



Basic Details

Organisation Chain	All India Institute of Ayurveda		
Tender Reference Number	J-50/10/2026-AIIAGoa		
Tender ID	2026_AIIA_847248_1		
Tender Type	Open Tender	Form of contract	Supply
Tender Category	Goods	No. of Covers	2
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No		

Payment Instruments

Offline	S.No	Instrument Type
	1	Demand Draft
	2	FDR
	3	Bank Guarantee
	4	As Per Tender Document

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Technical Bid
2	Finance	.xls	Financial Bid

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	NA	Fee Payable At	NA
Tender Fee Exemption Allowed	NA		

EMD Fee Details

EMD Amount in ₹	1,80,000	EMD Exemption Allowed	Yes
EMD Fee Type	percentage	EMD Percentage	3.0%
EMD Payable To	Director, All India Institute of Ayurveda, Delhi	EMD Payable At	Delhi

Work /Item(s)

Title	Supply, Installation, Testing and Commissioning (SITC) of Main LT Panel, LT Cabling, Earthing System and Associated Electrical Distribution Works for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa				
Work Description	Supply, Installation, Testing and Commissioning (SITC) of Main LT Panel, LT Cabling, Earthing System and Associated Electrical Distribution Works for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa				
Pre Qualification Details	Please refer Tender documents.				
Tender Value in ₹	60,00,000	Product Category	Electrical Work/ Equipment	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	45
Location	All India Institute of Ayurveda, Goa	Pincode	403513	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	All India Institute of Ayurveda, Goa

Critical Dates

Publish Date	06-Aug-2026 04:00 PM	Bid Opening Date	18-Aug-2026 03:30 PM
Document Download / Sale Start Date	07-Aug-2026 10:00 AM	Document Download / Sale End Date	18-Aug-2026 03:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	08-Aug-2026 11:00 AM	Bid Submission End Date	18-Aug-2026 03:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
			1	

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ePublishing System, Government of India

	1	Tendernotice_1.pdf	Supply, Installation, Testing and Commissioning of Main LT Panel, LT Cabling, Earthing System and Associated Electrical Distribution Works for the CT Scan Machine and Other associated Electrical Loads at AIIA Goa	3945.34	
Work Item Documents					
	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	LT Panel Tender Document Goa.pdf	Supply, Installation, Testing and Commissioning (SITC) of Main LT Panel, LT Cabling, Earthing System and Associated Electrical Distribution Works for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa	3945.34

Tender Inviting Authority

Name	Store Incharge
Address	ALL INDIA INSTITUTE OF AYURVEDA GOA

Tender Creator Details

Created By	MOHIT KAUSHIK
Designation	Store Keeper
Created Date	05-Aug-2026 04:37 PM



**ALL INDIA INSTITUTE OF AYURVEDA(AIIA) GOA
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**“Procurement, Supply, Installation, Testing and Commissioning
(SITC) of Main LT Panel, LT Cabling, Earthing System and
Associated Electrical Distribution Works for the CT Scan
Machine and Other Associated Electrical Loads at AIIA Goa.”**

TENDER NO: J-50/10/2026-AIIAGoa

Chapter-I

All India Institute of Ayurveda (AIIA) Notice Inviting Tender

The Director, **All India Institute of Ayurveda (AIIA), New Delhi**, invites bids under the **Two-Bid System** (Technical Bid and Financial Bid) from reputed and experienced original manufacturers/authorized distributors/agencies for the following work:

2. Description of the Item(s)

Item No.	Name & Description	Quantity	Tentative Cost (₹)
1	Procurement and Execution of Electrical Distribution Works (Main LT Panel & Cabling) for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa	As per Annexure-I	₹60,00,000/-

SCHEDULE OF TENDER

Published Date	06.07.2026 at 04.00 PM
Bid Document Download	07.08.2026 at 10.00 AM
Bid Submission Start Date	08.08.2026 at 11.00 AM
Bid Submission End Date	18.08.2026 at 03.00 PM
Bid Opening Date	18.08.2026 at 03.30 PM

All India Institute of Ayurveda, Goa invites sealed tender for “**Procurement and Execution of Electrical Distribution Works (Main LT Panel & Cabling) for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa**” as per details and specifications shown in the **Annexure-I** on the following terms & conditions:

TERMS & CONDITIONS:

- The tender document may be downloaded from the Central Public Procurement Portal (CPPP) at <https://eprocure.gov.in/eprocure/app> and the AIIA Goa website www.aiiagoa.org (for reference only) as per the schedule mentioned in the Critical Date Sheet.
- The tender is being published on the Central Public Procurement Portal (CPPP) for wider publicity. The bids shall be submitted in physical form (sealed covers) as specified in this tender document.
- The bidder shall submit the **Technical Bid** and **Financial Bid** in separate sealed envelopes, duly superscribed, and enclose both envelopes in a single outer sealed envelope. The outer envelope shall be superscribed with the **Tender ID, Tender Name, and the name of the bidder** and shall be submitted to the **Office of the Central Store, All India Institute of Ayurveda (AIIA), Goa**, on or before the bid submission deadline mentioned in the Critical Date Sheet. The Technical Bid shall contain all eligibility documents, technical documents, signed tender document, declarations, and annexures, while the Financial Bid shall contain only the duly filled and signed Price Bid.
- Late Bids:** Bids received after the prescribed date and time shall not be accepted and shall be returned unopened.
- Bidders are advised to carefully read the tender document and ensure that all required

