

## **1. Requirement:**

1. Bids are invited under two bid system from the eligible vendors /manufacturers / distributors for supply, installation, Testing, Commissioning of 60 nos. IP Cameras with NVR based Closed Circuit Television Systems (CCTV) for Attukal Bhagavathy Temple Trust, Trivandrum
  2. Interested parties may submit their tender in 2 separate sealed covers super scribed as “TECHNICAL BID” and “COMMERCIAL BID”.
    - a) Cover-I :- Duly sealed cover superscribed as “Technical Bid – For supply, installation, Testing, Commissioning of 60 nos. IP Cameras with NVR based Closed Circuit Television Systems (CCTV)” shall contain only technical bid along with Basic Information, details of the company, covering letter for technical bid with all copies of certificates, work experience etc.
    - b) Cover-II: - Duly sealed cover superscribed as “Commercial Bid – For supply, installation, Testing, Commissioning of 60 no. IP Cameras with NVR based Closed Circuit Television Systems (CCTV)” shall contain only Commercial Bid in the format prescribed by the Trust.
    - c) DD for **Rs.10,000/-** favoring SECRETARY, Attukal Bhagavathy Temple Trust as Earnest Money D e p o s i t drawn on any private or public sector bank
    - d) Both the sealed covers and DD shall then be put in one single envelope and sealed duly super scribing “Application/Offer for supply, installation, Testing, Commissioning of 60 nos. IP Cameras with NVR based Closed Circuit Television Systems (CCTV)”. This envelope should contain **Technical, Commercial** bids and DD of Rs.10000/- favoring “SECRETARY, Attukal Bhagavathy Temple Trust ” as Earnest money deposit.
  3. Commercial Bid shall contain nothing but rate of equipment per item without any conditions. It should be submitted in the enclosed format only.
  4. The completed sealed (Technical Bid & Commercial Bid) cover, super scribed as “For supply, Installation, Testing, Commissioning, of 60 nos IP Cameras with NVR based CCTV Systems Attukal Temple may be addressed to “The Secretary Attukal Temple Trust, Trivandrum .
  5. “Technical Bid” will be opened First for short listing of parties/ firms for the opening of Commercial Bid.
  6. Commercial Bids of only those parties who have qualified for short listing on opening of technical bid will be opened.
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7. The work has to be carried out as per site conditions.
  8. Any item of the work in part or full may be deleted from the tender during execution as per Trust's requirements and the decision of the Trust will be final.
  9. Attukal Bhagavathy Temple Trust reserves the right to accept or reject any tender irrespective of whether the lowest without assigning any reasons thereof.
  10. The Bids are required for Attukal Bhagavathy Temple Trust at Trivandrum
  11. The rate quoted should be inclusive of all incidental expenses at a uniform rate
  12. All bidders are requested to study the tender document carefully before submitting their tenders.
  13. Completed quotes in sealed envelopes should reach "The Secretary Attukal Bhagavathy Temple Trust, Trivandrum" on or before **18th October 2019. 3.30PM**
  14. Rate quoted should be valid for a period of six months from the date of work order.
  15. Tenders will be opened at **18th October 2019. 4.00PM** at the Office of The Secretary Attukal Bhagavathy Temple, Trivandrum
  16. Canvassing in any form in connection with pre-qualifications is strictly prohibited and the bid of such persons / organizations who resort to canvassing will be liable for rejection.
  18. The bid which is received after due date & time is liable for rejection. Applications incomplete in any respect & which are not legible are also liable for rejection.
  19. Bidder may submit the tenders only in the desired format, in two envelopes as explained in the document. Submission of tenders in any other format will not be entertained & will be summarily rejected.
  20. If the space in the Performa is insufficient for furnishing full details, such information may be supplemented on separate sheets of paper, stating therein the part of the Performa and serial number. Separate sheets shall be used for each part. However the format shall be as per Performa.
  21. Each page of the bid should be signed. The application shall be signed by persons / persons on behalf of the organization having necessary authorization / Power of Attorney to do so.
  22. The Temple Trust reserves the right to cancel one or all tenders without assigning any reason whatsoever.
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## **2. Scope of the work:**

1. The work consists of supply, Installation, Testing, Commissioning, Training and Maintenance of the Closed Circuit Television (CCTV) system in accordance with the technical specifications, terms and conditions mentioned in tender documents.
2. The vendor has to supply and install the following equipment at specified locations as required by the Trust

Sl	Item	Qty	UoM
1	<b>32ch NVR 4HDD upto 32TB 16POE 16Ch at 1080p 4K</b> <ul style="list-style-type: none"><li>• High decoding capability for Ultra 4K HD viewing and recording</li><li>• View 4/8/16 channels simultaneously with synchronized real-time Playback on your monitor (depending on your model)</li><li>• Up to 12 MP (4K) resolution live view, preview and playback</li><li>• Up to 16 channels at 1080p H.265/H.264 decoding</li></ul>	<b>2.00</b>	<b>nos</b>
2	<b>2MP IP Bullet Camera Fixed lens</b> <ul style="list-style-type: none"><li>• 2MP full real time recording</li><li>• Max resolution: 1920 x 1080</li><li>• True day night function</li><li>• Upto 30m IR distance</li><li>• 3D DNR, DWDR</li><li>• IP 66 certified</li><li>• Support triple streams</li><li>• Onvif Profile S/G compliant</li><li>• Video compression Preferable H.265 or higher</li></ul>	<b>30.00</b>	<b>nos</b>
3	<b>2MP IP Bullet Camera Varifocal lens</b> <ul style="list-style-type: none"><li>• 2MP full real time recording</li><li>• Max resolution: 1920 x 1080</li><li>• True day night function</li><li>• Upto 30m IR distance</li><li>• 3D DNR, DWDR</li><li>• IP 66 certified</li><li>• Support triple streams</li><li>• Onvif Profile S/G compliant</li><li>• Video compression Preferable H.265 or higher</li></ul>	<b>17.00</b>	<b>nos</b>

