

**बिड दस्तावेज़ / Bid Document**

बिड विवरण / Bid Details	
बिड बंद होने की तारीख/समय / Bid End Date/Time	20-01-2026 14:00:00
बिड खुलने की तारीख/समय / Bid Opening Date/Time	20-01-2026 14:30:00
बिड पेशकश वैधता (बंद होने की तारीख से) / Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम / Ministry/State Name	Kerala
विभाग का नाम / Department Name	Home Department Kerala
संगठन का नाम / Organisation Name	Police Department
कार्यालय का नाम / Office Name	Police Headquarters
कुल मात्रा / Total Quantity	2696
वस्तु श्रेणी / Item Category	Mobile Data Terminals , QR Code Printer , QR Code Reader , WiFi Dongles , VC Equipments , Router Modem
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Specialised specification for Mobile Data Terminals
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Software Based Solution For Mobile Devices And CDR Analysis
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> <li>Label Printer / Barcode Printer</li> <li>High End Desktop Computer</li> <li>Rugged Notebook - Laptop</li> </ul>
बीओक्यू शीर्षक / BOQ Title	MDT1343 QR Printer Reader VC Equipment
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) / Minimum Average Annual Turnover of the bidder (For 3 Years)	230 Lakh (s)
मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का) / OEM Average Turnover (Last 3 Years)	1200 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष / Years of Past Experience Required for same/similar service	3 Year (s)
एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / MSE Relaxation for Years of Experience and Turnover	No
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Relaxation for Years of Experience and Turnover	No

बिड विवरण/Bid Details	
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	5
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
विगत प्रदर्शन /Past Performance	30 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	Mobile Data Terminals
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
अनुमानित बिड मूल्य /Estimated Bid Value	47462000
Payment Timelines	Payments shall be made to the Seller within <b>45</b> days of issue consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
मूल्यांकन पद्धति/Evaluation Method	Item wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
Schedule 1 ईएमडी राशि/EMD Amount (In INR)	402900
Schedule 2 ईएमडी राशि/EMD Amount (In INR)	49360
Schedule 3 ईएमडी राशि/EMD Amount (In INR)	12280
Schedule 4 ईएमडी राशि/EMD Amount (In INR)	3120
Schedule 5 ईएमडी राशि/EMD Amount (In INR)	6000
Schedule 6 ईएमडी राशि/EMD Amount (In INR)	960

#### ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	Bank of India
ईपीबीजी प्रतिशत (%) /ePBG Percentage(%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	62

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

(b). The EMD Amount will be applicable for each schedule/group selected during Bid creation.

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

#### लाभार्थी /Beneficiary :

Assistant Inspector General of Police Procurement  
Police Headquarters, Home Department Kerala, Police Department,  
(Assistant Inspector General Of Police Procurement Phq)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

#### एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	No
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#### एमआईआई खरीद वरीयता / MII Purchase Preference

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
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मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में है / Purchase Preference to MII sellers available upto price within L1+X%	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	Yes, in compliance with the MII ORDER : DPIIT Order(as amended and applicable time to time)

1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

4. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017

5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 30% of bid quantity, in at least one of the last three Financial years before the bid opening date.

to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

#### मूल्यांकन विधि(मदवार मूल्यांकन विधि) / **Evaluation Method** ( Item Wise Evaluation Method )

Contract will be awarded schedulewise and the determination of L1 will be done separately for each schedule. The details of item-consignee combination covered under each schedule are as under:

मूल्यांकन अनुसूचियां / <b>Evaluation Schedules</b>	अनुमानित मूल्य / <b>Estimated Value</b>	वस्तु/श्रेणी / <b>Item/Category</b>	मात्रा / <b>Quantity</b>
Schedule 1	40290000	Mobile Data Terminals	1343
Schedule 2	4936000	Qr Code Printer	617
Schedule 3	1228000	Qr Code Reader	614
Schedule 4	312000	Wifi Dongles	78
Schedule 5	600000	Vc Equipments	12
Schedule 6	96000	Router Modem	32

#### Mobile Data Terminals

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

#### तकनीकी विशिष्टियाँ /Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoy	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapuram	1343	25

#### QR Code Printer

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

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क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoy	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapura m	617	25

## QR Code Reader

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

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## प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoy	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapura m	614	25

## WiFi Dongles

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

#### तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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#### प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoid	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapuram	78	20

#### VC Equipments

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

#### तकनीकी विशिष्टियाँ /Technical Specifications

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#### प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoid	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapuram	12	20