- documents are enclosed with the bid before submission.
6. The bidder shall not modify or tamper with the tender document or the prescribed formats issued by the Institute. Any such modification shall render the bid liable for rejection. The bid shall remain valid for **180 days** from the date of opening of the Technical Bid.
 7. In the event of withdrawal or modification of the bid during the period of bid validity, the bid shall be liable for rejection and action shall be taken in accordance with the applicable provisions of the General Financial Rules (GFR), 2017 and the tender conditions.
 8. **Tender Fee:** Exempted.
 9. **Earnest Money Deposit (EMD):** The bidder shall furnish an **EMD of ₹1,80,000/- (3% of the estimated contract value of ₹60,00,000/-)** along with the bid.
 10. **Performance Bank Guarantee (PBG):** The successful bidder shall furnish a **Performance Bank Guarantee (PBG) equivalent to 5% of the total contract value** within the stipulated time as specified in the Letter of Award (LoA)/Work Order.
 11. The Director, All India Institute of Ayurveda, Goa reserves the right to accept or reject any or all bids, or to cancel the tender process at any stage without assigning any reason, in accordance with the provisions of GFR-2017 and other applicable Government procurement guidelines.
 12. No charges towards transportation within the campus, unloading, loading, installation, dismantling, uprooting, or any incidental activity shall be paid separately unless specifically provided in the tender.
 13. The bidder shall ensure that all documents submitted with the bid are duly signed and stamped by the authorized signatory. Unsigned or incomplete bids are liable to be rejected.
 14. Clarification on bid documents: Clarification on bid document may be sought by the bidders as per prescribed schedule over email address store-keeper5@aiia.gov.in.
 15. Amendments: Any amendments/corrigendum related to bid document, for any reason whether in its own initiative or in response to clarification requested by bidders, will be published on website of AIIA and on CPPP only. Bidders should check these amendments regularly. AIIA shall not be responsible to notify such amendments/corrigendum to individual bidders.

3. Quality and Cost Based Selection (QCBS):

QCBS will be used for Procurement of the instant tender enquiry, since quality of service is of prime concern.

- (i) Only those responsive proposals that have achieved at least minimum specified qualifying score (i.e. 70) in quality of technical proposal are considered further.
- (ii) After opening and scoring, the financial proposals of responsive technically qualified bidders, a final combined score is arrived at by giving predefined relative weightages for the score of quality of the technical proposal and the score of financial proposal.
- (iii) The minimum qualifying score for the quality of technical proposal and also the relative weightages to be given to the quality and cost (70:30). The proposal with the highest weighted combined score (quality and cost) shall be selected.

4. Minimum Eligibility Criteria

Sl. No.	Minimum Eligibility Criteria	Document Required
1	The bidder shall be a legally registered entity in India (Proprietorship/Partnership/LLP/Company).	Registration Certificate
2	The bidder shall possess a valid Electrical Contractor Licence issued by the competent Government Authority.	Valid Electrical Contractor Licence
3	The bidder shall have successfully completed similar electrical works during the last 3 years, comprising either Four works.	Work Orders and Completion Certificates
4	The bidder shall have an average annual turnover of at least ₹1 Crore during the last three financial years.	CA Certificate/Audited Financial Statements
5	The bidder shall have valid GST Registration and PAN.	GST Registration & PAN
6	The bidder shall not have been blacklisted or debarred by any Central/State Government Department, PSU, or Autonomous Body as on the bid submission date.	Self-Declaration on Letterhead
7	The bidder shall submit an undertaking confirming compliance with all technical specifications, warranty obligations, and completion schedule mentioned in the tender document.	Undertaking on Bidder's Letterhead

5. QCBS Criteria for Technical Evaluation

S. No.	Evaluation Parameter	Maximum Marks	Evaluation Methodology
1	Years of Experience	20 Marks	i. More than 6 years – 20 Marks ii. More than 4 years up to 6 years – 15 Marks iii. More than 3 years up to 4 years – 10 Marks iv. Up to 3 years – 5 Marks
2	Experience of Similar Works in Central Stores of Government Departments, PSUs, and Autonomous Bodies of Central/State Government (Total different clients served during last 3 FY)	20 Marks	i. More than 5 similar works – 20 Marks ii. 5 similar works – 15 Marks iii. 4 similar works – 10 Marks iv. Up to 3 similar works – 0 Marks
3	Average Annual Turnover from Similar Business during the Last 3 (Three) Financial Years	20 Marks	i. More than Rs. 5 Crore – 20 Marks ii. Rs. 3 Crore to Rs. 5 Crore – 15 Marks iii. Rs. 1 crore to Rs. 3 Crore – 10 Marks iv. Below Rs. 1 Crore – 0 Marks
4	Maximum Value of a Single	10 Marks	i. More than Rs. 2 Crore – 10

	Similar Contract Executed during the Last Five Financial Years		Marks ii. Rs. 50 Lakh to Rs. 2 Crore – 05 Marks iii. Up to Rs. 50 Lakh – 0 Marks
	Total	70 Marks	

Opening and Evaluation of Financial Bid:

Financial Evaluation (30 Marks)

The Financial Score (FS) shall be calculated as:

$$FS = 30 \times (FM / F)$$

Where:

- **FM** = Lowest Financial Bid
- **F** = Financial Bid under consideration

The bidder quoting the lowest price shall receive **30 marks**, while the remaining bidders shall receive proportionately lower marks.