4	<b>2MP IP Eyeball Fixed lens Camera</b> <ul style="list-style-type: none"> <li>• 2MP full real time recording</li> <li>• Max resolution : 1920 x 1080</li> <li>• True day night function</li> <li>• Upto 30m IR distance</li> <li>• 3D DNR, DWDR</li> <li>• IP 66 certified</li> <li>• Support triple streams</li> <li>• Onvif Profile S/G compliant</li> <li>• Video compression Preferable H.265 or higher</li> </ul>	10.00	nos
5	<b>4MP IP Bullet H265 IR TDN 2pt 7 to 13pt 5mm Camera</b> <ul style="list-style-type: none"> <li>• 4MP full real time recording</li> <li>• Max resolution: 2688 x 1520</li> <li>• True day night function</li> <li>• Upto 30m IR distance</li> <li>• 3D DNR,</li> <li>• IP 66 certified</li> <li>• Video compression Preferable H.265 or higher</li> <li>• Onvif Profile S/G compliant</li> </ul>	1.00	nos
6	<b>100/M 2MP Motorized PTZ IP camera</b> <ul style="list-style-type: none"> <li>• Full HD 1080p resolution, 50/60 fps image with a 1/2.8" 2 megapixel sensor</li> <li>• True WDR 120 dB ensures glare-free images</li> <li>• True Day/Night provides vivid color images by day and clear black and- white images at night with ICR (Infrared Cut Filter Removal)</li> <li>• Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 codec</li> </ul>	2.00	nos
7	<b>PoE 28p Fast Ethernet 10/100/1000 Switch</b> <p>1, Network Ports • 16 auto speed-sensing 10/100/1000 RJ-45 ports</p> <p>2, Performance Specifications • Forwarding modes: Store-and-forward • Bandwidth: 1.6Gbps • Network latency: Less than 20 µs for 64-byte frames in store-and-forward mode for 100Mbps to 100Mbps transmission • Buffer memory: 96KB embedded memory per unit.</p> <p>3, Status LEDs • System: Power, PoE maximum Power • Per port: Link, activity, speed, PoE active, PoE fault</p> <p>4, Electromagnetic Immunity • EN 55024 5, Confirming to standards• IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1</p>	1.00	nos

8	<b>PoE 16-Port Fast Ethernet 10/100/1000 Switch</b> <b>1, Network Ports • 8 auto speed-sensing 10/100/1000 RJ-45 ports</b> <b>2, Performance Specifications • Forwarding modes: Store-and-forward • Bandwidth: 1.6Gbps • Network latency: Less than 20 µs for 64-byte frames in store-and-forward mode for 100Mbps to 100Mbps transmission • Buffer memory: 96KB embedded memory per unit.</b> <b>3, Status LEDs • System: Power, PoE maximum Power • Per port: Link, activity, speed, PoE active, PoE fault</b> <b>4, Electromagnetic Immunity • EN 55024 5, Confirming to standards• IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1</b>	4.00	nos
9	<b>SM-SC Media convertor 10/100/1000 Gigabyte</b> <b>1, UTP category 6, 6e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 1000m)</b> <b>2, Complies to IEEE 802.3u standards</b>	4.00	nos
10	<b>PoE Injector</b> <b>1, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1 10/100/1000Mbps Auto-Negotiation RJ45 LAN port (LAN IN)</b> <b>2, 100BASE-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100 STP (maximum 10m) 3, 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m) Auto-Sensing Algorithm enables providing power with 802.3af PD</b>	4.00	nos
11	<b>22U floor rack</b> <b>1,Construction - Welded 500X800D</b> <b>2,Front Door - Lockable Toughened Glass Door</b> <b>3,Basic Frame - Steel</b> <b>4,Equipment Mounting - DIN Standard Slots</b> <b>5,Mounting Angle - 19” Mounting angles made of formed steel</b> <b>6,Standard Finish - Powder Coated</b> <b>7,Top and Bottom Cover - Welded to Frame, Vented and Field Cable entry exit cut outs</b> <b>8,Standard Color - Grey or Black</b>	1.00	nos

