element fuel filter conveniently located for servicing. Contractor shall provide fuel oil tank of specified capacity with supports, gauge and connecting piping upto fuel oil pump suction header. The fuel tank should be of floor mounted type fabricated out of 3mm thick MS sheet steel painted and with standard accessories like fuel level indicator, fuel inlet and outlet air vent, drain plug inlet arrangement for direct filling and set of braided fuel hoses.

f) Lubricating oil

All lubricating points of the engine shall be connected to pressure oil

system. The system shall be so designed that when the engine starts after prolonged shutdown, lubrication failure does not occur. Oil drippings from lubricating points shall have connections to the oil sump and get recirculated. Full flow strainer shall be fitted with level gauges for visual observation. Contractor shall provide motor driven lube oil pump if required to keep the bearings primed. Its power consumption to be indicated. The frequency and duration of the pump operation to be specified.

g) Starting System

Engine shall be started by 24V D.C. starting motor engaging on the toothed ring of the flywheel.

h) Ladders and Platforms

Necessary platforms and railings shall be provided by the contractor around the engine if required.

i) Installation and Silencer

The foundation drawing of the D.G. Set shall be provided by the Contractor, and it is the responsibility of the contractor to provide the Accepting Authority with all drawings, design calculations, etc. well in advance as per the manufacturer's specifications and meeting statutory standards and requirements. Contractor shall provide skid mounting with common base plate and all mounting structure, shims, etc., for the diesel alternator set. Contractor has to mount the engine with alternator on the base plate and align and assemble the set. Suitable anti-vibration mountings as approved for the complete set shall be provided. Coupling (both halves) with guards shall be provided. Contractor shall provide insulated exhaust piping with Aluminium cladding for each set and there should be hood on top of the exhaust pipe and the work should be as per electrical inspectorate rules and pollution Control specification. The stack and stack foundation shall be provide as pollution Control specification.

Exhaust stack height:

In order to dispose exhaust above building height, minimum exhaust stack height should be as follows:-

(a) For DG set above 1000KVA :-

30m High or 3m above the building height, which ever is higher.

j) Insulation of the exhaust pipe shall be carried out as follows

i) Surface shall be thoroughly cleaned with wire brush and rendered free from all foreign matter and grease.

ii) 75 mm thick insulation fixed tightly to the surfaces butting all joints and tightened with lacing wire. (Type of insulation to be got approved by the Engineer-in-charge).

iii) Insulation to be wrapped with aluminium sheet 26 gauge and joints overlapped and sealed with adhesive tape and in addition fixed with cadmium coated steel screws.

k) Instrumentation & Controls

Instrumentation shall be housed in the control panel of the DG set.

Following instruments shall be provided :

i) Cooling water/ coolant temp. indicator (deg.C)

ii) Lubricating oil temperature indicator (degree C)

iii) Lubricating oil pressure low (psig).

iv) Tachometer

v) Engine run hour and RPM meter

vi) Engine over speed and under speed indicator

vii) Cooling water/ coolant temperature high (alarm & light)

viii) Low lube oil pressure (alarm & light)

ix) Engine start - stop control switch with keys

x) Battery voltage indicator

Multifunction Electronic/ digital meters indicating the above parameters shall also be acceptable.

l) Controls

Following protective devices and equipment shall be provided for the engine protection

i) Electronic overspeed governor and shutdown device, visual and audible alarms and associated devices shall be provided to stop the engine in the event of any of these faults.