## Router Modem

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

### तकनीकी विशिष्टियाँ /Technical Specifications

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### प्रेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	K C Ceynoid	695033,Opp. South Zone ADGP Office & IGP Trivandrum office, Nandavanam,Thiruvananthapuram	32	15

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

#### 1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contract rates. The delivery period of quantity shall commence from the last date of original delivery order and in case where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

#### 2. Service & Support

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

#### 3. Forms of EMD and PBG

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



Assistant Inspector General of Police Procurement  
payable at  
Thiruvananthapuram

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

4. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

5. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

**I. Mobile Data Terminal (MDT)**

Sl. No.	Item	Description
1	IP Grading	IP65 or higher compliant housing design
2	Device Type	Rugged Device (MDT/TAB) from edge to edge, with Minimum 5 Years of life with drop, vibration, IP ratings with reference to MIL-STD 810H and IP65/IP68 or better
3	Rugged Specs Drop rating	Minimum 4 ft./1.2 m multiple drop as per MIL-STD 810H across operating temperature range (without casing/cover).
4	Operating System	Latest Android 14 or higher (AER) or iOS. Operating system shall receive regular security patches and OS version updates for a minimum of five (5) years from the date of deployment, with vendor commitment to ensure patch and OS upgrade availability throughout the support period.
5	Processor	Octa-core processor (2.2 GHz) or higher.
6	Display	Minimum 8-inch capacitive multi-touch panel with a resolution of 1280 x 800 pixels or higher (240 ppi or higher), sunlight readable (minimum 600 nits)
7	Storage & Memory	Minimum 128 GB internal storage with 8 GB RAM or higher. Internal storage shall be expandable up to 1 TB using a microSD card/USB

8	Wireless Connectivity	Built-in WiFi ( 802.11 a/b/g/n/ac/ax 2.4G+5GHz or better IPVv4, IPv6 Support), Bluetooth Ver 5.1 or higher ,4G and 5G cellular modules with latest versions during the time of procurement module, 4G and 5G LTE multicarrier mobile broadband. RF antenna passthrough for GPS, WWAN, and WLAN or equivalent. (Optional).
9	GPS	GPS - Built-in GPS module for positioning The device shall support multiple satellite navigation systems including GPS, A-GPS, GLONASS, Galileo, and NavIC (optional) Sensor - The device shall be equipped with standard sensors including accelerometer, gyroscope, ambient light sensor, GPS/GNSS (with NavIC (optional) support), proximity sensor and Fingerprint sensor (Optional)
10	Camera	Front camera: 2 MP or higher; Rear camera: 8 MP or higher with autofocus and LED flash.
11	Battery	5000 mAH or more with minimum 8 hours operational battery life, supports fast charging. Fast charger with compatible cable should also provide.
12	Expansion slots	Optional I/O interfaces with USB Type-C, GPIO, OBD-II, RS232, RS422, RS485
13	Graphics Card	Integrated GPU supporting hardware-accelerated graphics

14	Input Output Ports	<p>Mandatory Ports:</p> <ul style="list-style-type: none"> <li>- USB Type-C (USB 2.0 Gen 1 or higher) with OTG and charging support</li> <li>- 3.5 mm audio combo jack or audio via USB-C</li> <li>- Nano SIM (4G/5G)</li> <li>- POGO-pin docking connector (2-pin or higher)</li> <li>- DC-in or USB-C power input.</li> </ul> <p>Optional Ports:</p> <ul style="list-style-type: none"> <li>- USB Type-A (USB 3.0 or higher)</li> <li>- HDMI output (Type-A or Micro-HDMI)</li> <li>- RJ-45 Ethernet (10/100/1000 Mbps) via docking station</li> <li>- Smart card reader (1- 2 slots)</li> <li>- RF antenna passthrough (GPS, WWAN, WLAN) for vehicle mounted models</li> <li>- NFC support for secure authentication or eID verification</li> <li>- microSD slot (microSDHC/SDXC)</li> </ul>
15	Audio	Built-in audio speakers.
16	Security	Device shall support secure boot, hardware-backed key store, encryption (AES-256), and verified OS integrity. Device shall be provisioned with a clean, hardened operating system image, free from bloatware, adware, analytics SDKs, and unauthorized third-party applications.
17	Protective case	Rugged protective case ensuring impact and scratch resistance without obstructing ports or controls.
18	Sensor	Sensor - The device shall be equipped with standard sensors including accelerometer, gyroscope, ambient light sensor, GPS/GNSS (with NavIC (optional) support), proximity sensor (Optional) and Fingerprint sensor (Optional)
19	Geo tagging Feature	Yes
20	Weight	<=500 gms without rugged case (optional)
21	Certification	BIS, AER, CE, FIPS140-2, EPR/ EPEAT, RoHS, ISO 15408 & FIPS140-2
22	Rugged Device Recommended	Certified as Android Enterprise Recommended (AER) Rugged Device.