12	<b>6U wall mountable rack</b> <b>1,Construction - Welded 500X800D</b> <b>2,Front Door - Lockable Toughened Glass Door</b> <b>3,Basic Frame - Steel</b> <b>4,Equipment Mounting - DIN Standard Slots</b> <b>5,Mounting Angle - 19" Mounting angles made of formed steel</b> <b>6,Standard Finish - Powder Coated</b> <b>7,Top and Bottom Cover - Welded to Frame, Vented and Field Cable entry exit cut outs</b> <b>8,Standard Color - Grey or Black</b>	<b>4.00</b>	<b>nos</b>
13	<b>6TB 6000Gb surveillance hard disk</b> <b>1, SATA Interface with minimum 7200 rpm</b> <b>2, Buffer size 64mb</b> <b>3, Storage Interface Serial ATA-600</b> <b>4, Features, Advanced Format technology, AllFrame, IntelliPower, IntelliSeek, Time-Limited Error Recovery (TLER), surveillance system compatible</b>	<b>4.00</b>	<b>nos</b>
14	<b>LED Professional Display IPS 81cm</b> <b>1, Viewable image size (diagonal) 81 cm (32 inches)</b> <b>2, Maximum resolution 1980 x2768 at 60 Hz</b> <b>3, Color depth 16.7 million colors</b> <b>4, Connectors 2/HDMI Ports</b> <b>5, HDMI Cables 2 nos</b>	<b>2.00</b>	<b>nos</b>
15	<b>Cat6 Outdoor UTP Cable with ISI Mark Conducts</b> <b>1, Conductor: Solid Bare Copper AWG: 23</b> <b>2, Compliant to TIA / EIA 568-C.2, Cat 6 and ISO/IEC A1801 Class E cable specification</b> <b>3, Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.</b> <b>4,Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation.</b>	<b>3050.00</b>	<b>mtrs</b>
16	<b>Single mode 6 core OFC Cable</b> <b>Outside Plant Fiber Optic Cable, 6-fiber, OS2, HDPE, loose tube, gel-filled, Minimum Bend Radius, loaded 199.9 mm   7.9 in</b> <b>Minimum Bend Radius, unloaded 160.0 mm   6.3 in Tensile Load, long term, maximum 1250 N   281 lbf</b>	<b>600.00</b>	<b>mtrs</b>
17	<b>CAT6 fully loaded patch panel</b>	<b>5.00</b>	<b>nos</b>
18	<b>OFC 12-Port LIU</b>	<b>5.00</b>	<b>nos</b>
19	<b>10SFP 10-port Gigabit Managed SFP Switch</b>	<b>1.00</b>	<b>nos</b>
20	<b>SFP Gigabit module</b>	<b>10.00</b>	<b>nos</b>
21	<b>OFC patch chord LC-LC Duplex</b>	<b>10.00</b>	<b>nos</b>

22	OFC patch chord SC-LC Duplex	4.00	nos
23	CAT6 patch chord	60.00	nos
24	RJ45 Connector	100.00	nos
25	32/25 MM HD ISI Pipe	400.00	mtrs
26	25/32/MM PVC ISI Pipe/case and cap	1000.00	mtrs
27	GA Pole 3/inch 5.5/M	3.00	nos
28	Outdoor SINTEX Box	15.00	nos
29	Indoor PVC Box	45.00	nos
30	HDMI 5/M	2.00	nos
31	Digging soft soil as per site conditions	250.00	mtrs
32	Digging Hard soil(Tar, Concrete cutting, floor tile cutting and re-paving tiles ) as per site conditions	100.00	mtrs
33	1KVA UPS with one hour back up	4.00	nos
34	Basic Electrical points 3+1 5amp	5.00	nos

3. The specification of the equipment supplied should be equivalent or higher than the specifications mentioned in the tender document and the bidder should specify the brand/model/make in their technical offer.
4. The cameras installed should cover maximum area and all corners of the Temple inside and outside.
5. It is the responsibility of the bidder to handover the premises without any damages to the Trust after installation. The roof ceiling, walls, paints, glass doors etc should be maintained properly during the installation.
6. If any damage happen, then it is the responsibility of the bidder to repair it at their expense to the satisfaction of the Trust.
7. During the installation or execution of work, the bidder should not disturb electrical lines. LAN cabling etc.
8. After successful installation and testing, vendor has to impart training to the selected staff of the office to operate the equipment /NVR.
9. **The equipments supplied should be under on-site warranty for a period of 3 years. After completion of the warranty, the vendor has to provide 3 years comprehensive AMC at the agreed rates. AMC Rates should be submitted along with the bid.**
10. The prices quoted in the Commercial Bid should be inclusive of all materials, labour, tools and equipment and necessary management charges for completion of the work.

11. All work during its progress and upon completion, shall conform to the lines and levels as shown on the drawings furnished by the Trust
12. The vendor shall be responsible for the functioning of the CCTV system according to the laid down specification, terms and conditions mentioned in the tender document.
13. The vendor shall execute the work in consultation with the Temple priest, in order not to disturb the age old rituals.
14. The vendor shall quote the prices for providing complete solution. After placing the order, the temple trust will not be liable to pay any extra amount which is not mentioned in the commercial bid.
15. All products/ items should be having certifications as specified in the technical specifications.
16. Interested tenderer can visit the site and make themselves thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport condition, effective labour and materials, access and storage for materials and removal of debris and waste materials.
17. The vendor has to take care of cost of carriage, freight and other charges as also for any difficulties, including police restrictions for transport etc. for proper execution of work as indicated in the drawings.
18. The successful vendor will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site condition during the execution of work
19. The Temple Trust reserves the right to reject the lowest or any other tender and also to discharge any or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.
20. The vendor should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting.
21. The works will be paid for as “measured work” on the basis of actual work done on item rate basis and not as “lump sum” contract.
22. The Temple trust reserve the right to add /to omit any work as shown in drawings or described in specifications or include any item in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the contractor without authorization from the Trust. No variation shall vitiate the contract.
23. The vendor shall be deemed to have satisfied himself as to the correctness and sufficiency of his tender before making the offer for the works and of the rates and prices quoted in the



Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

**24.** The applicant shall note that his tender shall remain open for consideration for a period of 60 (sixty) days from the date of opening of the tender.

**25.** The company should provide standby CCTV/NVR before taking it away from the Temple for more than 48 hours in case where the CCTV/NVR is not repairable at the location

**26.** Please note that the Trust will apply penalty as below in case of discrepancy in services

a) If the CCTV system is down for more than three working days, then Trust will revoke the bank guarantee

b) If the Trust observes any unsatisfactory services after sales, in discipline/ misconduct, of the authorized technicians delay in repair / maintenance, Trust will black list the company / firm.

**27.** The installation of the CCTV Systems and AMC of the system will be verified by technical consultant and in case the parameters as specified are not followed strictly, then amount paid by the Trust towards installation of the system in question plus Rs.25000/- as penalty will be recovered from the company and company will be black listed by the Trust. In such cases, all the expense incurred should be borne by the vendor firm itself.