Final Combined Score

$$\text{Final Score} = \text{Technical Score (70)} + \text{Financial Score (30)}$$

The bidder securing the **highest Combined Score out of 100** shall be ranked **Rank-1** and recommended for award of the contract.

5) Illustrative Example:

- Suppose the Financial Bids of three bidders, namely **A, B and C**, are opened.
- The Financial Scores of A, B and C, as explained in Para 5(ii) above, work out to be **25.50, 30.00 and 27.00** respectively.
- The Technical Scores of A, B and C (out of 70) are **58, 62 and 60** respectively.
- The Combined Score of the three bidders shall be calculated as follows:

Bidder	Technical Score (70)	Financial Score (30)	Combined Score (100)	Rank
A	58.00	25.50	83.50	Rank-3
B	62.00	30.00	92.00	Rank-1
C	60.00	27.00	87.00	Rank-2

Accordingly, **Bidder B**, having secured the highest Combined Score, shall be declared **Rank-1** and may be recommended for award of the contract, subject to approval of the Competent Authority.

6. Scope of work/ Technical specification:

1. The following Quantities are based on the tender drawings, and it may vary with final drawings and Client's / Architect's requirements.
2. Electrical cables , Cable trays etc is considered for the Building, Any change in the requirement of the Client will result into variation of the quantities and the tenderer shall consider the same while quoting for this tender.
3. Being a manufacturing project, the tenderer shall be prepared for the variation in the quantities of the BOQ hereunder, considering the variation in the requirement of the clients and related consultants. The tenderer shall absorb any increase or decrease in the final quantities being executed under the scope of this tender.
4. All rates should be quoted including RO The rates quoted should exclude GST . GST will be paid extra as applicable
5. Deviation if any should be mentioned
6. The quantities given are approximate The contractor shall measure the cables trays and other quantities required and procurement order shall be placed accordingly. The quantities shall be confirmed before start of work.

SR NO	Description of items	Unit	Qty
A	PANELS		
	<u>Important Notes:</u>		
	1. The BOQ shall be read inconjunction with general notes, specification and single line diagram (attached SLD/01) incase of any discrepancy between specification, BOQ and SLD the same shall be brought in the notice of the client/ consultant before quoting the rates otherwise stringent condition shall be deemed to have be considered 2. Fault current wherever mentioned shall be Ics value Ics= 100% Icu 3. All MCCB shall be provided with door interlocked rotary handle ON/TRIP/OFF position indicator 4. All feeder doors shall have pad locking arrangement 5. All TP feeders shall have solid isolable neutral link. 6. All power contactors including NIC shall be of AC3 duty. 7. All outgoing terminals (power and control) shall be brought upto cable alley 10% extra terminals shall be provided. 8. 10% extra indicating lamp in loose shall be supplied along with panel 9. All CT, PT shall be Nylon Casing Rectangular Type 10. All meters are digital type. 11. Panel shall be powder coated of approved shade with minimum 60 micron thickness. 12. All switchgear MCB/MCCB's in panel shall be of one similar make 13. Size of Ammeter for incomer also, 96mm X 96mm flush mounted with shroulder terminal shall be used in the panel. 14. Bus bar chamber shall be kept at top of the all panels. 15. All bus bar shall be insulated with coloured PVC sleeve i.e RYB, BK as per colour code. 16. Internal wiring of panel shall be with size 2.5sqmm flexible copper condutor for CT circuit and control wiring with 1.5 sqmm.		