- a) Low lubricating oil pressure.
- b) Excessive cooling water/ coolant temperature.
- c) Overspeed and under speed (alarm & trip)
- d) High Vibration (alarm & trip)
- e) High bearing temperature (alarm & trip)
- f) Exhaust gas temperature high (alarm & trip)
- g) Charge air temperature high (alarm & trip)
- h) Jacket water temperature high (alarm & trip)
- i) Lubricating oil temperature indicator (alarm & trip)
- j) Lubricating oil pressure low (alarm & trip)

4. Alternator

a) Standards

Alternator shall be in accordance with the relevant Bureau of Indian Standards prevailing on date (IS 4722) with upto date amendments.

b) Type

The machine will be of rotating field stationery armature type, brushless, self-excited, and self regulated air cooled with IP classification 23. The excitation supply shall be obtained from a shaft mounted exciter, an A.C. generator, supplying the field winding through shaft mounted rectifier from the alternator terminals.

c) Technical data for the Alternator shall be as indicated below:-

I.	Rated KVA (at site conditions)	-	1010 kVA
II.	Power factor	-	0.8 (LAG)
III.	Duty	-	prime duty
IV.	Rated rpm	-	1500
V.	Voltage	-	415V
VI.	Number of poles	-	4
VII.	Rated Frequency	-	50 Hz
VIII.	Over speed	-	20 % for 2 minutes
IX.	Over load	-	NA
X.	Insulation class	-	H
XI.	Enclosure	-	IP 23
XII.	No. Of bearings	-	2
XIII.	Excitation	-	Brush less.
XIV.	Type of AVR	-	Static
XV.	Connection	-	Star
XVI.	Termination box	-	IP 55

d) Performance

The voltage regulation from no load to rated full load shall be within a band +1 to -1% of rated voltage. Steady state voltage modulation shall not exceed one cycle per second. For any addition of load up to and including 90% of rated load, the voltage dip shall not exceed 10% of rated voltage. The voltage shall recover to and remain in

the steady band in not more than 1.5 seconds. The frequency regulation from no load to rated load shall be in accordance with that defined by the engine governor performance. For any addition of load upto 90% of rated load, the frequency shall recover to the steady state frequency band within 5 seconds.

e) Enclosure

Alternator stator enclosure shall preferably be totally enclosed fan cooled (IP 21). However, if this is not feasible, a screen protected drip proof (SPDP) enclosure may be accepted, provided special treatment is given to winding, such as double impregnation of windings. The stator frame shall be either of cast iron or of fabricated steel construction.

f) Terminal Boxes

The main terminal box for alternator output terminals shall be suited for termination and connection of aluminium conductor armoured cable. A control terminal box shall be provided on the base frame. All wirings from electrical/ instrumentation equipment or devices on the engine alternator shall be brought up to this terminal box from where external wiring to other equipment shall be carried out.

g) Earth Terminals

Two number 12 mm dia earth terminals to be provided on opposite sides of the alternator, complete with all hardware, including plain and spring washer for secure, vibration-proof connections; all hardware to be galvanized or plated and passivated.

h) Voltage Regulations

Contractor shall submit in his quotation the momentary voltage dips and period required for voltage to recover its normal value corresponding to loading performance of the set.

i) Winding

The alternator winding shall be of Copper and render them non-hygrosopic and resistant to acidic/alkaline vapours. Class 'H' insulation shall be used for stator and rotor winding.

j) Space Heaters

Anti-condensation space heaters shall be provided to maintain winding temperature 5 Deg. above ambient temperature. The heaters shall be suitable for operation on 240 V, 1 Phase, 50 Hz., A.C. Supply, Heater terminals shall be brought out to a separate terminal box. A caution name plate 'Caution Live Terminals - Isolate Supply Elsewhere Before Disconnecting' shall be affixed on the terminal box. The space heaters shall be of metal encased and low surface temperature type.

k) Base Frame

Engine and Alternator shall be coupled and mounted on a sturdy, fabricated, welded construction; channel iron base frame with coupling guard and antivibration pads.

The Generator Communications Module

The Genset Communications Module (GCM) shall be provided an interface for 1010kVA DG Set to the Network only. The GCM shall be provided with local or remote monitoring and control of the Generator. The GCM shall include start, stop, emergency stop or reset a fault of the Generator.

GCM shall be capable to provide following real time data and protections.