23	Availability of Service Centre for Warranty Obligation	OEM or OEM authorized partner of the quoted brand should have 24 x 7 Toll Free Number for service support and OEM/Authorized Partner should have their own service centre in Kerala.
24	Standard Accessories to be supplied	Data Cable USB Type-C, Battery Charger (Fast charging support), Stylus Pen and Tempered Glass. Supplied accessories shall be of same OEM/OEM recommended.
25	Mobile Device Management (MDM) Software	Device with MDM support, Shall supply MDM application to support/manage offered devices and quantity, without any additional cost. MDM OEM must be AER certified/listed. MDM solution must be with below features: a) Geo Fencing. b) Admin portal for remote device enrolment, un-enrolment, silent app deployment, and security policy configuration. c) Data breach restriction. d) SIM binding/ restriction feature. e) Wi-Fi restriction feature.
26	Fetch IMEI	Device should allow Fetching of IMEI (optional)
27	Security during Connection to External USB Devices	Device should allow or block write access using MTP Protocol
28	Warranty	5 years OEM warranty

## II. QR code Printer

<b><u>S.No</u></b>	<b>Item</b>	<b>Description</b>
1	Resolution	300 DPI (12 dots/mm) or more
2	Max. Print Width	4 inches or more
3	Maximum Print Speed	6 inch/second or more
4	Machine Type	Automatic,
5	Printing Method	Direct Thermal & Thermal Transfer

6	Style	Black and White
7	Connectivity	USB 2.0 / USB 3.0 / DC 5Volt
8	Memory	8 MB Flash/ 8MB SDRAM or higher
9	Print Width	4.09"/ 104mm or more
10	Print Length	39"/ 990mm or more
11	Print Speed	6"/ 150mm per second or more
12	Media Width	0.75"/ 19.5mm to 4.49"/ 114mm or more
13	Media Length	0.25"/ 6.5mm to 39"/ 990mm or more
14	Printing	Supports sticker labels, continuous roll, tags, and gap/black mark sensing.
15	Warranty	3 Year Warranty and 2 Year AMC The OEM or OEM-authorized service centre should be available in Kerala

### III. QR Scanner Reader

Sl.No	Item	Description
1	Image Sensor (Pixels)	640 x 400 pixels or higher
2	Symbologies	QR Code
3	Pitch/Skew	Pitch: $\pm 60^\circ$ , Skew: $\pm 60^\circ$ .
4	Scan Angle	Roll 0-360°
5	Min. Symbol Contrast	$\leq 25\%$
6	Interface	USB
7	Dimensions	Ergonomically designed product
8	Weight	<250g
9	Indication	Buzzer, Indicator light LED
10	Operating Power	Must be as per USB 2.0/3.0 standard requirement /DC 5 Volt $\pm 5\%$
11	Input Voltage	Must be as per USB 2.0/3.0 standard requirement / DC 5 Volt $\pm 5\%$
12	Motion tolerance	Up to 5 in.(13 cm) per second for 13 mil UPC

13	Light Source	LED 350-770 nm
14	Operating Temperature	0oC to 50oC
15	Storage Temperature	-20°C to +70°C.
16	Humidity	5% to 95% non-condensing
17	ESD	+/- 8 KV Contact Discharge +/- 15 KV Air Disc harge
18	DROP	1m, Unpacked Condition, As per 60068-2-31
19	Environment Sealing	IP42, as per IEC 60529
20	Decode Range	1" to 10" for 20 mil QR Code
21	Service Center	Service should Be Available in Kerala
22	Safety Standards like L ED safety	IEC 62471:2006 *IEC 60950-1:2005 + A1 + A2 (optional) IS 1325 2(PART 1):2010
23	Warranty	<ul style="list-style-type: none"> <li>◦ 3 Year Warranty and 2 Year AMC</li> <li>◦ The OEM or OEM-authorized service centr e should be available in Kerala</li> </ul>

