GOVERNMENT OF KERALA
POLICE DEPARTMENT
Vazhuthacaud, Thiruvananthapuram - 695010 Ph: 0471-2722566
Fax: 0471- 2722566
e-mail: aig2phq.pol@kerala.gov.in
www.keralapolice.gov.in

H5/2314/2026/PHQ Dated: 27/10/2026

e-Government Procurement (e-GP)
NOTICE INVITING TENDER

The State Police Chief, Kerala Police Department, Government of Kerala invites online bids from reputed manufacturers/ authorized dealers or reputed vendors for the **Supply, installation, Testing and commissioning of Lifts at Janamaithri Hall, Police Headquarters, Thiruvananthapuram.** The bidders should comply with the following general conditions in addition to the additional conditions of the instant tender.

General

1. The Bidder should be a reputed or authorized firm.
2. One bidder can not represent two suppliers/OEMs or quotes on their behalf in a particular tender.
3. The OEM/Bidder should have a well equipped service centre functioning in India (preferable in Kerala) to cater to immediately after sales requirement; copy of Service Centre details must be enclosed along with Tender document. (Preferably bidder should have a Service Centre in Kerala/South India).
4. A reputed vendor can participate in the tender provided the vending outfit is functioning in the market for at least 3 years.
5. The Bidder should have valid GST registration. Copy of GST registration certificate should be enclosed along with the tender.

6. The bidder should have valid PAN/Taxation Index Number. Copy of PAN/Taxation Index Number allocation letter should be enclosed along with the tender.
7. The Bidder must fulfil the following minimum qualification criteria to prove the techno-commercial competence and submit the documents in support thereof:

    a). Certificate of Registration/Incorporation Certificate of the Bidder.

    b). Last 3 year's financial status of the Bidder's/P&L and Balance Sheet/audit report of last 3 years.

    c). The bidder (authorized dealer/distributor) should have the dealership/distributionship for at least 3 (three) continuous consecutive years with the OEM.

    d). The Bidder has to submit a letter specifying the warranty period.

    e). The bidder should have valid license/authorisation for supply, installation and servicing of Lift and participating in the tender.

1	Tender No. & Date	KPET/49/2026/PHQ Dated 27.10.2026
2	Item	**Supply, installation, Testing and commissioning of Lifts at Janamaithri Hall, Police Headquarters, Thiruvananthapuram**
3	Quantity	2 Nos.
4	Estimated Amount	**Rs. 60.91 Lakh**
5	Tender Fees (through online mode only)	Rs. 11,500/- (Rupees Eleven thousand and five hundred only) (GST extra) GST amount on tender fees mentioned above shall be paid to GST Department directly by the bidder.
6	Earnest Money Deposit (through online mode only)	Rs. 60,910/- (Rupees Sixty thousand nine hundred and ten only)

7	Specifications	Attached in tender document
8	Date and time of publication of e-Tender	27/10/2026, 06:00 PM
9	Date of submission of e-Tender	27/10/2026, 06:00 PM To 09/11/2026,12:00 NOON
10	Last date and time for online submission of e-tender	**09/11/2026, 12:00 NOON**
11	Date and time of opening of e-Tender	10/11/2026, 3:00 PM
12	Place of opening	Police Headquarters, Thiruvananthapuram
13	Date, Time and Place of technical evaluation cum document verification	**Will be intimated later**
14	Bid Validity (Total Number of Days up to which the rates are to be firm)	180 days
15	Warranty and CAMC	Three (3) years comprehensive warranty/free maintenance shall be provided from the date of commissioning. CAMC charges for a further period of 7 years after expiry of the warranty period to be quoted.
16	Address of Tender Inviting Authority	State Police Chief, Kerala, Vazhuthacaud, Thiruvananthapuram - 695010 Ph: 0471-2722566 Mobile No. 9497996998 Fax: 0471-2722566 e-mail: aig2phq.pol@kerala.gov.in Website: www.keralapolice.gov.in

8. Mode of submission of bids: - Online. All Bid documents shall be submitted only in online procedure through the e-GP website www.etenders.kerala.gov.in in

their designated online covers. Details of covers are given separately. No other mode of submission shall be accepted and such tenders will be rejected outright.

9. Cover details: - No. of covers - 2. i) Technical Bid ii) Financial Bid. The AMC/ATS after warranty period also to be quoted in the Financial Bid. In the case of Foreign Equipments, the rate must be quoted in Indian Rupees. The documents to be uploaded under each online covers are specified in the website.

10. Downloading of e-Tender documents: - The tender document can be downloaded from the e-GP website www.etenders.kerala.gov.in from the date and time of publication of e-tender onwards to last date and time for online submission of e-tender**.** Downloading of tender documents will not be possible after the date specified above.

11. Submission of e-Tender documents: - The digitally signed tender document and other specified documents shall be submitted online through the e-GP website www.etenders.kerala.gov.in well in advance before the last date and time mentioned above. No submission shall be allowed after the last date mentioned above.

12. Payment of Tender Fees: - A non-refundable tender fee shall be paid in online mode through the e-GP website www.etenders.kerala.gov.in at the time of bid submission. No other mode of payment shall be accepted. **THE TENDERS OF BIDDERS WHO DO NOT REMIT FEES THROUGH ONLINE WILL BE REJECTED OUTRIGHT.**

13. Payment of Earnest Money Deposit (EMD): - The EMD shall be paid in online mode through the e-GP website www.etenders.kerala.gov.in at the time of bid submission. No other mode of remittance shall be accepted.

14. Exemption from payment of EMD: - Bidders who are registered with Store Purchase Department, Kerala or National Small Scale Industries Corporation Ltd., New Delhi (for the items tendered) are exempted from submission of EMD. Those bidders claiming exemption shall submit valid registration certificate from the SPD, Kerala or NSSIC, New Delhi.