1. Voltage (3-phase)

2. Engine speed
3. Current (3-phase)
4. Engine temperature
5. Genset status
6. Percent load
7. Oil pressure
8. Power factor
9. Oil temperature
10. Frequency
11. Battery voltage
12. Fault status
13. Energy

GCM shall be capable to provide following Annunciation.

1. Paralleling
2. Emergency stop
3. Low battery voltage
4. Low AC voltage
5. Pre-high engine temp
6. Under frequency
7. Overcurrent
8. Short circuit
9. Overspeed
10. Reverse power
11. Fail to start
12. Overspeed
13. Loss of field

- 14.Low coolant level
- 15.Fail to synchronize
- 16.Overload
- 17.Winding temperature high, alarm and trip
- 18.Bearing temperature indicator
- 19.Rotor E/F relay

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Eligibility Criteria for specialized DG Set associate firm

1. The firm should be registered with GST.
2. Self attested copies of completion certificate(s) issued by the officer of the client department, not below the rank of Executive Engineer or equivalent, for works executed in Government and in cases of private works certificates signed by the consultant in charge and counter-signed by the owner of the building for whom the work has been carried out, will have to be furnished along with the application. The completion certificate must clearly indicate:-
 - i. Name of Work
 - ii. Stipulated date of start and actual date of completion.
 - iii. Value of **DG Set** work.
 - iv. That the work has been completed satisfactorily.
 - v. Full address of the client, officer issuing certificate and location, where work is executed.
 - vi. TDS.(for private works only)
3. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

4. At the time of submission of tender document the contractor shall submit:
- i. Written commitment from OEM/OEA to supply the DG Sets and delivery schedule as per requirement of department.
 - ii. Certificate from OEM/OEA or authorized service provider of engine manufacturer for satisfactory installation and commissioning of DG Set after completion of the work.
 - iii. Required Guarantee of DG Set from OEM/OEA in favour of Engineer-in-Charge to cover defect liabilities
 - iv. An undertaking that mandatory free service is carried out during the guarantee period by the authorized service provider of engine manufacturer.

Commercial and Technical specifications for DG Set Specification

The work shall be executed as per, CPWD General Specifications for Electrical Works Part VII D.G. Sets 2013, Part-I(Internal)-2013, Part-II(External)-1994, Part-IV(Sub-station)-2013, IERules, Indian Standards amended upto date and as per direction of Engineer-in-Charge. The additional specifications are to be read with above and in case of any variations; specifications given along with the tender shall apply.

Location:- The work is to be executed at **SCTIMST, Trivandrum**. The

Contractor is advised to visit the site before submission of their tender and ensure that equipment being offered by them shall be accommodated in the spaces available..

Rates:-The rates shall be inclusive of all taxes, levies, packing,

transportation, handling etc. Nothing extra shall be paid.

Storage:- Responsibility for storage space for execution of work shall be of

Main contractor.

Power & Water Supply:- Responsibility for supply of power & water for execution of work shall be of main contractor.

T&P:- The department will not issue any T&P for execution of the work.

Pre-commissioning test:- Before commissioning of the installation, all tests Recommendations shall be carried out and result submitted.

Acceptable make:- The acceptable make of various equipment are indicated in the list attached. Alternative or equivalent make will not be accepted.

Care of Building:- The contractor will have to ensure that no damage is caused to the building during execution of the work. The contractor will have to repair any damage caused during execution of the work, failure of which the department will repair the same at the risk & cost of the contractor.

Approval of Drawings: After award of the work, the contractor will have

To submit following [drawings:-](#)

Single Line Diagram of DG set work. Drawings of control and power circuitry.

Any other drawing considered necessary by Engineer-in-Charge.

Work will be started after getting the above drawings approved by the Engineer-in-charge

Payment Terms:- The Following percentage of contract rates shall be

Payable against the stages of work shown herein:

Sl.No	Stage of Work	DG set
I)	After initial inspection (wherever specified) & delivery at site in good Condition on pro-rata basis	60%
II)	On completion of installation	20%
III)	On testing, commissioning and handing over to the department for beneficial use	20%

Final inspection:-After completion of the work, the contractor will demonstrate trouble free operation of the system to the Engineer-in-Charge. In case any deficiencies are noticed during the demonstration, the same will be attended by the contractor promptly.