#### **IV. Dongles for 4G/5G SIM Connectivity**

##### **1. Cellular Technology and Speed**

S.N	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes /No)
1	Specification	4G LTE Dongle. 5G preferred	
2	Network Support	4G LTE (FDD/TDD), 3G (WCDMA/HSPA+)	
3	Download Speed	Up to 70 Mbps or more.	
4	Upload Speed	Up to 50 Mbps or more	

5	Chipset	Qualcomm Snapdragon X-series (e.g., X5, X6) or equivalent 4G chipsets or newer	
6	Antenna Technology	2x2 MIMO (Multiple-Input Multiple-Output). 4x4 MIMO preferred	

### 1. Network Compatibility

S.N .	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Frequency Bands	Must support the specific 4G LTE or 5G NR bands.	
2	Backward Compatibility	3G/2G Fallback. Complete Support for backward compatibility (UMTS/HSPA+/EDGE/GSM).	
3	Modulation	Minimum 64 QAM for Downlink (DL) and 16 QAM for Uplink (UL)	
4	Interoperability	Universal device. The proposed dongle shall compatible with any available ISP connections/SIM Cards and seamless operations	

### 1. Physical and Interface Specifications

S.N .	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Connectivity Interface Type	USB-C/Support for USB-A. USB 3.0 or 2.0	

2	SIM Card Slot Type	Nano/ Micro SIM, and/or eSIM Support.	
3	Operating System Support/ Compatibility	Compatibility with Windows, MacOS, Linux, ChromeOS, iPadOS.	
4	External Antenna Ports (Optional)	Two External Antenna Ports (TS-9 or SMA) for MIMO diversity. (boost signal strength)	
5	Form Factor	Compact, portable "USB Stick" style.	
6	Wi-Fi Hotspot Feature	Facility to create Wi-Fi Hotspot to share the connection with multiple devices (USB Wi-Fi or Mobile Hotspot feature).	

## 2. Software and Management

S.N	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Web UI (Optional)	A web-based interface for easy configuration, monitoring data usage, sending SMS, and managing network settings	
2	Software/Firmware Upgrade	The device upgrades (software/hardware), patches shall be done by selected vendor for 3 years without any extra cost to customer	



3	Driver/Setup	Should be "Plug & Play" or come with built-in driver installation software .	
4	Management Protocols	Support for protocols like RNDIS, NDIS, PPP, or MBIM for connectivity.	
5	Warranty	3 years	

## V. VC Equipment -Camera, Microphone with DVR

Product Type	All-in-One Video Bar with internal/external DVR recording and playback capability.
Built-in Components	6 beamforming microphones, PTZ camera, 2 speakers, AI Viewfinder, cable management and retention system, table stand
Display Resolution:	Up to 1080p
Network Protocol Support	IPv4, IPv6
Camera Resolution	4K, 1440p, 1080p, 900p, 720p, and SD at 30fps
Pan and Tilt	yes , motorized
Diagonal Field of View	90 degree
Horizontal Field of View	80 degree
Vertical Field of View	50 degree
Speakers	2x 70 mm - 8 W
Microphones pick up range	7 METERS

Interfaces	HDMI Out: 2 (up to 1080p) H DMI In: 1  USB: 3x Type A, 1x Type C N etwork: 10/100/1G Ethernet  WiFi: 802.11a/b/g/n/ac Extern al Mic Input: Yes
Remote Control	Bluetooth
STd accessories	Power cord/ USB cable/hdmi cable
Recording (DVR) Capab ility	Internal/External DVR module supporting local recordi ng of audio and video sessions directly from the VC s ystem.  Minimum 2 TB Surveillance-grade HDD (24x7 rated), expandable up to 4 TB. Must support secure file form at with date/time-stamped recordings and playback t hrough built-in or compatible player software.  Supported Video Formats : H.264 / H.265; Audio:
	AAC / Opus. Supports MP4 and AVI export.
Warranty	5 years onsite warranty.  The OEM or OEM-authorized service centre should be a vailabile in Kerala
ADD on items- Optional	Mic Pod
	Mic Hub
	USB (10m, 25m, 45m)

## VI. Wi-Fi Router Specifications/Requirements

S.N.	Specifications	Compliance/Standard	Compliance by OEM/ Bidd er (Yes/No)
1	Standard	IEEE 802.11 or above (WIFI 6)	