**28.** The vendor should supply the CCTV system which can serve for a period of at least of 5 years (i.e. the life time of the CCTV should be a minimum of 5 years).

**29.** After warranty period, Trust is likely to engage the same vendor for AMC. During the warranty period or AMC period, if CCTV system has become beyond economical repair before the actual life period i.e. 5 years, then the vendor has replace the faulty CCTV device free of cost.

**30.** The supplier should give Bank Guarantee for a value of 2% on contract value

### **3. General Conditions:**

1. The Successful Bidder will be engaged for supplying, installation, Testing, Commissioning, NVR, CCTV Systems to Attukal Bhagavathy Temple Trust
2. The Successful Bidder will have to inform the names of their authorized technicians to be deployed at the site during the work, and their normal working hours & availability at site.
3. No escalation of rate will be considered after submission of the tender.
4. No payment will be made towards expenses related to transportation, accommodation, food, site office, labour camps, storage etc during the execution of work.
5. The vendor should be able to complete the supply, installation, testing, Commissioning of 60 nos IP Cameras with NVR Systems within 30 days from the date of purchase order.
6. Payment Terms: Payment will be made against invoice after completion of job & submission of installation report to Trust office.
7. The temple trust reserves the right for the following:
  - a) Reject any or all proposals received in response to the tender without giving any reason whatsoever
  - b) Reject the proposals received in response to the tender containing any deviation from the payment terms stipulated
  - c) To independently ascertain information from other institutions at which the company / firm has already executed similar services for similar assignment.
  - d) Apply whatever evaluation criteria deemed appropriate for evaluation of Technical Bids.
  - e) To terminate the services if the assignment is not proceeding in accordance with the terms of contract or undue delay is taking place in execution of the assignment.
8. Decision of the Temple trust with regard to the selection of the vendor will be final and binding on the bidders.

### **9. Signing of Contract / agreement**

The successful bidder shall sign an agreement within 7 days from date of “acceptance of the tender” With the Temple trust in the prescribed form on a judicial stamp paper. All legal expenses, incidental thereto shall be borne by the bidder. If the bidder fails to sign the agreement within the stipulated time the Trust reserves the right to reject the “Letter of acceptance” and forfeit the Earnest money deposit submitted by the bidder.

### **10. Permit and Licenses**

Permissions from the competent authorities for transportation of the materials/equipment to execute the purchase/work orders are the responsibility of the vendor. It may be clearly understood that no compensation or additional charges can be paid by the Trust .

The software / computer programmes used to execute the purchase/work orders should be

licensed from the respective vendor/manufacturer/supplier.

The Temple trust shall be indemnified against all Temple Trust or legal actions for any mistake / illegality in the use of the materials/equipment/software used to execute the purchase/work orders.

#### 11. Temple Trust and Local Rules

The vendor shall conform to the provisions of all local Bye-laws and Acts relating to the work and to the Regulations and directions of the Temple Trust and Local Authorities. The vendor shall give all notices required by said Act, Rules, Regulations and Bye-laws etc., and pay all fees payable to such authority/authorities for execution of the work involved. The cost, if any, shall be deemed to have been included in his quoted rates, taking into account all liabilities for licenses, fees and the vendor shall indemnify the Trust against such liabilities and shall defend all actions arising from such claims or liabilities.

#### 12. Taxes and Duties

The vendor must include in their tender prices quoted, all duties, royalties, cess, GST or any other taxes or local charges if applicable. No extra claim on this account will in any case be entertained.

#### 13. Quantity of work to be executed

The quantities shown in the schedule of quantities are only approximate and are intended to cover the entire premises of the temple. The Trust reserves the right to execute only a part or the whole or any excess thereof without assigning any reason thereof.

#### 14. Earnest Money and Retention money

The bidder will have to deposit an amount **Rs.10,000/-** in the Tender Notice in the form of Bank Draft drawn in favour of “Secretary, Attukal Bhagavathy Temple Trust” at the time of submission of tender as Earnest Money Deposit. No interest will be paid on the Earnest money Deposit. The Earnest money of the unsuccessful bidders will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

The retention amount of 2% of the work value will be kept for 36 months from the date of completion of the work and the retention amount will be refunded to the bidder, after deducting any sum due from the bidder on any account under this contract, 30 (thirty) days after the end of defects liability period provided the bidder has satisfactorily carried out all the work and rectified all defects in accordance with the conditions of the contract. No interest will be given on retention money.

#### 15. Bidder to arrange all necessary items.

The Bidder shall arrange everything necessary for the proper execution of the purchase/work order according to the scope of the work and technical specifications. If the bidder finds any problems/issues in executing the purchase/work order due to non-cooperation of Trust/temple employees/ or other reasons, it shall immediately brought to the

notice of the Trust. The bidder shall take full responsibility for adequacy, suitability and safety in executing the purchase/work orders during the supply, installation and implementation.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of work within the contemplation of the contract including maintaining the CCTV system during contract period, and beyond the unit price no extra payment will be allowed for incidental or contingent work, labour and/or materials or taxes and duties whatsoever except for any specific item, executed with prior consent of the Trust through separate work order.

The bidder shall supply, fix and maintain at his own cost, for the execution of any work, all tools, work and security precautions, machineries and equipments and all the necessary centering, scaffolding, staging required not only for the proper execution and protection of the said work but also for the protection of the public and safety of the Trust's property and any adjacent property and the bidder shall take down and remove any or all such centering, scaffolding etc., as occasion shall be required or when ordered so to do, and shall fully reinstate and make good all matters and things disturbed during the execution of works to the satisfaction of the Trust's office bearers / consultants.