Tenders of bidders who do not remit EMD online or do not upload documental proof (digitally signed) for exemption of EMD will be rejected outright.

15. **Withdrawal and re-submission of e-Tender: -** The Bidders are at liberty to withdraw the submitted tender/documents and to submit fresh tender/documents till the last date and time of submission of the e-Tender after which withdrawal/re-submission will not be allowed.

16. Opening of e-Tenders: - The bids shall be opened online through the e-GP website www.etenders.kerala.gov.in at the Police Headquarters, Vazhuthacaud, Thiruvananthapuram on the date and time mentioned above in the presence of the Bidders/ authorized representatives who wish to attend at the above address. If the tender opening date happens to be a holiday or non-working day due to any valid reason, the tender opening process will be done on the next working day at the same time and place specified. Any change in the opening date/time/venue due to other reasons shall be informed by way of Corrigendum published in the e-GP website. The Technical Bids will be evaluated by a Technical Evaluation Committee and those that do not conform to the specifications or to the satisfaction of the Committee will be rejected. The financial bids of the Technically qualified Tenderers only will be considered for opening. The date of opening of financial Bids will be intimated to the

concerned technically qualified tenderers, over phone/Fax/e-mail. This will be with in 7 to 10 days of evaluation of technical bid.

17. Technical Evaluation: - All tenderers who quote for the supply of above weapons are required a test fire. **Date of technical evaluation cum document verification will be intimated later.**

18. All Bidders who participates in e-tender should produce hard copies of all relevant documents related to e tender at the time of technical evaluation, without fail.

19. Note to Bidders:

i) Bidders have to procure legally valid Digital Certificate (Class III) as per Information Technology Act, 2000 for digitally signing their electronic bids. Bidders can procure the same from any of the license certifying authority of India. For more details, please visit the e-GP website www.etenders.kerala.gov.in**.**

ii) Bidders are advised to note the Tender_Id and Tender No. & Date for future reference.

iii) All uploaded documents should contain the signature and the office seal of the bidder/ authorized persons and should be digitally signed while uploading. Documents uploaded without digitally signing shall entitle rejection of the tender.

iv) In the case of Foreign Equipments, the rate should be quoted in Indian Rupees. Preference will be given to those who are ready to supply the item without opening Letter of Credit. Ordinarily, no advance payment will be made for procuring the above item. In case advance payment has to be made, a clear case has to be made out by the Tenderee. However this will be only on extraordinary circumstances.

v). For obtaining Digital Signature Certificate and help on e-tendering process,

contact Kerala State IT Mission, e-Government Procurement PMU & Helpdesk, Basement floor of Pension Treasury Building, Uppalam Road, Statue, Thiruvananthapuram; Ph: 0471-2577088, 2577188; Toll free no: 18002337315; e-mail:etendershelp@kerala.gov.in; Website: www.etenders.kerala.gov.in on all government working days from 9:30 am to 5:30 pm.

vi) The State Police chief is empowered to reject any tender without assigning any reason.

vii) For any clarifications regarding the terms and conditions in this tender notice or the tender document, please contact Additional Asst. Inspector General of Police, OR Senior Superintendent H Branch, Police Headquarters,

Vazhuthacaud, Thiruvananthapuram – 10 on all Government working days from 10:30 am to 5:00 pm. Ph:0471-2721547 Fax: 0471-2726945

viii) **Bidders who are using Internet Banking are requested to make online payment 72 hours in advance.**

NOTE: - BIDDERS ARE ADVISED TO GO THROUGH THE CONDITIONS IN THE NOTICE INVITING TENDER AND THE TENDER DOCUMENT CAREFULLY AND COMPLY THEM TO AVOID OUTRIGHT REJECTION OF THEIR TENDER.

For any litigation relating to this order, the jurisdiction will be Thiruvananthapuram City.

Sd/-
Assistant Inspector General of Police, Procurement
For DIRECTOR GENERAL OF POLICE &
STATE POLICE CHIEF, KERALA

Digitally signed by SHIBI K
Date: 2026.10.27 14:50:17 IST
Location: Kerala-KL

eTendering System Government of Kerala

Kerala Tenders

Tender Details

Date : 27-Oct-2026 03:35 PM

Print

Basic Details

Organisation Chain	Kerala Police||Police Headquarters		
Tender Reference Number	KPET/49/2026/PHQ		
Tender ID	2026_KP_882882_1	**Withdrawal Allowed**	Yes
Tender Type	Open Tender	**Form of contract**	Item Rate
Tender Category	Works	**No. of Covers**	2
General Technical Evaluation Allowed	No	**ItemWise Technical Evaluation Allowed**	No
Payment Mode	Online	**Is Multi Currency Allowed For BOQ**	No
Is Multi Currency Allowed For Fee	No	**Allow Two Stage Bidding**	No

Payment Instruments

	S.No	Bank Name
Online Bankers	1	SBI MOPS

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Scanned copy of agreement executed on Kerala Stamp paper Rs. 200 duly signed and sealed in all pages
		.pdf	Scanned copy of Tender document duly signed and sealed in all pages
		.pdf	Brochures of the item quoted and conditions of supply if any
		.pdf	Copies of other document required in the Notice Inviting Tender and scope of work
2	Finance	.xls	Financial Bid
		.pdf	Year wise CAMC charges for a period of 7 years after expiry of the warranty period to be quoted

Other Important Documents

S.No	Category	Sub Category	Sub Category Description	Format/File
1	Certificate Details	Permanent Account Number	Permanent Account Number	
2	Certificate Details	Registration Certificate	Registration Certificate	
3	Certificate Details	Income Tax Certificate	Income Tax Certificate	
4	Certificate Details	Power of Attorney	Power of Attorney	
5	Certificate Details	Affidavit regarding correctness of bid	Required in tender document in bidder file 1	
6	Certificate Details	Excise registration Number	Excise registration Number	
7	Certificate Details	Service tax registration No	Service tax registration No	