Completeness of Tender: All sundry materials such as Foundation Bolts,

Hardware Items, Junction Boxes, Sleeves, Flexible conduit etc. which are not specifically mentioned in the tender but are required for completion of the work, will be deemed to be included and the contractor will be bound to provide the same without any extra cost.

Minor Building Work: Minor building work such as Foundation, making

Opening in Walls/Slab for passage of pipe, making chases, fixing suspenders in Slab/Walls and furnishing the damages to the building to the satisfaction of Engineer-in-Charge etc. are to be executed by the contractor as a part of the work and nothing extra shall be paid for the same.

Indemnity: The contractor will be fully responsible for any accident taking

place during execution of the work. The department will not take any responsibility for the same.

Completion Plan/ Drawings: After completion of the work the contractor

will submit completion plans, wiring drawings of equipment, catalogue etc. which are required for maintenance of the system.

Payment: Payment shall be released only after submission of GST.

Responsibility for the same will lie on the part of the contractor and no claim/interest etc. will be paid by the department on this account.

The contractor shall make payment to the worker through Cheque / RTGS / D.D. and a proof of making payment through

Cheque /RTGS/D.D. may be submitted along with running account bill of contractor.

Approval from Kerala State Electrical Inspectorate/CEA:- The Contractor

Shall be required to obtain installation approval from Kerala State Electrical Inspectorate / CEA and the work shall be deemed to be completed only after receiving approval. Statutory fee if any shall be paid by department. However all liaisoning work / arranging inspection of Inspectorate / CEA shall be the responsibility of contractor.

The material in required quantity to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.

Contractor shall preserve the copies of invoices, test certificates, gate passes etc. to prove the genuineness of material / purchases. The responsibility of procurement, genuine material of specialized works shall rest with the contractor.

No inspection outside the country is permissible if required so the same will be deemed to be waived off and necessary test reports shall be submitted before the dispatch of equipment.

Guarantee & Defect Liability Period:

The entire installation shall be guaranteed for a period of one year from the date of taking over the installation by the department, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The critical components of the Diesel Engine of DG set, such as cylinder head, cam shaft, crank shaft, connecting rod and cylinder block shall be guaranteed for five years or 5000 hrs (whichever is earlier) from the date of supply. Guarantee certificate for the DG diesel engine from the respective manufacturers shall be submitted before releasing initial payment. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

Additional technical specifications for DG Set

- 1.** The required relays, meters, CT etc. Mentioned in the tender shall be provided by the agency and shall be calibrated/tested as per instruction of the Kerala Electrical Inspectorate/CEA.
- 2.** The contractor shall avail all statutory approvals for energizing the DG set from various statutory bodies. This shall be deemed to be part of the contract and shall be executed without additional cost.
- 3.** The Restricted Earth fault protection and low set stand by earth fault relay layout put contacts shall be capable of tripping ACB of DG set. Restricted earth fault relay shall shut off the fuel supply to diesel engine of DG set on occurrence of restricted Earth fault also. The cost of providing inter connection cabling for trip circuits of DG set and other control cabling, associated works etc. shall be deemed to be included in scope of the items included under the sub head for DG set. Master trip elements wherever required shall be provided whenever multiple breakers are to be triggered and this shall be included without extra cost.

