

INDIAN INSTITUTE OF MANAGEMENT MUMBAI

NOTICE INVITING TENDER (NIT)

Non-Comprehensive Annual Maintenance Contract for LT & HT Switchgears including Transformers at Substation at IIM Mumbai.

Name of Work	Non-Comprehensive Annual Maintenance Contract (AMC) for LT & HT Switchgears including Transformers at Substation
Estimated Cost Put to Tender	Rs. 3,77,000/- (Rupees Three Lakhs Seventy-Seven Thousand Only inclusive of GST)
Earnest Money Deposit (EMD)	Rs. 7,540/- (2% of Estimated Cost) *Note: Complete exemption for valid MSME / NSIC registered firms upon submission of valid registration certificate.
Performance Guarantee	3% of the tendered value within 7 days of the letter of intent.
Period of Contract	One (1) Year (Extendable up to 3 years based on satisfactory performance)
Bidding System	Two-Bid System (Technical Bid and Financial/Price Bid)
Minimum Validity of Bid	90 days from the last date of submission of technical bid
Mode of Submission	Online e-Tendering portal / Sealed Bids as designated by the competent authority

1. SCOPE OF WORK, TESTING & MANDATORY REPORTS

The scope involves non-comprehensive routine preventative maintenance, periodic testing, breakdown assistance, and generation of certified compliance reports for the Substation equipment. The contractor must provide all specialized tools, calibrated testing meters, and

safety gear. **The detailed scope of the work is mentioned in the financial schedule (BOQ) itself along with the Terms & Conditions attached.**

2. BIDDER ELIGIBILITY & EVALUATION CRITERIA

A. Statutory Registrations & Licensing

- **Electrical Contractor License:** The bidder must possess a valid Electrical Contractor License issued by the PWD/State Government.
- **Taxation and Welfare Registrations:** Copy of valid GSTIN Registration, EPF Registration, ESIC Registration, and Permanent Account Number (PAN).

B. Work Experience (Last 7 Years)

Bidders must have successfully completed similar works during the last 7 years ending the day prior to the last date of bid submission. The completed work values must conform to any one of the following scaling thresholds:

- **Three similar completed works**, each costing not less than Rs. 1,50,800/- (40% of estimated cost).
- **Two similar completed works**, each costing not less than Rs. 2,26,200/- (60% of estimated cost).
- **One similar completed work**, costing not less than Rs. 3,01,600/- (80% of estimated cost).

Definition of 'Similar Work':

Annual Maintenance Contract (Comprehensive or Non-Comprehensive) OR Breakdown Repair & Testing of Substation Equipment including HT Switchgears (VCB), Transformers, and LT Switchgear Panels executed within Central/State Government departments, Autonomous Bodies, Public Sector Undertakings (PSUs), or State/Central Academic Institutions and private companies.

C. Financial Parameters

- **Annual Financial Turnover:** Average annual financial turnover on electrical maintenance works must be at least Rs. 1,13,100/- (30% of the estimated cost) during the last three consecutive financial years, duly certified by a registered Chartered Accountant.
- **Profit/Loss Margins:** The bidder must not have sustained any net financial losses in more than two (2) years during the immediate last five (5) consecutive financial years.
- **Solvency / Net Worth Profile:** The bidder must furnish a valid Bankers' Solvency Certificate or a verified Net Worth Certificate from a scheduled commercial bank for a value not less than Rs. 1,50,800/- (40% of the estimated cost).

3. EARNEST MONEY DEPOSIT (EMD) EXEMPTION FOR MSME / NSIC

As per the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order issued by the Ministry of Micro, Small and Medium Enterprises (MSME), the following protocols apply regarding Earnest Money Deposit (EMD):

- **Exemption Provision:** Micro and Small Enterprises (MSEs) registered with the NSIC, District Industries Centres, or possessing a valid Udyam Registration Certificate are fully exempted from paying the Earnest Money Deposit (EMD).
- **Verification Framework:** To avail of this exemption, the bidder must upload a clear, valid copy of their registration certificate in the technical bid envelope. The registration must explicitly cover the service category or nature of work specified in this tender.
- **Bid Securing Declaration:** Exempted bidders are mandatory required to submit a signed 'Bid Securing Declaration' accepting that if they withdraw or modify their bids during the validity window, they will be suspended from bidding for any future contracts within this Organization for a period specified by the competent authority.
- **Bank Account Details** – Account Name – IIM Mumbai Main Account
Account Number – 10007680096
IFSC Code – SBIN0009055
Bank Name – State Bank of India

4. CRITICAL REJECTION & DISQUALIFICATION CLAUSES

- **Joint Ventures / Consortiums:** Joint Ventures (JV) or bidding consortiums are strictly prohibited from participating in this tender execution. The bid must be submitted by a single unified entity.
- **Subletting of Contract:** The successful contractor shall not sub-let or assign the contract, nor transfer any fraction of the operations on a back-to-back basis. A formal declaration affidavit to this effect must be enclosed in the technical envelope.
- **Blacklisting History:** Bidders currently blacklisted, suspended, or debarred by CPWD, State/Central Government Ministries, or any other Autonomous Body will be disqualified instantly. An affidavit affirming clean standing is mandatory.