8	Certificate Details	GST Certificate	GST Certificate	
9	Financial Details	Bankers Details	Bankers Details	
10	Financial Details	Annual Turn over certificates from CA	Annual Turn over certificates from CA	
11	Financial Details	B23. P/L and Balance Sheet 2022-2023	P/L and Balance Sheet 2022-2023	
12	Financial Details	B24 P/L and Balance Sheet 2023-2024	P/L and Balance Sheet 2023-2024	
13	Financial Details	B25. P/L and Balance Sheet 2024-2025	P/L and Balance Sheet 2024-2025	
14	Miscellaneous	Work Completed Certificate Copies	Work Completed Certificate Copies	
15	Miscellaneous	Company profile	Company profile	
16	Work Details	Works Completed Details	Works Completed Details	
17	Work Details	Quantity of Work Done Details	Quantity of Work Done Details	

Tender Fee Details, [Total Fee in ₹ * - 13,034]

Tender Fee in ₹	11,500		
Processing Fee in ₹ (18.00% GST Incl.)	1,534		
Fee Payable To	Nil	**Fee Payable At**	Nil
Tender Fee Exemption Allowed	Yes		

EMD Fee Details

EMD Amount in ₹	60,910	**EMD Exemption Allowed**	Yes
EMD Fee Type	fixed	**EMD Percentage**	NA
EMD Payable To	Nil	**EMD Payable At**	Nil

Click to view modification history

Work /Item(s)

Title	Supply, installation, Testing and commissioning of Lifts at Janamaithri Hall, Police Headquarters, Thiruvananthapuram				
Work Description	Supply, installation, Testing and commissioning of Lifts at Janamaithri Hall, Police Headquarters, Thiruvananthapuram				
Pre Qualification Details	Refer Notice Inviting Tender and scope of work				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	Yes				
Tender Value in ₹	60,91,100	**Product Category**	Miscellaneous Works	**Sub category**	Supply and installation of Lift
Contract Type	Tender	**Bid Validity(Days)**	180	**Period Of Work(Days)**	60
Location	Thiruvananthapuram	**Pincode**	695010	**Pre Bid Meeting Place**	NA
Pre Bid Meeting Address	NA	**Pre Bid Meeting Date**	NA	**Bid Opening Place**	Police Headquarters Thiruvananthapuram
Should Allow NDA Tender	No	**Allow Preferential Bidder**	No		
Tenderer Class	Not Applicable				

Critical Dates

Publish Date	27-Oct-2026 06:00 PM	**Bid Opening Date**	10-Nov-2026 03:00 PM
Document Download / Sale Start Date	27-Oct-2026 06:00 PM	**Document Download / Sale End Date**	09-Nov-2026 12:58 PM
Clarification Start Date	NA	**Clarification End Date**	NA
Bid Submission Start Date	27-Oct-2026 06:00 PM	**Bid Submission End Date**	09-Nov-2026 12:00 PM

Tender Documents

NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf	Notice Inviting Tender	436.28

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	Tender Documents	Generalconditions.pdf	Tender Document, General onditions, format for agreement etc	272.08

	2	Other Document	Scopeandspecification.pdf	Scope of work and specification	492.81
	3	BOQ	BOQ_1503160.xls	Financial Bid	59.00

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sekharpramod@gmail.com	PRAMOD S	PRAMOD S
2.	sastha@gmail.com	SASTHA RAJ R	SASTHA RAJ R
3.	shibikshibi0@gmail.com	SHIBI K	SHIBI K

Tender Properties

Auto Tendering Process allowed	No	**Show Technical bid status**	Yes
Show Finance bid status	Yes	**Stage to disclose Bid Details in Public Domain**	Technical Bid Opening
BoQ Comparative Chart model	Normal	**BoQ Compartive chart decimal places**	2
BoQ Comparative Chart Rank Type	H	**Form Based BoQ**	No

Tender Inviting Authority

Name	DGP and State Police Chief Keralam
Address	Police Headqaurters Vazhuthacaud Thiruvananthapuram Kerala

Tender Creator Details

Created By	SHIBI K
Designation	Senior Superintendent
Created Date	27-Oct-2026 02:55 PM

Supply, installation, testing and commissioning of 2 Nos. Lifts at Janamaithri Hall, Police Headquarters (PHQ), TVPM

Scope of work:

The scope of work includes supply, installation, testing and commissioning of new lifts including provisions for dismantling and buy back of the existing lifts.

Replacement of the existing Lifts

The Janamaithri Building at PHQ is equipped with two passenger lifts (AE 179 and AE 178) that have become obsolete due to prolonged usage. The lifts now require frequent maintenance and repairs, resulting in recurring operational disruptions. Furthermore, the non-availability of spare parts has made their upkeep increasingly difficult and uneconomical.

Considering the operational requirements, passenger safety, the age and deteriorating condition of the lifts, the difficulty in procuring spare parts, and the long-term maintenance implications, it has become necessary to replace the existing lifts with new, modern passenger lifts to ensure safe, reliable, and uninterrupted service.

The successful bidder shall dismantle and remove the existing lifts and shall quote the buy-back value of the old lifts in the Financial Bid (BOQ).