	17. All indicating light shall be LED type. 18. All the makes shall be as per Client approved make list only		
1	Design, manufacture, supply, installation, testing and commissioning of following MV panels suitable for 415V, 3 phase, 4 wire, 50 Hz power distribution system. The panel should be indoor free standing floor mounting, steel metal clad, cubical, dead front, dust and vermin proof type compartmentalised design fabricated out of 14 swg CRCA sheet steel complete with colour coded, heat shrinkable PVC insulated, aluminium mini bus bar and separated earth bus bar of adequate cross section through out the length of the panel. the incoming and outgoing feeders shall be accommodated in full segregated ,modular multitier arrangement with adequated size and distinct cable alley bus bar alley/chamber. the panel shall be completed with name plate earthing, numbering danger plate etc.as required as per specification and drawings. the panel shall withstand with fault level of as indicated elsewhere or shown in single line diagram consisting of the following switchgear	Each	1
	1250A Aluminium Busbar, 50kA, 415V, 3Ph, 4W	Set	1
	1250A, 4P, 50kA ACB with Micrologic Release	No	1
	Multifunction Meter (MFM) for Incomer	No	1
	CT Set for Incomer Metering & Protection	Set	1
	RYB Indication Lamps	Set	1
2	Design, manufacture, supply, installation, testing and commissioning of following MV panels suitable for 415V, 3 phase, 4 wire, 50 Hz power distribution system. The panel should be indoor free standing floor mounting, steel metal clad, cubical, dead front, dust and vermin proof type compartmentalised design fabricated out of 14 swg CRCA sheet steel complete with colour coded, heat shrinkable PVC insulated, aluminium mini bus bar and separated earth bus bar of adequate cross section through out the length of the panel. the incoming and outgoing feeders shall be accommodated in full segregated ,modular multitier arrangement with adequated size and distinct cable alley bus bar alley/chamber. the panel shall be completed with name plate earthing, numbering danger plate etc.as required as per specification and drawings. the panel shall withstand with fault level of as indicated elsewhere or shown in single line diagram consisting of the following switchgear	Each	1
	1000A Aluminium Busbar, 50kA, 415V, 3Ph, 4W	Set	1
	Type 1+2 Surge arrestor	No	1
	1000A, 4P, 50kA ACB Incomer with Micrologic Release	No	1
	Multifunction Meter (MFM) for Incomer	No	1
	CT Set for Metering & Protection	Set	1
	250A, 4P MCCB Outgoing Feeder, 36kA	Nos	2
	400A, 4P MCCB Outgoing Feeder, 36kA	Nos	2
	Space provision for 400A, 4P MCCB Outgoing Feeder(empty feeder)	nos	2
	Space provision for 100A, 4P MCCB Outgoing Feeder(empty feeder)	No	1
	RYB Indication Lamps	Set	1
	ON/OFF/TRIP Indications	Set	1

3	Providing, fabricating, modifying, and extending the existing Main LT Panel busbar arrangement to facilitate termination and connection of power cables for the proposed new LT Panel. The scope shall include detailed site assessment, shutdown coordination, dismantling of existing busbar sections as required, fabrication and installation of suitably rated copper/aluminium busbar extensions, busbar supports, insulation sleeves, heat-shrinkable insulation, jointing hardware, high-tensile nuts, bolts, washers, shrouds, insulating barriers, and all associated accessories. The work shall include drilling, punching, alignment, busbar jointing, tightening with calibrated torque, continuity testing, insulation resistance testing, phase identification, reconnection, commissioning, and restoration of the panel to operational condition. The rate shall include all materials, consumables, tools, testing equipment, labour, supervision, transportation, shutdown assistance, safety precautions, and any incidental works required for complete and satisfactory execution of the modification works.	JOB	1
	Scope Includes: Modification of existing LT panel busbars. Provision of busbar extension pieces of matching rating and fault level. Busbar support insulators and mounting arrangements. Jointing hardware and insulation materials. Cable termination arrangement for new proposed panel feeder. Testing, commissioning, and restoration of supply. Labour, tools, tackles, and consumables complete.		
B	<u>LT Cables, Terminations</u>		
1	Supply & Laying of 3.5 core armoured PVC insulated, PVC/XLPE sheathed copper conductor cable of 1.1 KV grade with ISI mark conforming to IS: 1554(Part 1) , IS:7098 (Part ii) with latest amendments of following size.		
a	3.5 core 300 sq.mm	Meter	1140
2	Supplying and making cable end terminations with brass compression (double compression) gland and aluminum lugs for following sizes of 3.5 Core PVC insulated PVC sheathed/XLPEcopper conductor cable of 1.1 KV grade, complete as required.		
a	3.5 core 300 sq.mm	Each	16
3	Excavation For trench as per Cable Trench Drawing provided by the Engineer-Incharge, and cushioning with screened sand bed of 20mm thick , protective covering with bricks placed lengthwise on top of cable all over the run and backfilling the excavated earth without stones or hard material and making the surface proper with 15 cm crown on the top complete as required.	Rmt	250
C	<u>EARTHING</u>		

1	Supply, installation, testing and commissioning (SITC) of Maintenance-Free Chemical Earthing Electrode complete with 3.0 m long copper-bonded steel/GI electrode, maintenance-free conductive backfill compound, earth inspection chamber with heavy-duty cover, test link, identification tag, excavation, backfilling, interconnection to earth grid using specified GI/Copper strip, all clamps, connectors, accessories, testing and commissioning, complete in all respects as per IS 3043 (latest edition), IEC standards, approved drawings and the Engineer-in-Charge's instructions.	Each	2
2	Providing and fixing 50 mm x 6 mm GI strip on surface or in recess for connections etc. as required	Meter	200
3	Providing and fixing 25 mm x 3 mm GI strip on surface or in recess for connections etc. as required	Meter	80
D	<u>Cable Trays</u>		
1	Supply and fixing of Perforated Cable tray with horizontal & vertical bends, reducers, Tee's, cross over, suitable supports and brackets and other accessories as required confirming to IEC-61537. The Tray shall be galvanized for corrosion protection confirming to DIN EN 10346 / ISO 1461. The trays should be tested for a safe working load of 150 Kgs with a span distance of 1.5 meters and the deflection should be within the limits as per standard. The safety factor shall be 1.7 times of the safe working load..		
a	300mm width x 100mm depth	Metre	25