Terms and Conditions

- 1. Annual Preventive Maintenance :** Complete testing, servicing and preventing maintenance of HT & LT switchgear and including Transformers shall be carried out once during the AMC period.
- 2. Thermography:** Thermography of HT/LT panels and critical electrical connections shall be carried out once a year.
- 3. Quarterly Inspection:** Quarterly site visits shall be carried out for visual inspection, operational checking and identification of abnormalities.
- 4. LT Release Testing:** LT ACB/MCCB release/protection testing shall be carried out using a suitable OEM secondary injection test kit.
- 5. HT Relay Testing:** HT protection relay and associated tripping circuit testing shall be carried out using a suitable primary injection test kit/system, wherever applicable.
- 6. Breakdown Support:** Unlimited breakdown calls related to electrical switchgear shall be attended by the AMC service provider during the AMC period.
- 7. Service Reports:** Service/testing reports shall be submitted after each scheduled visit and testing activity, including observations and recommendations.
- 8. Testing Equipment:** All testing shall be carried out using calibrated and suitable testing instruments.
- 9. Spares & Materials:** Replacement of defective components, spare parts, major repairs and modifications shall be paid separately after client approval.
- 10. Shutdown & Safety:** Required shutdowns, isolation and work permits shall be provided by the client. All work shall be carried out as per applicable safety procedures.
- 11.** Quarterly payments will be made after satisfactory services.
- 12.** Supply of transformer oil if required shall be paid extra.
- 13.** Agency should have registered office in Mumbai/Mumbai Suburban/Navi Mumbai/Thane.
- 14.** The Agency should be PWD licensed contractor.
- 15.** The agency should have OEM secondary injection test kit.

Contractor

Executive Engineer

FINANCIAL SCHEDULE

Name of Work: Non-Comprehensive AMC for LT & HT panel switchgears including transformers at substation at IIM Mumbai.

Sr. No.	Item	Qty	Unit	Rate	Amount
01	<u>HT Panel</u> Make: ABB Rating:22 kV Type: VD4/W 36.12.32 Yearly Schedule: <u>1)Panel Servicing Work</u> Panel Cleaning Tightening of all control and power connection Control logic scheme check. Verification of Auxiliary supply Check Panel Earthing connection Checking of interlocking of all breakers <u>2)Protection Relay Test</u> Feeder Protection OC & E/F Relay Auxiliary Relay Test Visual and Mechanical Inspection Electrical Testing Pickup contacts check Timing tests Instantaneous pickup test <u>3)VCB Servicing</u> Cleaning of Breaker & creadle section Lubrication of mechanism Operational trials for breaker Checking Rack in & Rack out operations <u>4)VCB Breaker Testing</u> Insulation Resistance test Contact Resistance Test Simulation check between Transformer and RMU Breaker Timing Test	03	Nos		

02	<u>Transformer</u> Make: Voltamp Rating : 1600 KVA, 22 kV/433 V Type : Oil Cooled Yearly Schedule: <u>1)Oil Filtration work</u> Oil Filtration Before & After BDV Test <u>2)Testing And Maintenance Work</u> Transformer Cleaning Transformer Testing Ratio Testing Magnetic Balance Test Magnetising Current IR Values Checks Vector Group Checks Winding temperature control system Check Power Connections Check (HT & LT terminals) <u>3)Check RTCC panel operation -</u> Scope of Work Visual inspection and panel cleaning and servicing. Check and tighten all electrical/control wiring. Check MCBs. Fuses, relays, contractors, switches, and indication lamps. Check control supply and earthing. Verify raise/Lower and Auto/Manual operation. Check tap position indication and AVR settings. Test local/remote operation and interlocks. Check alarms, indications and SCADA communication, if applicable. Functional testing and final restoration. Record observations, test results and recommendations.	02	Nos		
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03	<u>LT Breaker (ACB)</u> Make: L&T Rating: up to 2500 Amp <u>1)ACB Servicing</u> Cleaning of Breaker & creadle section Lubrication of mechanism Operational trials for breaker Checking Rack in & Rack out operations <u>2)ACB Breaker Testing</u> Insulation Resistance test Primary Injection Test on release	13	Nos		
04	<u>Earth Pit Testing</u> 1) Check the condition of Earth Pit 2) "Measurement of Earth Resistance" 3) Reconnect & Check the tightness of Connection	15	Nos		
05	<u>Thermography Test</u> Real Image and Thermal image of the hot spot in the LT switch gear will be recorded Submit the hot spot record	01	Job		
06	<u>APFC Panel</u> APFC panel test Rating: up to 450kVAR Panel Cleaning 1)APFC relay check 2)Meter Check 3)Control wiring and tightness check 4)All stage operation test 5)Capacitor Test 6)Control logic test 7)Check audio and manual mode operation	02	Nos		
07	RMU Yearly schedule Make: Lucy Rating:33 kV Type:3 breaker 1)Cleaning and servicing of RMU, 2)Lubrication of mechanism, 3)Checking of door operating mechanism, 4)tightening of all control and power connections, 5)checking of interlocking of all breakers, 6)control logic scheme check, 7)Verification of auxiliary supply, 8)Testing of RMU, 9)Breaker tripping mechanism, 10)Current transformer and potential transformer test 11)Insulation resistance test 12)Relays test	01	Nos		

	13)Simulation check between transformer and RMU				
	Total				
	Add GST @ 18%				
	Grand Total:				

Contractor

Executive Engineer