The details of the existing lifts are furnished below:

Lift No. 1

Make	-- Axis Elevators & Escalators
Serial number/ID	-- AE 179
Type of Control	-- V3F
Capacity	-- 8 Persons

Lift No. 2

Make	-- Axis Elevators & Escalators
Serial number/ID	-- AE 178
Type of Control	-- V3F
Capacity	-- 8 Persons

TECHNICAL CONFIGURATION OF LIFT

SL No	Parameter	Requirement
1	Type	Passenger Lift
2	Capacity	680 kg / 10 Persons
3	Rated Speed	1.75 m/s
4	No. of Stops	10
5	No. of Openings	10
6	Service	Basement + Ground + 8 Floors
7	Travel	Approximately 27 m
8	Drive Motor	Gearless PMSM
9	Arrangement	Machine Room Less (MRL)
10	Door	Automatic Centre Opening
11	Door Size	800 × 2000 mm
12	Control	Duplex Selective Collective
13	Cabin	Approximately 1450 × 1200 mm, subject to site feasibility
14	Car Enclosure	Stainless Steel 304 grade
15	Available Shaft	Approximately 1900 × 1900 mm
16	Pit Depth	Approximately 1600 mm, subject to site verification
17	Safety	As per applicable statutory requirements and relevant standards
18	Emergency Features	ARD, emergency lighting, alarm, intercom etc.
19	Door Safety	Infrared/full-height door protection
20	Protection	Overload, overspeed protection, safety gear, UCMP etc.
21	Fire Safety	Fireman's switch/operation as applicable
22	Drive/Control	VVVF/VFD with suitable power quality and harmonic provisions
23	CCTV	Provision/interface for CCTV integration
24	Testing	Statutory testing, inspection, commissioning and handing over

SITE VERIFICATION AND DRAWINGS

The selected agency shall verify the site dimensions and existing conditions before commencement of manufacture/fabrication.

General Arrangement (GA) drawings, shaft details, cabin dimensions, landing arrangements, electrical requirements and other relevant shop drawings shall be submitted for approval before commencement of manufacture/installation.

No deviation from the approved site dimensions or technical requirements shall be made without prior approval of the competent authority.

The agency shall also be responsible for ensuring that the proposed lift equipment and associated installations are compatible with the actual site conditions.

SCOPE OF CIVIL, ELECTRICAL AND ASSOCIATED WORKS

The scope of work shall include all civil, electrical, lift-related, architrave/finishing and other incidental works necessary for proper dismantling, installation, testing, commissioning and handing over of the lifts. The following works shall form part of the scope of the selected bidder/agency:

Dismantling and Removal of Existing Lifts

1. Dismantling and removal of the existing two passenger lifts, including all lift machinery, control equipment, car, doors, electrical connections and other associated lift components, as required for installation of the new lifts.
2. The dismantling work shall be carried out carefully and systematically without causing damage to the existing building structure or other services.
3. Necessary disconnection and isolation of existing electrical connections associated with the lifts shall be carried out in coordination with the competent Engineers.
4. All dismantled materials and debris arising from the dismantling and associated works shall be safely removed from the site by the agency.

Electrical Works

The bidder shall execute all electrical works necessary for safe and satisfactory operation of the lifts, including:

1. Required electrical power supply arrangements.
2. Cabling and associated accessories.
3. Suitable isolators, protective devices and control arrangements.
4. Earthing and bonding arrangements.

5. Necessary electrical connections between the lift equipment and building electrical system.
6. Required provisions for emergency systems.
7. Testing of all electrical installations associated with the lifts.
8. Any other electrical work required for successful installation, testing and commissioning of the lifts.
9. The electrical works shall comply with applicable electrical safety requirements and relevant standards.

RESPONSIBILITY OF THE SELECTED AGENCY

The selected agency shall be responsible for:

1. Site verification and measurements.
2. Preparation and submission of necessary GA/shop drawings.
3. Dismantling and removal of the existing lifts.
4. Safe transportation and handling of lift equipment and materials.
5. Supply and installation of the new lifts.
6. Execution of all associated civil and electrical works included in the approved scope.
7. Testing, statutory inspection and commissioning.
8. Obtaining all required statutory approvals/certificates.
9. Removal of debris and surplus materials from the site.
10. Making good and restoration of all areas affected by the execution of the works.
11. Submission of test certificates, drawings, manuals and other documents required for handing over.
12. Handing over the complete lift installation in safe and fully operational condition.
13. No additional claim shall be admissible for works which are necessary for proper installation, testing and commissioning of the lifts and which are reasonably incidental to the approved scope of work.

Warranty and Comprehensive Annual Maintenance Contract (CAMC)

The existing two passenger lifts shall be carefully dismantled and taken back by the lift agency. The lift installation shall be covered by a **Warranty for a period of 3 years from the date of taking over**, during which period the lift installer shall provide CMC free of cost, including monthly servicing. The tenderer shall also quote **CAMC charges for a further**

period of 7 years after expiry of the warranty period. The CAMC shall cover all items forming an integral part of the lift.

All complaints, other than replacement of the main drive motor and VFD, shall be attended to and rectified within **4 hours** of reporting, while replacement of major components such as the main drive motor and VFD shall be completed within **48 hours** of reporting. The agency shall maintain a local maintenance team and adequate stock of spares for immediate replacement.

PAYMENT TERMS AND CONDITIONS

"Payment will be released only after the successful completion of supply, installation, configuration and commissioning of the project. Request for **advance payment,** if any, will be considered as per rules, on request from the supplier and against submission of a valid Bank Guarantee".

CIVIL WORKS

Replacement of Existing Two Passenger Lifts at Janamaithri Building, Police Headquarters, Thiruvananthapuram

SL No.	Description of Civil Work
1	Dismantling of tile work in floors and roofs laid in cement mortar, including stacking of materials within 50 m lead; tile thickness above 25 mm and up to 40 mm.
2	Demolishing brickwork manually/by mechanical means, including stacking of serviceable material and disposal of unserviceable material within 50 m lead, in cement mortar.
3	Dismantling old plaster/skirting, raking out joints and cleaning the surface for plaster, including disposal of rubbish to the dumping ground within 50 m lead.
4	Providing 12 mm cement plaster of mix 1:4 (1 cement: 4 fine/coarse sand), as applicable to the approved estimate and site requirement.
5	Providing polished stone granite wall lining over 12 mm thick cement mortar bed of mix 1:3, including cement slurry, white-cement pointing and complete finishing, using granite of approved colour and shade.
6	Providing edge moulding to 18 mm thick granite stone work, including machine polishing of edges to give high-gloss finish, complete as per design approved by the Engineer-in-Charge.
7	Providing wall painting with premium acrylic emulsion paint of interior grade, including application of additional coats wherever required to achieve an even finish.