4. Reactive power relays may be either integrated to existing relays or may be separate as required.
5. The design details of exhaust piping arrangement for DG set may be availed from OEM with design calculations of back pressure and other DG related parameters and incorporating the structural side of the installation. This shall be done well in advance to ensure that the same is approved / vetted by the department officials to ensure smooth execution of the item.
6. The foundation design details for DG set proposed to be installed outdoors shall be proposed by the agency after availing Soil Investigation Report data at the location from the department. The design calculations certified by the OEM may also be submitted based on the soil investigation report from department for providing foundation for the DGsets.
7. The back pressure of calculations of exhaust piping with GA drawings supported by design calculations shall be furnished duly certified by the OEM for review and suggestions by the department prior to execution of work of exhaust piping well in advance.
 8. All relays shall be calibrated and test certificates shall be furnished.
 9. Pre-commissioning calibration of relays and breaker units shall be done as per the instructions of the Kerala Electrical Inspectorate/CEA. Also, protection CTs of rating, class and burden stipulated by the Kerala Electrical Inspectorate/CEA shall be provided and procurement of these items shall be done only as per the instruction of the Kerala State Electrical Inspectorate/CEA.
 10. All in comer, out goings, bus bar chambers, cable chambers of panel board, earthing stations, down conductors, earth bench etc. shall be labeled as per conventions laid down by the Kerala State Electrical Inspectorate/CEA. Whenever control cabling from CTs is wired from alternator terminal to DG synchronization panel or from transformer to main LT Panel, the burden of CTs may be chosen considering the burden by the length of control Cable and burden matching to that of relays connected to them. The control cabling shall be armoured type of 2.5 sq.mm size with sufficient number of cores and shall be laid at not less than 60 cm depth in DWC pipe when laid outside and suitably clamped inside or laid in cable tray.

ay and shall be . Multi core Armoured control Cable may be clamp ed through wall or cable trays when installed inside. Care may be taken to ensure that control cabling is not laid along with power c ables to avoid EMI and associated interference issues. However th is may be done as per specific recommendations of DG manufactu rer and Synchronizing panel.

- 11.** The laminated schematic diagram of power distribution and control circuitry shall be provided in duplicate for future reference by the agency.
- 12.** DG set shall be factory tested for 13 hours which include 12 hours a t 100% load and 1 hour at 110% load. The above testing shall be included in the rate quoted by the agency.
- 13.** DG set shall be CPCB IV+ compliance as per new Kerala Pollution C ontrol Board norms.
- 14.** The DG set display unit shall also display Frequency, KVA, KVAH, K VARH, KVAR, KW, KWH etc.

Technical Data sheet to be furnished by associate agency prior to ordering of Materials

Sl.No	Item	Particulars
	DieselEngine	
1)	Make	
2)	Model:	
3)	No.ofcylinders	
4)	RatedRPM	
5)	Methodof starting	
6)	Aspiration method	
7)	BrakeHorsePower:	

8)	Specific fuel oil consumption (gm/BHP/hr)	
9)	Lube oil recommended	
10)	Lube oil pressure:	
11)	Qty of lube oil required:	
12)	Time required for starting:	
13)	Lube oil sump capacity:	
14)	No. of exhaust pipes required:	
15)	Dia. of exhaust pipes:	
16)	Whether meets CPCB norms of emission:	
17)	Fuel consumption at full load	
18)	Capacity of built-in fuel tank	
19)	Any other data	
	Alternator	
1)	Make:	
2)	Enclosure details	
3)	Full load output in KVA	
4)	Full load output in KW at 0.8 pf	

5)	Designed overload capacity at NTP	
6)	Efficiency at full load	
7)	Class of insulation of rotor	
8)	Class of insulation of stator	
	General	
1)	Name of OEM of DG set	
2)	Model number of DG set	
3)	Overall dimension of DG set with enclosure (LxWxH):	
4)	Overall weight of DG set	
5)	Noise level of DG set at one metre distance from room after acoustic:	
6)	Copy of type test certificate attached or not? (Y/N)	
	Synchronizing panel	
1)	Make:	
2)	Type of mounting: (Floor/wall)	
3)	Overall dimensions: (LxWxH)	

4)	Finish	
	Gensetcontrolpanel	
1)	Make:	
2)	ModelNo:	