6.1 Approved Make List

All materials and equipment supplied must strictly be of the following approved makes as specified in

the BOQ, or an equivalent make conforming to the latest applicable IS/IEC Standards, subject to prior

technical approval by the Engineer-in-Charge before procurement. Additionally, all equipment shall

conform to the latest applicable IS/IEC Standards

Sl. No.	Material / Equipment	Approved Makes
1	Main LT Panel / Distribution Panels	CPRI Approved
2	ACB	Schneider Electric, Siemens, ABB, L&T
3	MCCB / MPCB	Schneider Electric, Siemens, ABB, L&T
4	MCB / RCBO / RCCB / Isolators	Schneider Electric, Siemens, ABB, Legrand, Hager
5	Contactors / Overload Relays	Schneider Electric, Siemens, ABB, L&T
6	Changeover Switches	Schneider Electric, ABB, Siemens, Socomec
7	Busbars	L&T, Hindalco, Jindal Aluminium, National Aluminium (NALCO)
8	Multifunction Energy Meter	Schneider Electric, Secure, Siemens, ABB
9	Ammeter, Voltmeter & Selector Switches	Schneider Electric, L&T, AE, Rishabh
10	Current Transformers (CTs)	Kappa, AE, Schneider Electric, L&T
11	Indicating Lamps & Push Buttons	Schneider Electric, Siemens, L&T, Teknic
12	Copper Flexible Control Wires	RR Kabel, Polycab, KEI, Finolex

13	Power Cables (XLPE/PVC)	Polycab, KEI, RR Kabel, Finolex, Havells
14	Cable Glands	Comet, Dowells, Jainson
15	Cable Lugs	Dowells, Comet, Jainson
16	Heat Shrink Terminations	Raychem (TE Connectivity), 3M
17	Cable Trays & Accessories	Slotco, Indiana, MP Husky, Profab
18	GI Supports / Structural Steel	Jindal, Tata Steel, SAIL
19	Maintenance-Free Chemical Earthing Electrodes	EarthPlus, Nimbus, Axis Electrical Components, True Power Earthings, JMV LPS
20	Earthing Compound	Manufacturer's Standard Compound compatible with the approved electrode system
21	Copper Strip / GI Strip	Hindalco, Jindal, NALCO, SAIL
22	Earth Pit Chamber	Sintex, Supreme, EarthPlus, JMV
23	Fasteners	Hilti, Fischer, Unbrako
24	Labels & Engraved Name Plates	Traffolyte/Gravoply by approved manufacturer
25	Cable Identification Tags	Brady, HellermannTyton, Phoenix Contact
26	Hardware & Accessories	Hilti, Fischer, Unbrako

General Notes

1. All equipment shall conform to the latest applicable IS/IEC Standards.
2. The contractor shall procure all materials from one approved manufacturer for each category.
3. Equivalent makes may be accepted only with prior written approval of the Engineer-in-Charge/Consultant.
4. The panel builder shall be having CPRI approval for similar panels
5. All materials shall be new, unused, and supplied with manufacturer's test certificates and warranty.
6. Switchgear within a panel shall be of one single make to ensure compatibility and coordination.

6.2 Maintenance-Free Chemical Earthing System Specification (As per IS 3043)

1. The complete earthing system shall be designed, manufactured, tested, supplied, installed, and commissioned in accordance with the latest edition of **IS 3043**, applicable **IEC Standards**, CEA Regulations, and other statutory requirements.
2. The earthing electrode shall be a **maintenance-free chemical earthing electrode** comprising either:
 - Copper bonded steel electrode with minimum **99.9% pure copper bonding**, or
 - GI pipe electrode, as specified in the BOQ.
3. The electrode dimensions shall be:
 - Copper Bonded Electrode: Minimum **17.2 mm diameter**
 - GI Pipe Electrode: Minimum **80 mm outer diameter**
 - Electrode Length: Minimum **3.0 metres**
4. The copper bonding thickness of copper-bonded electrodes shall be **not less than 250 microns**.
5. The electrode shall be factory-manufactured and installed with a **maintenance-free conductive crystalline backfill compound** capable of maintaining low earth resistance and retaining moisture throughout its service life.
6. Use of **charcoal, salt, coke, or any conventional backfill material** shall not be permitted.
7. The earth resistance of each electrode shall not exceed:
 - **1 Ohm** for transformer neutral, DG neutral, HT equipment, and lightning protection system.
 - **2 Ohms** for LT electrical installations.
 - The overall earthing grid shall comply with the values prescribed in **IS 3043**.