The Trust shall on no account be responsible for the expenses incurred by the bidder/vendor during the progress of work at site, towards any incidental expenditure like medical amenities to the workers at site, security arrangement etc.

The Trust shall not be responsible for the safety of the workers at site either on account of the works executed by the bidder/vendor or on account of the works executed by any other agency involved at that time.

The Trust on no account shall be responsible for storage of materials or loss or pilferage or theft either in respect of the material stored or material already utilized at Trust premises.

Any facilities available at site shall be utilized only with prior permission of the Trust or the person in charge of the site/ building owner and cannot be taken as granted and for such services utilized the Trust is entitled to charge at its discretion.

No extra charges shall be paid over and above what has been quoted for any of the above or for similar such services.

## **16. Liquidated Damages**

If the Bidder fails to complete the works within the time for completion stated in the tender document or elsewhere or within any extended time allowed by the Trust, the Bidder shall pay the Trust a sum at the rate of 1% (one per cent) of the Contract Value per week of delay subject to a limit of 10% (ten percent) of the Contract Value as "Liquidated damages" for the period during which the said works shall so remain incomplete and the Trust may deduct aforesaid sum towards such damages from any amount due to the Bidder.

## **17. Safety Measures**

**Protective Measures:** The bidder from the time of commencing the works must make suitable arrangements for watching and protecting the work and no extra amount will be paid by Trust for such services.

Bidder shall indemnify the Trust against any possible damage to the building or members of the public in course of execution of the work.

Trust will not provide any protection or safety for the material kept in its premises for installation. The bidder shall take all precautions for protection of their materials during the supply and installation. The bidder/vendors shall make necessary arrangements for storage and safety of materials at site. The safety of materials at site or the stores shall be the responsibility of the bidder/vendor.

**Safety measures:** The bidder shall follow all safety measures for protecting the persons employed for the works and also for protecting the works executed and the Trust's property.

Necessary precautions in addition to the safety code annexed to these conditions shall be followed. All measuring tapes shall be of steel and suitable scaffolding and ladders that may be required for safety and taking measurement shall be supplied by the bidder.

#### **18. Patents of appropriate authority and owners**

The bidder shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-laws of any authorities whose systems are proposed to use to execute the purchase/work orders. The bidder shall indemnify the Trust against all claims in respect of patent rights, royalties and damages during the execution of work and shall defend all actions arising from such claims and shall keep the Trust saved from trouble and indemnified in all respects from such actions, costs and expenses.

#### **19. Safety Code**

All suitable arrangements are to be done by the bidder and suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction, which can be done safely from ladders.

All personnel of the bidder working in the site shall be provided with safety equipments like helmets, boots etc. Adequate precautions shall be taken to prevent danger from electrical equipment and installations. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. Necessary safety belts shall be used while working above the ground level.

The bidder shall take all measures on site of the work to protect the public/staff of the Trust from accidents and shall be bound to bear the expenses of every suit, action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the precautions and to compensate any such persons to compromise any claim.

#### **20. Personal Safety Equipments**

All necessary personal safety equipment as considered adequate by the Engineer should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the bidder should take adequate steps to ensure proper use of equipment by those concerned. Workers employed on handling items / materials of toxic nature shall be provided with protective footwear and protective goggles. Those engaged in chipping

grooves on wall and making bore holes shall be provided with protective goggles.

The bidder shall not employ any labour below the age of 18 years.

**21. Indemnity Bond:**

Bidder shall sign an Indemnity Bond in an approved format before starting the work, indemnifying the Trust from any damages, prosecution, other legal suits and claims arising out of any mishaps occurring at the site due to faulty work, usage of unlicensed /unpermitted equipment and for violating any rules and regulations for which the bidder shall be solely responsible.

**22. Support of the manufactures (OEMs) :**

The bidder shall furnish MAF of the equipment manufacturers against the items used in the works, with a commitment to direct support for the maintenance, supply of the spares and up-gradations by the OEM.

#### **4. Eligibility Criteria for the bidder:**

1.	Bidder should have an ISO Certification with a minimum of 5 years experience in commissioning of CCTV System at Nationalized Banks/Govt. Sectors/Temples by agencies having authorized dealership/OEM's of CCTV system. . The bidder should enclose manufacturer's authorization letter/dealership certificate from the Original Equipment Manufacturer (OEM's for the NVR & CCTV cameras).
2.	The bidder should give Bank Guarantee for a value of 2% on contract value
3.	Proof of registration with GST, and recent copies of the payment remittance as proof should be submitted.
4.	The bidder/OEM should be having office and service centre in Trivandrum. The company should have service network after sales within a radius of 10 kms from Temple. Proof of the same should be submitted.
5.	The bidder should have sound technical support staff for attending to the CCTV complaints
6.	The vendor should accommodate supply of quantities 25 %more or less than the quantity specified in the tender document
7.	The validity of the quote should be 90 days
8.	The company should not be on blacklist any PSU banks/Govt. organizations. Self declaration should be submitted by the authorized official of the company to this effect
9.	The company should have satisfactorily completed works as stated below during the last 3 years. Three similar works each costing not less than Rs.3 lakhs OR Two similar works costing not less than Rs.5 lakhs OR One similar work costing not less than Rs.10 lakhs