A	<p>Bidders are advised to quote prices as per technical specification. However detailed breakup of quoted prices should be provided in Price Format - A uploaded in the prescribed place (Financial Document Required) on online GeM portal. The prices quoted in the prescribed field on GeM portal will be considered for ranking purpose. Total price quoted in Price Format - A must match with the price quoted in GeM portal. Bidders should not include price bid in the technical bid. The Price Formats A, B, C, D and E to be submitted along with financial bid only. If any of the price components disclosed in the technical bid, the bid will summarily be rejected and the bidder will be DISQUALIFIED from further bidding process.</p>
B	<p>The Bidders are advised to quote price of Spare parts, Consumables in the attached format "B" and "C" accordingly and uploaded the same in the prescribed place (Financial Document Required) on online GeM portal. The equipment 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".</p>
C	<p>The three years warranty sought for is OEM/bidder free warranty without any additional cost towards extended warranty to fulfil the tender condition. The charges, if any, claimed by the bidder towards warranty in this regard and included in the product cost in Price Format -A should be mentioned in the price format D also, and uploaded the same in the prescribed place (Financial Document Required). This warranty charges shall not be considered for calculating actual CAMC value to be payable after warranty period. Where the total cost does not include such warranty charges, the bidder shall submit a declaration- "Certify that the Equipment/accessories quoted in the bid is having OEM/bidder free warranty of three years and the total cost quoted in the bid does not include any warranty charges to fulfil the tender condition of three year warranty". This declaration shall be furnished along with the Technical bid in format H. False declaration may lead to rejection of bid. In the case of agents quoting on behalf of their foreign principal, proforma invoice from the OEM (Foreign principal company) indicating the nature of after sale service including warranty condition and commission payable to the Indian agent shall be furnished along with the price bid.</p>

<p>i.</p> <p>ii.</p> <p>iii.</p> <p>D</p> <p>iv.</p> <p>v.</p> <p>vi.</p>	<p>As per the Institutes general policy, the maximum CAMC charges after warranty period will be 5% of the cost of the equipment. However the bidders can quote CAMC charges in the range of 3 to 10 % of the cost of equipment, depending on the nature of equipment to be maintained.</p> <p>The CAMC charges shall be quoted in percentage rate in GeM bid and escalation in CAMC charges shall be allowed at maximum 5% after every three years of CAMC.</p> <p>This CAMC charges at Net Present Value shall be taken into account for arriving the lowest responsive bidder. The actual CAMC value to be payable after warranty period shall be separately worked out based on the "Cost of the equipment for CAMC calculation" and shall be furnished in "Format -E" and uploaded the same in the prescribed place (Financial Document Required).</p> <p>The year wise rate percentage of CAMC quoted in the bid for L1 evaluation should be used for calculating the actual CAMC value.</p> <p>The "cost of the equipment for CAMC calculation" shall not include additional warranty cost (if any), cost towards Installation, Commissioning and Testing (in addition to the original equipment cost of the OEM), cost of transportation, including import customs duty, Agency commission, any specific excluded items from CAMC as per the tender condition and GST included in the product cost quoted.</p> <p>The cost of the equipment for CAMC calculation shall be mandatorily furnished in format D.</p>
<p>E</p>	<p>The warranty and CAMC condition as given above should be applicable for the third party items, if any supplied. The successful bidder shall furnish the agreement executed in this regard with the third parties as and when called for. The genuineness of price quoted for the equipment / accessories are very important and this price shall not be loaded with any other cost. A declaration in this regards shall be furnished along with technical bid in format H</p>
<p>F</p>	<p>The successful bidder shall enter into CAMC 3 (three) months prior to the completion of warranty period. The CAMC will commence after the date of expiry of warranty period from the date specified in the work order and as per the terms and conditions issued in this regard, which will be treated as the first year of CAMC. This tender will form part of the CAMC work order.</p>

Penalty clause:

1. Delay in Delivery:

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, the Purchaser shall, without prejudice to other rights and remedies available to the Purchaser 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 Purchaser may consider termination of the contract .