2	Frequency Band	Dual-band (2.4 GHz, 5 GHz)	
3	Maximum Theoretical Speed	2000 or 3000 Mbps (574 Mbps @ 2.4 GHz + 2402 Mbps @ 5 GHz)	
4	Channel Bandwidth	2.4 GHz: 20/40 MHz   5 GHz: 20/40/80 MHz	
5	Modulation	1024-QAM (Quadrature Amplitude Modulation)	
6	Efficiency/Capacity	OFDMA and MU-MIMO (Orthogonal Frequency-Division Multiple Access, Multi-User MIMO)	
7	Throughput	VHT (Very High Throughput or HT with OFDMA)	
8	Backward Compatibility	Backward-compatible with 802.11a/b/g/n/ac devices.	
9	Security Protocol	WPA3-Enterprise Support	
10	Wired Ports	1 × Gigabit WAN port, 4 × Gigabit LAN port	
11	Topology/Feature	Mesh/ Access Point (AP) Capability with Centralized Management	

## Pre-qualification criteria

1. The bidder must be a registered company under the Companies Act, Partnership, LLP or Pvt Ltd, an MSME registered organisation. Certificate of incorporation/MSME Registration Certificate must be submitted.
2. The bidder/OEM must have experience in delivering and executing order for Government organisations. Copy of work orders must be submitted.
3. The bidder should have successfully completed any one of the following work orders for MDT within the last five years:
  - One project of value ₹10 Crore or more, or
  - Two projects of value ₹5 Crore or more each, or

- Five projects of value ₹50 Lakh or more each.

Work order/completion certificate or contracts to be submitted.

4. Average Annual Turnover of the bidder/OEM in the last 3 financial years:

MDT - 12 Crores

QR Code Printer - 2 Crores

QR Code Reader - 50 Lakhs

WiFi Dongles and VC Equipment - 25 Lakhs

The bidder must have a positive net worth. Audited financial balance sheet, CA Certification etc to be submitted.

5. The bidder or OEM must have a minimum 4 years experience in manufacturing or supplying the equipments.
6. The proposed system must comply with at least BIS/ISO standards for Hardware
7. OEM authorisation letter, warranty documentation, MAF (specifically mentioning the Tender number for this particular bid).
8. Bidders must provide on-site support delivery and installation.
9. All the bidders should deliver one unit of each equipment with required supporting documents to the Police Headquarters for technical evaluation.
10. EMD exemption as per GeM Rule
11. Equipments/Samples produced for Technical Evaluation has to be kept with the Department for verification at the time of delivery.

#### 6. **Buyer Added Bid Specific ATC**

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

#### 7. **Rate Contract**

AVAILABILITY OF OFFICE OF SERVICE PROVIDER: An office of the Service Provider must be located in the state of Consignee. DOCUMENTARY EVIDENCE TO BE SUBMITTED.

#### 8. **Rate Contract**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty).

service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

#### 9. **Warranty**

Warranty period of the supplied products shall be 5 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

#### 10. **Generic**

**Manufacturer Authorization:** Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address e-mail Id and Phone No. required to be furnished along with the bid

#### 11. **Forms of EMD and PBG**

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

Assistant Inspector General of Police Procurement  
payable at  
Thiruvananthapuram

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

#### 12. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

#### 13. **Warranty**

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification within defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to reimburse the cost of such service / rectification to the Buyer.

### अस्वीकरण/Disclaimer

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

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category

item bunched with it.

4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020 and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and
- All operative provisions of the erstwhile Labour Laws until their complete substitution.

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.**

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

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकार के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration

non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---धन्यवाद/Thank You---**

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## I. Mobile Data Terminal (MDT)