### **5. Technical Specifications:**

Sl	Item	Qty	UoM
1	<b>32ch NVR 4HDD upto 32TB 16POE 16Ch at 1080p 4K</b> <ul style="list-style-type: none"><li>• High decoding capability for Ultra 4K HD viewing and recording</li><li>• View 4/8/16 channels simultaneously with synchronized real-time Playback on your monitor (depending on your model)</li><li>• Up to 12 MP (4K) resolution live view, preview and playback</li><li>• Up to 16 channels at 1080p H.265/H.264 decoding</li></ul>	<b>2.00</b>	<b>nos</b>
2	<b>2MP IP Bullet Camera Fixed lens</b> <ul style="list-style-type: none"><li>• 2MP full real time recording</li><li>• Max resolution: 1920 x 1080</li><li>• True day night function</li><li>• Upto 30m IR distance</li><li>• 3D DNR, DWDR</li><li>• IP 66 certified</li><li>• Support triple streams</li><li>• Onvif Profile S/G compliant</li><li>• Video compression Preferable H.265 or higher</li></ul>	<b>30.00</b>	<b>nos</b>
3	<b>2MP IP Bullet Camera Varifocal lens</b> <ul style="list-style-type: none"><li>• 2MP full real time recording</li><li>• Max resolution: 1920 x 1080</li><li>• True day night function</li><li>• Upto 30m IR distance</li><li>• 3D DNR, DWDR</li><li>• IP 66 certified</li><li>• Support triple streams</li><li>• Onvif Profile S/G compliant</li><li>• Video compression Preferrable H.265 or higher</li></ul>	<b>17.00</b>	<b>nos</b>



4	<b>2MP IP Eyeball Fixed lens Camera</b> <ul style="list-style-type: none"> <li>• 2MP full real time recording</li> <li>• Max resolution : 1920 x 1080</li> <li>• True day night function</li> <li>• Upto 30m IR distance</li> <li>• 3D DNR, DWDR</li> <li>• IP 66 certified</li> <li>• Support triple streams</li> <li>• Onvif Profile S/G compliant</li> <li>• Video compression Preferable H.265 or higher</li> </ul>	10.00	nos
5	<b>4MP IP Bullet H265 IR TDN 2pt 7 to 13pt 5mm Camera</b> <ul style="list-style-type: none"> <li>• 4MP full real time recording</li> <li>• Max resolution: 2688 x 1520</li> <li>• True day night function</li> <li>• Upto 30m IR distance</li> <li>• 3D DNR,</li> <li>• IP 66 certified</li> <li>• Video compression Preferable H.265 or higher</li> <li>• Onvif Profile S/G compliant</li> </ul>	1.00	nos
6	<b>100/M 2MP Motorized PTZ IP camera</b> <ul style="list-style-type: none"> <li>• Full HD 1080p resolution, 50/60 fps image with a 1/2.8" 2 megapixel sensor</li> <li>• True WDR 120 dB ensures glare-free images</li> <li>• True Day/Night provides vivid color images by day and clear black and- white images at night with ICR (Infrared Cut Filter Removal)</li> <li>• Excellent low-light performance with 3D noise reduction, saving storage and bandwidth together with H.265 codec</li> </ul>	2.00	nos
7	<b>PoE 28p Fast Ethernet 10/100/1000 Switch</b> <b>1, Network Ports • 16 auto speed-sensing 10/100/1000 RJ-45 ports</b> <b>2, Performance Specifications • Forwarding modes: Store-and-forward • Bandwidth: 1.6Gbps • Network latency: Less than 20 µs for 64-byte frames in store-and-forward mode for 100Mbps to 100Mbps transmission • Buffer memory: 96KB embedded memory per unit.</b> <b>3, Status LEDs • System: Power, PoE maximum Power • Per port: Link, activity, speed, PoE active, PoE fault</b> <b>4, Electromagnetic Immunity • EN 55024 5, Confirming to standards• IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1</b>	1.00	nos

8	<b>PoE 16-Port Fast Ethernet 10/100/1000 Switch</b> <b>1, Network Ports • 8 auto speed-sensing 10/100/1000 RJ-45 ports</b> <b>2, Performance Specifications • Forwarding modes: Store-and-forward • Bandwidth: 1.6Gbps • Network latency: Less than 20 µs for 64-byte frames in store-and-forward mode for 100Mbps to 100Mbps transmission • Buffer memory: 96KB embedded memory per unit.</b> <b>3, Status LEDs • System: Power, PoE maximum Power • Per port: Link, activity, speed, PoE active, PoE fault</b> <b>4, Electromagnetic Immunity • EN 55024 5, Confirming to standards• IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1</b>	4.00	nos
9	<b>SM-SC Media convertor 10/100/1000 Gigabyte</b> <b>1, UTP category 6, 6e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 1000m)</b> <b>2, Complies to IEEE 802.3u standards</b>	4.00	nos
10	<b>PoE Injector</b> <b>1, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af 1 10/100/1000Mbps Auto-Negotiation RJ45 LAN port (LAN IN)</b> <b>2, 100BASE-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100 STP (maximum 10m) 3, 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m) Auto-Sensing Algorithm enables providing power with 802.3af PD</b>	4.00	nos
11	<b>22U floor rack</b> <b>1,Construction - Welded 500X800D</b> <b>2,Front Door - Lockable Toughened Glass Door</b> <b>3,Basic Frame - Steel</b> <b>4,Equipment Mounting - DIN Standard Slots</b> <b>5,Mounting Angle - 19” Mounting angles made of formed steel</b> <b>6,Standard Finish - Powder Coated</b> <b>7,Top and Bottom Cover - Welded to Frame, Vented and Field Cable entry exit cut outs</b> <b>8,Standard Color - Grey or Black</b>	1.00	nos