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:

- I. Imposition of liquidated damages,
- II. Forfeiture of its Performance Security and
- III. Termination of the Contract for default

2. Performance (during Warranty period)

Supplier should ensure uninterrupted service delivery of the equipment or product during the warranty period. In this regard following conditions also may be noted:

- I. In case of failure of equipment or its components, breakdown call has to be attended within 48 hours of intimation.
- II. The defect should be rectified within two days after the call is attended, failing which replacement or standby equipment should be provided for uninterrupted services.
- III. In case of non-adherence to clause (a) or (b) above, downtime penalty will be realised a sum equivalent either the repairing charges met by the Institute to set right the equipment or 0.5 percent per day of cost of the equipment, whichever is higher, from the date of report of breakdown by way of deductions from SD/Performance Bank Guarantee.
- IV. The time spent on the repair work will be added to the warranty period of the equipment.

3. Performance (during CMC/AMC period):

- i. Uptime means 95 percent of total days in a year during which the equipment remains functional.
 - II. Down time means any shortage in achieving the up-time
 - III. Down time penalty will be levied as per following terms and condition:
 - IV. In the case of CMC, it shall be the responsibility of the service provider to set right the equipment and avoid downtime. Down time penalty will be imposed @ 0.5 percent of contract value per day from the service provider.
 - V. In case auxiliary units/components attached to the main equipment undergoes failure and the main equipment provides uninterrupted services, down time penalty will be imposed @ 0.1 percent of contract value per day per auxiliary unit from the service provider.
 - VI. Service provider should ensure rectification of defect of equipment within a reasonable period in the case of Labour Annual Maintenance Contract. In case break down is not attended within 48 hours of intimation, down time penalty will be imposed @ 0.5 percent per day of contract value from the service provider.

G

Qualification criteria

The bidder must be a manufacturer or their authorized agents having a place of business in any state of India are eligible to participate in this bid. The bidders should submit "Manufacturer's Authorization Form" for each items quoted and shall be submitted along with technical bid, as per the format enclosed in the bid document (**Format "F"**).

MII declaration should be furnished in the attached format along with bid document "**Format G**". The declaration shall be certified by the statutory auditor or cost auditor.

H

I

Bidders may please be read as uptime warranty as 95 % instead of 98 % as per bid terms and conditions.

J	SCTIMST reserves the right to ask for a free demonstration of the quoted equipment/ items after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at a site (in case of non-portable and heavy equipment) for evaluating the technical compatibility as per the bidding document specifications, professionalism and quality of work of the bidder for technically qualifying for opening the Price Bid. SCTIMST reserves the right to accept/ reject the bid based on the product/ site evaluation as stated above.
K	Integrity Pact Agreement will form part and parcel of this tender. It is mandatory to enclose the Integrity Pact Agreement along with the techno-commercial bid. Independent External Monitors: 1. Sri. Prahlad Kumar Sinha, IP & TAFS (Rtd.) Ph. No. 09423677066 E-mail pekay66@gmail.com 2. Dr. Ved Prakash, ITS (Rtd.) Ph.No. 9810546996 E-mail ved60prakash@gmail.com
L	List of documents to be attached along with bid. Technical Bid - Format F, G and H Price bid - Format A, B, C, D and E
M	On-site installation required.
N	For all disputes arising out of this contract the legal jurisdiction will be Thiruvananthapuram.
O	Payment Term 60% payment will be paid on supply, 20% payment for completion of physical installation along with submission of "Installation Report" to be issued by DCE and 20% payment on testing & commissioning as certified by DCE.

10. **Buyer Added Bid Specific ATC**

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

11. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

12. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

13. **Generic**

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope

of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

14. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of

DIRECTOR, SCTIMST

A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

15. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

DIRECTOR, SCTIMST

payable at

THIRUVANANTHAPURAM

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

16. **Generic**

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 Buyer has placed the Purchase Order on the Seller.

17. **Generic**

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.

3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

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 within 4 days of bid publication on GeM. 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.

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

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./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 कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---