8	Providing steel reinforcement for RCC work, including straightening, cutting, bending, placing in position and binding complete, using thermo-mechanically treated bars of grade Fe-500D or higher.
9	Providing centering and shuttering, including strutting and removal of formwork, for foundations, footings, bases of columns and similar mass-concrete works, as required.
10	Providing and laying cement concrete of specified grade up to plinth level, excluding centering and shuttering, with cement, coarse sand and graded 20 mm aggregate, as specified in the approved estimate.
11	Providing associated minor civil works, restoration and making good of affected surfaces arising out of the above works, wherever required for completion of the project.

ELECTRICAL WORKS

SL No.	Description of Electrical Work
1	Supplying and drawing 2 × 2.5 sq.mm FRLS PVC-insulated copper single-core conductors in existing surface/recessed steel/PVC conduit, as required.
2	Supplying and drawing 3 × 1.5 sq.mm FRLS PVC-insulated copper single-core conductors in existing surface/recessed steel/PVC conduit, as required.
3	Supplying and fixing 20 mm medium-class PVC conduit with accessories in surface/recess, including cutting of walls and making good in the case of recessed conduit, as required.
4	Supplying and fixing 3-pin, 5 Amp ceiling rose on existing junction box/wooden block, including connections, as required.
5	Supply, installation, testing and commissioning of 10 W LED die-cast aluminium housing bulkhead fitting, IP65, complete with accessories, electrical connections and fixing materials required.
6	Supply and installation of 20 W LED tube light of department-approved make, as instructed by the Engineer-in-Charge.

Electrical Works – General Conditions

1. All electrical works shall be carried out as per the approved estimate/BOQ, applicable standards and the directions of the Engineer-in-Charge.

1) Existing wiring and fittings proposed for rearrangement shall be handled carefully and tested after completion.
2) All wiring, conduit, accessories, fittings and connections shall be properly installed, tested and commissioned.

3) Any wall/ceiling openings made for the electrical work shall be properly made good after completion.

4) Quantities in the approved BOQ shall govern payment, subject to actual measurement and certification and the conditions of the tender.

DETAILED TECHNICAL SPECIFICATIONS

A. Design, supply, conveyance, installation, testing and commissioning of 10-passenger capacity, gearless, MRL type passenger lift as per the following detailed technical specifications, including obtaining approvals from all statutory bodies (the statutory fees will be reimbursed on production of original copies of remittance challans):

SL No	Particulars	Compliance
1	Compliance to Standards (The latest version of the Standards/ amendments published till the date of submission of tender will be applicable)	5) IS 17900 (all parts) 6) IS 14665 (part 5) 7) IS 17505 8) IS 17515 9) IS 17518 10) IS 17106 11) IS 17615 12) IS 15330 13) IS 3043 14) IS 732 15) NBSC 16) NEC 17) Kerala Lift Act 18) CPWD Specifications 19) Any other relevant Standards/ Rules/ Regulations published before the submission of the tender
2	Type of lift	Passenger lift
3	Capacity	10 passenger/ 680 kg
4	Speed (m/s)	1.75 m/s
5	Travel (m)	27 m
6	Number of stops and number of openings.	10 stops and 10 openings. All openings on the same side
7	Floor coverage	Basement + Ground + 8 floors
8	Size of available lift well	1900 mm x 1900 mm

9	Available pit depth	1600 mm
10	Car details:	1. The size of the cabin shall be 1450 x 1200 mm. 2. A power-operated, centre-opening door of size 800 x 2000 mm shall be provided. 3. Car enclosure shall be fabricated from 1.20 mm (minimum) thick 304 grade SS 4. The front and side panels of the car enclosure shall be of linen finish 5. Mirror finish 304 SS shall be provided for the rear panels of the car enclosure 6. Matt finish SS 304 grade handrails of minimum 32 mm dia shall be provided on 3 sides of the car 7. Car body shall be fabricated from structural steel conforming to IS 700 8. Flooring shall be with granite slabs with minimum thickness of 17 mm 9. Ceiling of the car shall be fabricated using 1.00 mm hairline finish 304 grade SS. 10. The car shall be provided with recessed type LED luminaires having CCT of ≤5700ºK, CRI ≥85%, 11. A minimum illumination level of 150 lux shall be maintained inside the car. 12. A ventilating fan of appropriate size as per Standards shall be installed in the ceiling 13. Control for the fan and lights shall be so designed that they will automatically switch OFF when not in operation and shall automatically switch ON when in use 14. A battery-operated emergency lamp shall be provided inside the car, maintaining 20 lux inside the car in the event of power failure. 15. Car door shall be of a minimum 60 min fire rating.
11	Landing doors	1. Power-operated, centre-opening landing doors shall be manufactured using linen-finish 304 grade SS. 2. Landing doors shall be of a minimum 60 Min fire rating.
12	Indication panels	5. Floor position indicators shall be installed at all landings and inside the car. 6. The push buttons shall have Braille inscriptions 7. A floor position indicator at the top level inside the car shall be provided