12	<b>6U wall mountable rack</b> <b>1,Construction - Welded 500X800D</b> <b>2,Front Door - Lockable Toughened Glass Door</b> <b>3,Basic Frame - Steel</b> <b>4,Equipment Mounting - DIN Standard Slots</b> <b>5,Mounting Angle - 19" Mounting angles made of formed steel</b> <b>6,Standard Finish - Powder Coated</b> <b>7,Top and Bottom Cover - Welded to Frame, Vented and Field Cable entry exit cut outs</b> <b>8,Standard Color - Grey or Black</b>	<b>4.00</b>	<b>nos</b>
13	<b>6TB 6000Gb surveillance hard disk</b> <b>1, SATA Interface with minimum 7200 rpm</b> <b>2, Buffer size 64mb</b> <b>3, Storage Interface Serial ATA-600</b> <b>4, Features, Advanced Format technology, AllFrame, IntelliPower, IntelliSeek, Time-Limited Error Recovery (TLER), surveillance system compatible</b>	<b>4.00</b>	<b>nos</b>
14	<b>LED Professional Display IPS 81cm</b> <b>1, Viewable image size (diagonal) 81 cm (32 inches)</b> <b>2, Maximum resolution 1980 x2768 at 60 Hz</b> <b>3, Color depth 16.7 million colors</b> <b>4, Connectors 2/HDMI Ports</b> <b>5, HDMI Cables 2 nos</b>	<b>2.00</b>	<b>nos</b>
15	<b>Cat6 Outdoor UTP Cable with ISI Mark Conducts</b> <b>1, Conductor: Solid Bare Copper AWG: 23</b> <b>2, Compliant to TIA / EIA 568-C.2, Cat 6 and ISO/IEC A1801 Class E cable specification</b> <b>3, Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.</b> <b>4,Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation.</b>	<b>3050.00</b>	<b>mtrs</b>
16	<b>Single mode 6 core OFC Cable</b> <b>Outside Plant Fiber Optic Cable, 6-fiber, OS2, HDPE, loose tube, gel-filled, Minimum Bend Radius, loaded 199.9 mm   7.9 in</b> <b>Minimum Bend Radius, unloaded 160.0 mm   6.3 in Tensile Load, long term, maximum 1250 N   281 lbf</b>	<b>600.00</b>	<b>mtrs</b>
17	<b>CAT6 fully loaded patch panel</b>	<b>5.00</b>	<b>nos</b>
18	<b>OFC 12-Port LIU</b>	<b>5.00</b>	<b>nos</b>
19	<b>10SFP 10-port Gigabit Managed SFP Switch</b>	<b>1.00</b>	<b>nos</b>
20	<b>SFP Gigabit module</b>	<b>10.00</b>	<b>nos</b>
21	<b>OFC patch chord LC-LC Duplex</b>	<b>10.00</b>	<b>nos</b>

22	OFC patch chord SC-LC Duplex	4.00	nos
23	CAT6 patch chord	60.00	nos
24	RJ45 Connector	100.00	nos
25	32/25 MM HD ISI Pipe	400.00	mtrs
26	25/32/MM PVC ISI Pipe/case and cap	1000.00	mtrs
27	GA Pole 3/inch 5.5/M	3.00	nos
28	Outdoor SINTEX Box	15.00	nos
29	Indoor PVC Box	45.00	nos
30	HDMI 5/M	2.00	nos
31	Digging soft soil as per site conditions	250.00	mtrs
32	Digging Hard soil(Tar, concrete cutting, floor tile cutting and re-paving tiles ) as per site conditions	100.00	mtrs
33	1KVA UPS with one hour back up	4.00	nos
34	Basic Electrical points 3+1 5amp	5.00	nos

## **6. Covering letter to Technical bid:**

Date:

The Secretary,  
Attukal Temple Trust,  
Attukal,  
Trivandrum 695009.

Dear Sir,

Subject: Tender for supply, installation, Testing, Commissioning, of 60 nos IP camera with NVR based Closed Circuit Television Systems (CCTV) for the Attukal Bhagavathy Temple Trust, Trivandrum-reg.

We have read and examined all eligibility criteria, scope of work, technical specifications of CCTV equipment, all terms and conditions of tender document. We understand the eligibility criteria and instructions to the bidders.

Our company is eligible as per the eligibility criteria fixed by the Trust to participate in this tendering process and all proof /evidence for the eligibility is enclosed. Our CCTV equipment will meet the specifications mentioned in the tender document.

We submit our bids for Trust's consideration duly filled-in and complete in all respects according to the Performa. We offer our proposal for supply, installation, Testing, Commissioning, of 60 Nos IP camera with NVR based Closed Circuit Television Systems (CCTV) for the Temple.

If our bid/proposal is accepted, we will supply and install 60 Nos IP camera with NVR based Closed Circuit Television Systems (CCTV) as per the specifications mentioned in the tender document. We also undertake to maintain the equipment supplied by us for a period of 6 years. We follow all the terms and conditions, time frames and payment terms of the Trust as mentioned in the tender document. We undertake to observe all laws, statutory compliance, labour laws etc during the execution of the contract.

We further understand that pre-qualification and selection of the bidder will be in accordance with Trust's terms and conditions subject to the authority of the Temple Trust to alter or amend the same keeping in view of the exigencies of the work.

We once again confirm that our company is eligible as per the eligible criteria and all our equipment offered in this proposal meets the specifications mentioned in the tender document. We confirm that the information submitted by us in our Bid/Proposal is true and correct. We agree to abide by the Bid/ Proposal and the fees quoted therein.

We hereby acknowledge and unconditionally accept that Temple Trust may on its absolute discretion apply whatever criteria deemed appropriate in short listing and selection of the vendor.

We understand that you are not bound to accept the lowest, or any other Proposal, you may receive.