8. Earth conductors shall be as specified in the BOQ and drawings, generally comprising:
 - **25 × 3 mm Copper Strip**, or
 - **50 × 6 mm GI Strip**.
9. Underground earth conductors shall be laid at a minimum depth of **600 mm below finished ground level**, unless otherwise approved.
10. All earth conductor joints shall be made using **exothermic welding** or approved heavy-duty tinned copper/brass clamps. All bolted joints shall be adequately protected against corrosion.
11. Each earthing electrode shall be provided with a **minimum 300 mm × 300 mm × 300 mm RCC/Polymer earth inspection chamber** complete with:
 - Heavy-duty lockable cover,
 - Test link,
 - Permanent identification plate.
12. Every earth pit shall be assigned a **unique identification number** corresponding to the approved earthing layout drawings.
13. Earth conductors exposed above ground or passing through walls, foundations, or structures shall be adequately protected using **GI sleeves or HDPE conduits** against mechanical damage and corrosion.
14. The complete earthing system shall be interconnected to form a common **equipotential earthing grid** covering all electrical installations including LT panels, transformers, DG sets, cable trays, metallic structures, equipment frames, and lightning protection system.
15. After completion of installation, the contractor shall carry out **earth resistance testing** using a calibrated Earth Resistance Tester and submit certified test reports for approval before commissioning.
16. The contractor shall submit **as-built earthing layout drawings** indicating:
 - Location of each earth electrode,
 - Earth pit identification number,
 - Routing of earth conductors,
 - Measured earth resistance values.
17. All materials used for the earthing system shall be new, of approved make, free from manufacturing defects, and conform to the relevant Indian Standards.
18. The contractor shall ensure that all excavation, installation, testing, and restoration works are carried out safely without disturbing existing underground utilities.

Measurement

The quoted rate shall be deemed to include the complete scope of work including supply, installation, excavation, conductive backfill compound, earth electrode, earth conductor, inspection chamber, clamps/connectors, sleeves, testing, commissioning, identification marking, as-built drawings, and all labour, tools, tackles, consumables, and accessories required for a complete maintenance-free earthing system. **No separate payment shall be made** for excavation, backfilling, testing, identification, restoration, or any incidental work necessary for successful completion of the earthing system in accordance with **IS 3043**.

AUTHORIZATION
CERTIFICATE

To,
The Director
All India Institute of
Ayurveda (AIIA), Goa

Respected sir/madam,

Authority letter against tender enquiry no..... due on..... Name of Item
quoted..... we

....., who are established and reputed
manufacturer ofhaving factory atand
hereby authorize M/s..... (Name & Address of Agent) to
Bid, Negotiate and conclude the contract with your Institution against above tender for the above
goods manufactured by us.

Yours Faithfully

(Signature & Name of Manufacturer)

(With Address & Seal)

(NOTE: This letter of Authorization should be on the letter head of the manufacturing concern and should be signed by a person competent and having the Authorization to issue said certificate on behalf of the manufacturing firm. The said certificate **should also bear the signature of the participating tenderer as a witness**)

It should be uploaded on letter head.**EMD Declaration Form**

Date:

To,

The Director**All India Institute of Ayurveda Goa**

Ref: TENDER no. _____

Dear Sir,

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

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

The validity of this declaration will remain till the announcement of the name of the successful Bidder & if, I am/we are not the successful Bidder.

Yours faithfully,

Place:

(Signature of Bidder with seal)

Name of Bidder :

Seal :

Address :

PARTICULARS FOR PERFORMANCE Bank GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of Two Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE SCHEDULED BANK (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA. BONDS ISSUED BY CO- OPERATIVE BANKS ARE NOT ACCEPTED)

To,
The Director
All India Institute of Ayurveda Goa
(AIIA, Goa), Goa-403513

LETTER OF GUARANTEE

WHERE AS All India Institute of Ayurveda, Goa (Buyer) have invited Tenders vide Tender No.Dt.....for **p u r c h a s e** of. AND

WHERE AS the said tender document requires the supplier/firm(seller)whose tender is accepted for the supply of instrument/machinery, etc. in response there to shall establish an irrevocable Performance Guarantee Bond in favour of "AIIA" in the form of Bank Guarantee for Rs.....[10% (ten percent)of the purchase value] which will be valid for entire warranty period from the date of installation &commissioning, the said Performance Guarantee Bond is to be submitted within 30(Thirty) days from the date of Acceptance of the Purchase Order.

NOW THIS BANKHERE BY GUARANTEES that in the event of the said supplier/firm (seller) failing to abide by any of the conditions referred to intender document/purchase order/performance of the instrument/machinery, etc. This Bank shall pay to All India Institute of Ayurveda, Goa on demand and without protest or demur(Rupees).

This Bank further agrees that the decision of All India Institute of Ayurveda, Goa(Buyer) as to whether the said supplier/firm (Seller) has committed a breach of any of the conditions referred in tender document/ purchase order shall be final and binding.

We, (name of the Bank& branch) here by further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the supplier/firm(Seller)and/or All India Institute of Ayurveda, Goa(Buyer).

Not with standing anything contained herein:

- Our liability under this Bank Guarantee shall not exceed.....(Indian Rupeesonly).
- This Bank Guarantee shall be valid upto. (date) and
- We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if AIIA serve upon us a written claim or demand on or before (Date)

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office atsituated at.....
(Address of local branch).