13	Type of control	Duplex selective control with or without attendant.
14	Automatic Rescue Device (ARD)	1. An appropriately rated ARD shall be an integral part of the lift conforming to Cl. 5.12.3.3 of IS 17900 Part 1 2. The doors shall close smoothly when the ARD is in operation 3. The battery backup for the ARD system shall be adequate for 5 consecutive operations continuously.
15	Counterweight & balancing weight	The counterweights and balancing weights shall be installed in accordance with the relevant clauses of IS 17900 Part 1.
16	Suspension system	The suspension system, including the rope, pulley, sheaves, etc., shall conform to the requirements of IS 17900.
17	Guiderails	The guiderails shall satisfy all requirements according to IS 17900.
18	Travelling cable	1. It shall satisfy all the requirements according to IS 17900 2. It shall be suitable to connect an intercom system and a CCTV system
19	Main electric drive motors	The motors shall be PMSM type with high efficiency, suitable for operation with V3F drives, and, in operation with the associated system, maintain a minimum efficiency level of class D or above according to IS 17515.
20	Variable frequency drive	1. The VFD shall comply with the latest power quality requirements of IEEE 519 2. THD at full load shall not be greater than 5% 3. They shall conform to the latest EMC/ EMI requirements.
21	Energy efficiency rating of the lift	1. EE rating of the lifts shall be class D or better according to IS 17515. 2. The vendor shall conduct on-site tests to establish the EE rating
22	Communication system	The lift shall be provided with an intercom facility with the required telephone instruments - one inside the car, and another in the reception or other area as required by the authority

23	CCTV camera	Provision to install a CCTV camera inside the car.
24	Safeties	1. Overspeed governor 2. Final limit switches 3. Ascending Car Overspeed Protection (ACOP) 4. Unintended Car Movement Protection (UCMP) 5. Infrared curtain for the entire height of the door, complying with current standards. 6. Overload indicator with alarm 7. Fireman's switch. (for one lift dedicated for firemen's use) 8. Ensure that all the safety requirements for lift installation in high-rise buildings as per the latest IS 17900, NBCS, and all relevant Standards as on the date of submission of tender are complied.
25	Announcement	A standard announcement system shall be provided in the lift car
26	Supporting structure	All supporting structures for mounting machines, panel boards, and control devices shall be provided
27	Minor civil works	The lift vendor shall carry out all required minor civil works, such as constructing new buffer blocks after demolishing the existing ones including removal of debris, cutting pockets for fixing guide rails and control devices, and all other works for the satisfactory installation of the lift.
28	Testing	All performance, load, electrical and operational verifications, advanced protection systems, tests according to IS 17900, shall be performed.
28	Dismantling the existing lift	The existing lifts shall be carefully dismantled, stored, and taken back by the vendor under the buyback system
B	Rewiring the electrical installation inside the shafts and providing LED bulkhead fittings of 10W or above, and 6A plug points on all floors in conformity with IS 732, NEC, NBCS, etc., using 20 mm rigid PVC conduits, 1.50 Sq mm FRLS wire, modular type accessories, metallic switch boxes with front plates, replacing the DB with accessories, installing earth leakage protection devices as per standards, giving earth connections, etc., as required.	
C.		

	Providing and fixing 18 mm or nearest available thick gang saw cut, mirror polished, pre-moulded and pre-polished, machine cut jet black granite for architraves for the lifts at all landings using good quality adhesive after dismantling the existing architraves, including rubbing, curing, moulding and polishing of edges to give high gloss finish, etc., complete at all levels.
D	Dismantling and taking the existing 2 Nos lifts with all components

TECHNICAL SUBMITTAL FOR LIFTS
(A separate document shall be submitted for each type and capacity of lift in the same format)

3. GENERAL

Name of Project	
Make of the lift (Brand)	
Details of the manufacturer	
Year of inception of the manufacturing firm	
Standards to be complied with (The latest version of the Standards as of the date of submission will be applicable)	**16. IS 17900 (all parts)** **17. IS 14665 (part 5)** **18. IS 17505** **19. IS 17515** **20. IS 17518** **21. IS 17106** **22. IS 17615** **23. IS 15330** **24. IS 3043** **25. IS 732** **26. NBSC** **27. NEC** **28. Kerala Lift Act** **29. CPWD Specifications**

4. SITE CONDITIONS

Location of installation	Police headquarters, Thiruvananthapuram, Kerala State, India
Ambient Climatic Conditions	
Peak temperature	36°C
Relative humidity	100%
Altitude	< 1000 m
Electrical supply conditions	
Voltage	415 V ± 6%
Frequency	50 Hz ± 0.50 Hz (Or as per the latest CEA regulations/ Kerala Electricity Supply Code)

5. FORMAT FOR TECHNICAL SUBMITTAL

A	**Constructional details of the car**	

1	**Dimensions**	
1.01	Clear internal dimensions	
1.02	Does the net available inside area match the requirements specified in Table 6 of IS 17900 part 1 for passenger lifts and Table 7 of IS 17900 part 1 for goods lifts?	
1.03	Overall external dimensions	
1.04	Overall weight of the car, including all attachments & accessories.	
2	**Car body structure.**	
2.01	Details of MS sections	
2.02	Arrangement of sections	
2.03	Welding/bolting arrangements	
2.04	Painting process	
2.05	Make of MS	
2.06	Does the structural steel meet the requirements specified in IS: 800?	
2.07	Other details, if any	
3	**Car body enclosure**	
3.01	SS grade used	
3.02	The thickness of the SS used for the side panel	
3.03	The thickness of the SS used for the rear panel	
3.04	The thickness of the SS used for the ceiling	
3.05	Method of fabrication – welded/ bolted	
3.06	Does the car roof satisfy the requirements of Cl 5.4.7 of IS 17900 Part 1?	
3.07	Is the car provided with handrails?	
3.08	Sides on which the handrail is provided	
3.09	Material of construction of the handrail	
3.10	Dimensions of handrail (diameter, thickness, length on each side, finish, etc.)	
3.11	Are the materials used for the car door, floor, wall & ceiling & other decorative materials, if any, difficult to ignite and meet the requirements of at least class 2 products as per IS 12777?	
3.12	Fire rating of the car (if any) (Attach valid test certificates)	
3.13	Can the rear panels of the car be made with mirror-finish SS?	
4	**Car door**	