Yours faithfully,

(Signature of Authorized Official) Name:

Designation:

Seal of the company

## 7. **Letter of Consent**

This letter of consent is made on the \_\_\_\_\_ day of the month of \_\_\_\_\_ in the year 2019  
BETWEEN, Attukal Temple Trust of a body corporate constituted under the Indian Trust act represented  
by its duly constituted attorney(hereinafter referred to as the Temple Trust)on the ONEPART; and  
Shri \_\_\_\_\_(Here enter the name and address of the tenderer)  
(Hereinafter referred to as "the bounden") of the other part.

WHEREAS in response to the Notification No \_\_\_\_\_ Dated \_\_\_\_\_ the bounden has submitted to the Trust a  
tender for the \_\_\_\_\_ specified therein subject to the terms and conditions contained in the  
said tender; WHEREAS the bounden has also deposited with the Trust a sum of Rs \_\_\_\_\_  
as Earnest Money for the execution of the contract in case his tender is accepted by the Temple Trust.

Now THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:

1. In case the tender submitted by the bounden is accepted by the Temple Trust and the contract for Supply  
of \_\_\_\_\_ is awarded to the bounden, the  
bounden shall within \_\_\_\_\_ days of acceptance of his tender execute an agreement with the Temple  
Trust incorporating all the terms and conditions under which the Temple Trust accepts his tender.
2. In case the bounden fails to execute the agreement as aforesaid incorporating the terms and conditions  
governing the contract, the Temple Trust shall have power and authority to recover from the bounden any  
loss or damage caused to the Temple Trust by such deed as may be determined by the Temple Trust by  
appropriating the earnest money deposited by the bounden and if the earnest money is found to be  
inadequate the deficit amount may be recovered from the bounden and his properties movable and  
immovable in the manner hereinafter contained.

₹

3. All sums found due to the Temple Trust under or by virtue of this consent shall be recoverable from the bounden and his properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue and in such other manner as the Temple Trust may deem fit.

4.

In witness where of Shri./Smt. \_\_\_\_\_

(here enter the name and designation) for and on behalf of the Attukal Temple Trust

and Shri \_\_\_\_\_ the bounden have hereunto set their

hands the day and year shown against their respective signatures.

Signed by

The Secretary,

Attukal Bhagavathy Temple Trust,

Attukal, Trivandrum,

Kerala.

Date:

In the presence of witnesses: 1. \_\_\_\_\_

Witnesses: 2. \_\_\_\_\_

Signed by Shri \_\_\_\_\_

Date:

In the presence of witnesses:

1. \_\_\_\_\_

2. \_\_\_\_\_

## **8. Format for submission of Eligibility with Technical bid:**

Srno	Eligibility condition	Compliance
1.	Bidder should have an ISO Certification with a minimum of 5 years experience in commissioning of CCTV System at Nationalized Banks/Govt. Sectors/Temples by agencies having authorized dealership/OEM's of CCTV system. . The bidder should enclose manufacturer's authorization letter/dealership certificate from the Original Equipment Manufacturer (OEM's for the NVR & CCTV cameras).	
2.	The bidder should give Bank Guarantee for a value of 2% on contract value	
3.	Proof of registration with GST, and recent copies of the payment remittance as proof should be submitted.	
4.	The bidder/OEM should be having office and service centre in Trivandrum. The company should be having service network after sales within a radius of 10 kms from Temple. Proof of the same should be submitted.	
5.	The bidder should have sound technical support staff for attending to the CCTV complaints within 24 hours	
6.	The vendor should accommodate supply of quantities 25% more or less than the specified quantity in the tender document	
7.	The validity of the quote should be 90 days	
8.	The company should not be on black list of any PSU banks/Govt. organizations. Self declaration should be submitted by the authorized official of the company, to the effect	
9.	The company should have satisfactorily completed similar works during the last 3 years. Three similar works each costing not less than Rs.3 lakhs OR Two similar works costing not less than Rs.8 lakhs OR One similar works costing not less than Rs.10 lakhs	
10	Duly signed and sealed copy of the Tender form	
11	Agreement in Stamp paper Rs 200	



## **9. Commercial Bid:**

Date:

The Secretary,  
Attukal Temple Trust,  
Attukal,  
Trivandrum 695009

Dear Sir,

Sub: Commercial Bid.

We understand the eligibility criteria fixed for this bid and our company/firm meets all the eligibility criteria. We also understand the activities, scope of work which is to be carried out by us and specifications of the equipment to be supplied by us as per tender document during the execution of the work order. We also confirm that the specifications of our equipments offered to your Temple Trust under this tender are equivalent or higher than the specifications mentioned in the tender document.

We confirm that

1. The rates quoted for supply, installation, testing, commissioning, of 60 nos IP camera with NVR based Closed Circuit Television Systems (CCTV) are inclusive of all the charges, taxes i.e. Transportation, Engineer's Fee, TA/DA and any other expenses whatsoever.
2. We will not charge any additional amount except the rates quoted in the Commercial Bid to carry out the work as per work order placed on us for supply, installation, testing, commissioning, of NVR based Closed Circuit Television Systems (CCTV) for the above mentioned work.
3. The rates quoted shall be binding for twelve months from the date of awarding of the order and no increase whatsoever will be charged within one year.
4. We will raise the invoice after successful completion of supply, installation, testing, commissioning of 60 nos IP camera with NVR Closed Circuit Television Systems (CCTV) and we will not demand advance to execute the supply/work.
5. TDS can be deducted by the Temple Trust as per rules.

We will enter into an agreement with the Temple Trust for each supply/work placed on us for a period of 6 years (3 years warranty and 3 years AMC) covering all the terms and conditions mentioned in the tender document.

We understand that payment will be released by the Trust after successful completion of supply, installation, testing, commissioning of all the equipments as per the purchase/work orders and submission of a copy of installation report to the trust .

Yours faithfully,

(Signature of Authorized Official)/Name:

Designation:

Seal of the company