Yours truly,

Signature and seal of the Guarantor
Name of the
Bank:.....
Complete Postal Address:

Form-A**PARTICULARS FOR REFUND OF EMD TO SUCCESSFUL/UNSUCCESSFUL BIDDER
RTGS / National Electronic Fund Transfer (NEFT) Mandate Form**

1.	Name of the Bidder	
2.	Permanent Account No(PAN)	
3.	Particulars of Bank Account	
	a) Name of the Bank	
	b) Name of the Branch	
	c) Branch Code	
	d) Address	
	e) City Name	
	f) Telephone No	
	g) NEFT/IFSC Code	
	h) RTGS Code	
	i) 9 Digit MICR Code appearing on the cheque book	
	j) Type of Account	
	k) Account No.	
4	Email id of the Bidder	
5.	Complete Postal Address of the bidder	

Form – B**Declaration by the Bidder:**

1. I/We have downloaded the tender from the internet site and I/We have not tampered /modified the tender documents in any manner. In case the same is found tampered/ modified, I/We understand that my/our offer shall be summarily rejected and I/We are liable to be banned from doing business with AIIA and/or prosecuted as per laws.
2. I/We have read and fully understood all the terms and conditions contained in Tender document regarding terms & conditions of the contract& rules and I/we agree to abide them.
3. The bidder should not have been blacklisted before at any government Organization/institute etc.
4. The bidder should not be prosecuted by any court of law defaulter for any Bank/Financial organization etc.
5. No other charges would be payable by Client and there would be no increase in rates during the Contract period.

Place:-

(Signature of Bidder with seal)

Date:-

Name :

Seal :

Address :

Appendix -II

Financial Bid (Bill of Quantities - BOQ)

Name of work: Procurement, Supply, Installation, Testing and Commissioning (SITC) of Main LT Panel, LT Cabling, Earthing System and Associated Electrical Distribution Works for the CT Scan Machine and Other Associated Electrical Loads at AIIA Goa.

Sr. No.	Technical specifications	Unit	Qty	Rate	Total Amt.
A	PANELS <u>Important Notes:</u> 1. The BOQ shall be read in conjunction with the General Notes, Technical Specifications, and Single Line Diagram (SLD-01). In case of any discrepancy between the Specifications, BOQ, and SLD, the bidder shall bring the same to the notice of the Engineer-in-Charge before submission of the bid. No claim on account of such discrepancy shall be entertained after submission of the bid. 2. The fault current specified shall represent the service breaking capacity (Ics), and the value of Ics shall be equal to 100% of the ultimate breaking capacity (Icu). 3. All MCCBs shall be provided with door-interlocked rotary operating handles with ON/TRIP/OFF position indication. 4. All feeder compartments shall be provided with pad-lockable doors. 5. All three-pole (TP) feeders shall be provided with a solid, isolable neutral link. 6. All power contactors, including neutral contactors (where applicable), shall be of AC-3 duty rating conforming to the relevant IEC standards. 7. All incoming and outgoing power and control cable terminals shall be extended up to the cable alley. In addition, 10% spare terminals shall be provided for future use. 8. An additional 10% spare LED indicating lamps shall be supplied along with the panel. 9. All Current Transformers (CTs) and Potential Transformers (PTs) shall be of rectangular nylon-cased type. 10. All measuring instruments and meters shall be of digital type. 11. The panel shall be powder-coated in the approved shade with a minimum coating thickness of 60 microns. 12. All switchgear, including MCBs and MCCBs installed within a panel, shall be of the same approved manufacturer. 13. The ammeter provided for the incomer feeder shall be of 96 mm × 96 mm flush-mounted type with shrouded terminals. 14. The busbar chamber shall be located at the top of each panel. 15. All busbars shall be insulated with colour-coded PVC heat-shrink sleeves in accordance with the applicable phase colour code (R-Y-B, Neutral, and Earth). 16. Internal panel wiring shall be carried out using 2.5 sq.mm flexible copper conductors for CT circuits and 1.5 sq.mm flexible copper conductors for control wiring. 17. All indicating lamps shall be of LED type. 18. All materials and equipment shall be of the approved makes specified in the tender document or equivalent makes approved by the Engineer-in-Charge.				
1	Design, manufacture, supply, installation, testing, and commissioning of the following MV panels suitable for a 415 V, 3-phase, 4-wire, 50 Hz power distribution system. The panel shall be of indoor, free-standing, floor-mounted, steel metal-clad, cubicle, dead-front, dust-proof, and vermin-proof compartmentalized design, fabricated from 14 SWG CRCA sheet steel, complete with colour-coded, heat-shrinkable PVC-insulated aluminium mini busbars and a separate earth busbar of adequate cross-section throughout the length of the panel. The incoming and outgoing feeders shall be accommodated in	Each	1		