4.01	Number of panels	
4.02	Thickness of the SS used	
4.03	Grade of SS used	
4.04	Type of opening (Centre/ telescopic)	
4.05	Clear width of opening (mm)	
4.06	Clear height of opening (mm)	
4.07	Is the car door 60 minute fire rated?	
5	**Flooring**	
5.01	Material for flooring	
5.02	Thickness of flooring	
5.03	Type of construction proposed to maintain the anti-skid feature	
6	**Lighting**	
6.01	Does the lighting in the car satisfy the requirements specified in Cl. 5.4.10 of IS 17900 part 1?	
6.02	The level of illumination maintained inside the car	
6.03	Type of light fitting proposed	
6.04	Make & Model No.	
6.05	Wattage of each light fitting	
6.06	Number of light fixtures proposed	
6.07	Mounting arrangements	
6.08	Efficacy of the light fixture (Shall not be less than 90 lm/W)	
6.09	Details of emergency lights provided	
7	**Landing Doors**	
7.01	Number of panels	
7.02	Thickness of SS used	
7.03	Grade of SS used	
7.04	Type of opening (Centre/ telescopic)	
7.05	Clear width of opening (mm)	
7.06	Clear height of opening (mm)	
7.07	Will the sills conforming to Clause 5.7.2.3.6 of IS 17900, Part 1, be installed?	
7.08	Does the mechanical strength satisfy the requirements of Cl 5.3.5.3 of IS 17900 Part 1?	
7.09	Does the landing door have a fire rating of one hour as specified in Cl. 5.12.5.1.5 of IS 17900 Part 1? (Attach a valid certificate)	
8	**Counterweight & balancing weight**	
8.01	Will the counterweights and balancing weights be installed in accordance with the relevant clauses of IS 17900 Part 1?	
9	**Suspension system**	
9.01	Make of the suspension rope	

9.02	Nominal diameter of the rope (minimum 8 mm)	
9.03	Constructional details of the rope	
9.04	Number of ropes in the suspension system	
9.05	Do the tensile strength and other characteristics meet the requirements specified in Annex H of IS 17900 Part 1?	
9.06	Is the safety factor, according to Cl. 5.5.2.2, taken into account for the design of the suspension rope? If so, furnish the value of the safety factor.	
9.07	Details of the pulley system	
9.08	Details of hooks, if any	
9.09	Details of supporting structure for mounting the main drive motor	
9.10	Does the protection of sheaves and pulleys provided as detailed in Table 10 of IS 17900 part 1?	
10	**Guiderails**	
10.01	Do the proposed guide rails satisfy the requirements of Cl 5.7 of IS 17900 Part 1 or ISO 7465?	
10.02	Make & model of guiderail	
10.03	Dimensions of the guiderail	
10.04	Weight/m of the guiderail	
10.05	Does it satisfy the requirements of IS 800?	
10.06	Method used for the calculation of the size of the guiderail (5.10 of IS 17900 (Part 2)/ IS 800/ Finite element method. Furnish the design details	
10.07	Mounting arrangement of the guiderails.	
10.08	Furnish the details of the mounting brackets for the guiderails	
11	**Buffers for the car and counterweight**	
11.01	Do the proposed buffers satisfy the requirements of Cl 5.8 of IS 17900 Part 1?	
11.02	Type of buffer for the car	
11.03	Make and model of the buffer for the car	
11.0	Is the buffer for car energy-	

4	dissipating type?	
11.05	If an energy dissipating type is proposed, does it satisfy the requirements specified in Cl 5.8.2.2.3 of IS 17900 Part 1?	
11.06	Make and model of the buffer for the counterweight	
11.07	Furnish the full technical details of the buffers for the car and the counterweight	
12	**Travelling cable**	
12.01	Make of cable	
12.02	Compliance to Standards	
12.02	Type of construction (Specify whether flat and with braided construction)	
12.03	Insulating material	
12.04	Insulation level of the cable (V)	
12.05	Number of cores	
12.06	Number of cores retained as spare	
12.07	Conductor material	
12.08	Cross-section of the conductor (minimum 1 Sq mm is required)	
12.09	Is tinned annealed copper conductor used in the cable?	
12.10	Classification of conductors according to IS 8130.	
12.11	What is the temperature classification of the cable?	
12.12	What is the speed (of lift) up to which this cable can be used?	
12.13	Does the proposed number of cores satisfy all the requirements proposed?	
13	**Electric Motors**	
13.01	Rating of the main drive motor	
13.02	Make and model	
13.03	Country of origin	
13.04	No. of poles	
13.0	Efficiency of the motor at:	

5		
a	25% load	
b	50% load	
c	75% load	
d	100% load	
13.06	Type of insulation	
13.07	Permitted temperature rise	
13.08	Frame size	
13.09	Is the motor run-time limiter as per Cl. 5.9.2.7 of IS 17900 Part 1 be provided?	
13.10	Bearing details at the DE side of the motor	
13.11	Bearing details at the NDE side of the motor (Insulated bearing is mandatory for V3F-driven motors)	
13.12	Rating of the door drive motor	
13.13	Country of origin	
13.14	Make and model	
13.17	Permitted temperature rise	
13.18	Frame size	
13.19	Number of motors proposed	
14	**Variable Voltage Variable Frequency Drive**	
14.01	Rating of V3F drive for main drive motor	
14.02	Make & Model	
14.03	Country of origin	
14.04	Current THD at full load (shall not be more than 5%)	
14.05	Voltage THD at full load	
14.06	Rating of V3F drive for door opening motor	
14.07	Make & Model	
14.08	Country of origin	
14.09	Current THD at full load (shall not be more than 5%)	