	a fully segregated, modular, multi-tier arrangement with adequately sized and distinct cable alley and busbar alley/chamber. The panel shall be complete with nameplates, earthing, numbering, danger plates, etc., as required and in accordance with the specifications and drawings. The panel shall be designed to withstand the fault level specified elsewhere in the tender document or as indicated in the Single Line Diagram (SLD), and shall consist of the following switchgear				
	1250A Aluminium Busbar, 50kA, 415V, 3Ph, 4W	Set	1		
	1250A, 4P, 50kA ACB with Micrologic Release	No	1		
	Multifunction Meter (MFM) for Incomer	No	1		
	CT Set for Incomer Metering & Protection	Set	1		
	RYB Indication Lamps	Set	1		
2	Design, manufacture, supply, installation, testing and commissioning of following MV panels suitable for 415V, 3 phase, 4 wire, 50 Hz power distribution system. The panel should be indoor free standing floor mounting, steel metal clad, cubical, dead front, dust and vermin proof type compartmentalised design fabricated out of 14 swg CRCA sheet steel complete with colour coded, heat shrinkable PVC insulated, aluminum mini bus bar and separated earth bus bar of adequate cross section through out the length of the panel. the incoming and outgoing feeders shall be accommodated in full segregated ,modular multitier arrangement with adequated size and distinct cable alley bus bar alley/chamber. the panel shall be completed with name plate earthing, numbering danger plate etc.as required as per specification and drawings. the panel shall withstand with fault level of as indicated elsewhere or shown in single line diagram consisting of the following switchgear	Each	1		
	1000A Aluminum Busbar, 50kA, 415V, 3Ph, 4W	Set	1		
	Type 1+2 Surge arrestor	No	1		
	1000A, 4P, 50kA ACB Incomer with Micrologic Release	No	1		
	Multifunction Meter (MFM) for Incomer	No	1		
	CT Set for Metering & Protection	Set	1		
	250A, 4P MCCB Outgoing Feeder, 36kA	Nos	2		
	400A, 4P MCCB Outgoing Feeder, 36kA	Nos	2		
	Space provision for 400A, 4P MCCB Outgoing Feeder(empty feeder)	nos	2		
	Space provision for 100A, 4P MCCB Outgoing Feeder(empty feeder)	No	1		
	RYB Indication Lamps	Set	1		
	ON/OFF/TRIP Indications	Set	1		
3	Providing, fabricating, modifying, and extending the existing Main LT Panel busbar arrangement to facilitate termination and connection of power cables for the proposed new LT Panel. The scope shall include detailed site assessment, shutdown coordination, dismantling of existing busbar sections as required, fabrication and installation of suitably rated copper/aluminium busbar extensions,	JOB	1		

	busbar supports, insulation sleeves, heat-shrinkable insulation, jointing hardware, high-tensile nuts, bolts, washers, shrouds, insulating barriers, and all associated accessories. The work shall include drilling, punching, alignment, busbar jointing, tightening with calibrated torque, continuity testing, insulation resistance testing, phase identification, reconnection, commissioning, and restoration of the panel to operational condition. The rate shall include all materials, consumables, tools, testing equipment, labour, supervision, transportation, shutdown assistance, safety precautions, and any incidental works required for complete and satisfactory execution of the modification works.				
	Scope Includes: Modification of existing LT panel busbars. Provision of busbar extension pieces of matching rating and fault level. Busbar support insulators and mounting arrangements. Jointing hardware and insulation materials. Cable termination arrangement for new proposed panel feeder. Testing, commissioning, and restoration of supply. Labour, tools, tackles, and consumables complete.				
B	<u>LT Cables, Terminations</u>				
1	Supply & Laying of 3.5 core armoured PVC insulated, PVC/XLPE sheathed copper conductor cable of 1.1 KV grade with ISI mark conforming to IS: 1554(Part 1) , IS:7098 (Part ii) with latest amendments of following size. 3.5 core 300 sq.mm	Meter	1140		
2	Supplying and making cable end terminations with brass compression (double compression) gland and aluminum lugs for following sizes of 3.5 Core PVC insulated PVC sheathed/XLPE copper conductor cable of 1.1 KV grade, complete as required. 3.5 core 300 sq.mm	Each	16		
3	Excavation For trench as per Cable Trench Drawing provided by the Engineer-In charge, and cushioning with screened sand bed of 20mm thick , protective covering with bricks placed lengthwise on top of cable all over the run and backfilling the excavated earth without stones or hard material and making the surface proper with 15 cm crown on the top complete as required.	Rmt	250		
C	<u>EARTHING</u>				
1	Supply, installation, testing and commissioning (SITC) of Maintenance-Free Chemical Earthing Electrode complete with 3.0 m long copper-bonded steel/GI electrode, maintenance-free conductive backfill compound, earth inspection chamber with heavy-duty cover, test link, identification tag,	Each	2		

	excavation, backfilling, interconnection to earth grid using specified GI/Copper strip, all clamps, connectors, accessories, testing and commissioning, complete in all respects as per IS 3043 (latest edition), IEC standards, approved drawings and the Engineer-in-Charge's instructions.				
2	Providing and fixing 50 mm x 6 mm GI strip on surf connections etc. as required	Meter	200		
3	Providing and fixing 25 mm x 3 mm GI strip on surface or in recess for connections etc. as required	Meter	80		
D	<u>Cable Trays</u>				
1	Supply and fixing of Perforated Cable tray with horizontal & vertical bends, reducers, Tee's, cross over, suitable supports and brackets and other accessories as required confirming to IEC-61537. The Tray shall be galvanized for corrosion protection confirming to DIN EN 10346 / ISO 1461. The trays should be tested for a safe working load of 150 Kgs with a span distance of 1.5 meters and the deflection should be within the limits as per standard. The safety factor shall be 1.7 times of the safe working load..				
	300mm width x 100mm depth	Meter	25		
	Total				
	Taxes				
	Grand Total				