14.10	Voltage THD at full load	
14.11	Do the proposed drives conform to the EMI/ EMC compatibility requirements as per the relevant Standards? This is a mandatory requirement and shall be complied with.	
15	**Automatic Rescue Device (ARD)**	
15.01	Will the ARD satisfy all the requirements specified in Cl. 5.12.3.3 of IS 17900 Part 1?	
15.02	Details of battery backup. Specify the quantity, voltage, AH rating, etc.	
16	**Electrical works**	
16.01	Will all the electrical installations be selected and installed according to Cl. 5.10 of IS 17900 Part 1 in general?	
16.02	Will all electrical work be carried out strictly following the latest IS 732, NEC, NBSC, and all other relevant Standards?	
16.03	Will the electrical equipment of the lift comply with the requirements of IS 16504 Part 1?	
16.04	Will the installation comply with the electromagnetic compatibility requirements in accordance with IS 17805 Parts 1&2?	
16.05	Will the control equipment comply with the safety circuit immunity requirements according to IS 16503 Part 3?	
16.06	Will the electrical actuators be selected, mounted, and identified in accordance with IS 16503 Part 3?	
16.07	Will the devices use in safety circuits conform to the requirements of Cl. 5.10.3.2.2 of IS 17900 Part 1?	
16.08	Will the wiring installations be done conforming to IS 16504?	
16.09	Will conductors and cables be installed in conduits or trunkings or equivalent mechanical protection as envisaged in Cl. 5.10.6.3.2 of IS 17900 Part 1? OR double-insulated cables be used if no mechanical protection is used?	
16.10	Will the earthing of the installation comply with the requirements of IS	

	3043, IS 732, NEC, etc.? No separate (dedicated earth pit) will be provided for the lifts. If at all it is required, reference to relevant Indian Standards is to be furnished	
16.11	Will all protections against electrical faults, failure analysis, and electrical safety devices be provided in accordance with Clause 5.11 of IS 17900 Part 1?	
16.12	Will Programmable electronic systems in safety-related applications (PESSRAL) be incorporated as per Cl. 5.11.2.6 of IS 17900 Part 1, meeting the requirements of IS 17106?	
16.13	Will all the controls as per Cl. 5.12 of IS 17900 be provided? Furnish the details separately.	
17	**Fireman's Lift**	
17.01	Furnish the details of additional features proposed for the fireman's lift	
18	**Safeties**	
18.01	Will all the safety specifications for lift installation in high-rise buildings be adhered to?	
19.	**Energy efficiency rating of the lift**	
19.01	Is the lift manufactured in compliance with the EE requirements specified in IS 17515?	
19.02	Will the energy classification level meet at least level D according to IS 17515? Furnish details	
20	**Indication Panels**	
20.01	Type of indication panel proposed	
20.02	Type of display	
20.03	Background colour of the display	
20.04	Colour of letters	
20.05	Material of face plate	
20.06	Overall dimensions of the indication panel inside the car	
20.07	Overall dimensions of the indication panel on external wall	
21	**Communication system**	
21.0	Will the necessary additional core, as	

1	required, be provided in the travelling cable up to the lift machine room?	
21.02	Will the telephone instrument be supplied and installed? If so, furnish the following details	
a	Make	
b	Model	
22	**CCTV camera**	
22.01	Will a CCTV camera be installed in the lift car? (Minimum 2 MP fixed dome camera is to be installed). If so, furnish the following details:	
a	Number of cameras proposed to be installed	
b	Make of camera	
c	Model of camera	
22.02	Will additionally core, as required, be provided in the travelling cable up to the lift machine room?	
23	**Group Control of Lifts**	
23.01	Can a duplex selective collective operation of lifts be provided? If so, furnish the details:	
23.02	Mention any other control systems considered	
24	**Control Module**	
24.01	Will a control module with all necessary hardware for integrating the following facilities be provided?	
a	Access control	
b	Fire alarm system	
c	Public address system	
d	Wireless communication system	
e	CCTV	
25	**Catalogues**	
25.01	Submit technical catalogues for the following	
a	Car body	
b	Landing doors	
c	Indication panels	
d	Guide rails	
e	Suspension ropes	
f	Main drive motor	
g	Door opening motor	
h	V3F drive for main motor	
i	V3F drive for door opening motor	
j	Pulley	
k	Telephone device	
l	CCTV camera	
m	Light fixtures	

n	Ventilating fans	
26	**Copy of test reports to be submitted for similar items proposed to be used (Submit copies of certificates for which tests were performed within five years)**	
26.01	Fire rating of car door	
26.02	Fire rating of landing door	
26.03	Rope (mechanical)	
26.04	Guide rails (mechanical)	
26.05	Travelling cable (Electrical)	
26.06	Buffers (Mechanical)	
26.07	Main drive motor (Electrical)	
26.08	Door opening motor (Electrical)	
26.09	VFD for main drive motor (Electrical)	
26.10	VFD for door opening motor (Electrical)	
26.13	Copy of other relevant test certificates not mentioned above	
27	**Tests**	
27.01	Can all tests as specified in IS 17900 be performed after completion, and the certificates furnished?	
28	**Statutory approvals and obtaining the first insurance certificate (Mandatory)**	
28.01	Can all the necessary approvals be obtained to make the lift operational, including remittance of necessary fees on a reimbursable basis?	
28.02	Can the insurance for the lifts be obtained, including remittance of necessary fees on a reimbursable basis?	
29	**Other Details the supplier wishes to add, if any**	

DECLARATION

4. I, …… (name of person) working as …… (designation) since ……. (period from working) solemnly declare that all the details furnished above are true and correct to the best of my knowledge and belief and are collected from the authorised authority in our organisation.
5. I also declare that the copies of the certificates attached are exact reproductions of the original copies available with …… (specify the name of the person with designation/ name of office).
6. I can furnish original copies of the documents without delay if called upon.

Place: Name & Designation
Date:

The intending bidders/ representatives of the concerned agency can visit the office for the verification of the existing lift for buyback, if required, during office hours in consultation with Duty Officer, Police Headquarters. Contact No. 0471- 2721547-1298.

****