Sl. No.	Item	Description
1	IP Grading	IP65 or higher compliant housing design
2	Device Type	Rugged Device (MDT/TAB) from edge to edge, with Minimum 5 Years of life with drop, vibration, IP ratings with reference to MIL-STD 810H and IP65/IP68 or better
3	Rugged Specs Drop rating	Minimum 4 ft./ 1.2 m multiple drop as per MIL-STD 810H across operating temperature range (without casing/cover).
4	Operating System	Latest Android 14 or higher (AER) or iOS. Operating system shall receive regular security patches and OS version updates for a minimum of five (5) years from the date of deployment, with vendor commitment to ensure patch and OS upgrade availability throughout the support period.
5	Processor	Octa-core processor (2.2 GHz) or higher.
6	Display	Minimum 8-inch capacitive multi- touch panel with a resolution of 1280 x 800 pixels or higher (240 ppi or higher), sunlight readable (minimum 600 nits)
7	Storage & Memory	Minimum 128 GB internal storage with 8 GB RAM or higher. Internal storage shall be expandable up to 1 TB using a microSD card/USB
8	Wireless Connectivity	Built-in WiFi ( 802.11 a/b/g/n/ac/ax 2.4G+5GHz or better IPv4, IPv6 Support), Bluetooth Ver 5.1 or higher ,4G and 5G cellular modules with latest versions during the time of procurement module, 4G and 5G LTE multicarrier mobile broadband. RF antenna passthrough for GPS, WWAN, and WLAN or equivalent. (Optional).
9	GPS	GPS - Built-in GPS module for positioning The device shall support multiple satellite navigation systems including GPS, A-GPS, GLONASS, Galileo, and NavIC (optional) Sensor - The device shall be equipped with standard sensors including accelerometer, gyroscope, ambient light sensor, GPS/GNSS (with NavIC (optional) support), proximity sensor and Fingerprint sensor (Optional)
10	Camera	Front camera: 2 MP or higher; Rear camera: 8 MP or higher with autofocus and LED flash.
11	Battery	5000 mAH or more with minimum 8 hours operational battery life, supports fast charging. Fast charger with compatible cable should also provide.
12	Expansion slots	Optional I/O interfaces with USB Type-C, GPIO, OBD-II, RS232, RS422, RS485



13	Graphics Card	Integrated GPU supporting hardware-accelerated graphics
14	Input Output Ports	<p>Mandatory Ports:</p> <ul style="list-style-type: none"> <li>- USB Type-C (USB 2.0 Gen 1 or higher) with OTG and charging support</li> <li>- 3.5 mm audio combo jack or audio via USB-C</li> <li>- Nano SIM (4G/5G)</li> <li>- POGO-pin docking connector (2-pin or higher)</li> <li>- DC-in or USB-C power input.</li> </ul> <p>Optional Ports:</p> <ul style="list-style-type: none"> <li>- USB Type-A (USB 3.0 or higher)</li> <li>- HDMI output (Type-A or Micro-HDMI)</li> <li>- RJ-45 Ethernet (10/100/1000 Mbps) via docking station</li> <li>- Smart card reader (1– 2 slots)</li> <li>- RF antenna passthrough (GPS, WWAN, WLAN) for vehicle mounted models</li> <li>- NFC support for secure authentication or eID verification</li> <li>- microSD slot (microSDHC/SDXC)</li> </ul>
15	Audio	Built-in audio speakers.
16	Security	Device shall support secure boot, hardware-backed keystore, encryption (AES-256), and verified OS integrity. Device shall be provisioned with a clean, hardened operating system image, free from bloatware, adware, analytics SDKs, and unauthorized third-party applications.
17	Protective case	Rugged protective case ensuring impact and scratch resistance without obstructing ports or controls.
18	Sensor	Sensor - The device shall be equipped with standard sensors including accelerometer, gyroscope, ambient light sensor, GPS/GNSS (with NavIC (optional) support), proximity sensor (Optional) and Fingerprint sensor (Optional)
19	Geo tagging Feature	Yes
20	Weight	<=500 gms without rugged case (optional)
21	Certification	BIS, AER, CE, FIPS140-2, EPR/ EPEAT, RoHS, ISO 15408 & FIPS140-2
22	Rugged Device Recommended	Certified as Android Enterprise Recommended (AER) Rugged Device.
23	Availability of Service Centre for Warranty Obligation	OEM or OEM authorized partner of the quoted brand should have 24 x 7 Toll Free Number for service support and OEM/Authorized Partner should have their own service centre in Kerala.
24	Standard Accessories to be supplied	Data Cable USB Type-C, Battery Charger (Fast charging support), Stylus Pen and Tempered Glass. Supplied accessories shall be of same OEM/OEM recommended.

25	Mobile Device Management (MDM) Software	Device with MDM support, Shall supply MDM application to support/manage offered devices and quantity, without any additional cost. MDM OEM must be AER certified/listed. MDM solution must be with below features: a) Geo Fencing. b) Admin portal for remote device enrolment, un-enrolment, silent app deployment, and security policy configuration. c) Data breach restriction. d) SIM binding/ restriction feature. e) Wi-Fi restriction feature.
26	Fetch IMEI	Device should allow Fetching of IMEI (optional)
27	Security during Connection to External USB Devices	Device should allow or block write access using MTP Protocol
28	Warranty	5 years OEM warranty

## II. QR code Printer

<b><u>S.No</u></b>	<b>Item</b>	<b>Description</b>
1	Resolution	300 DPI (12 dots/mm) or more
2	Max. Print Width	4 inches or more
3	Maximum Print Speed	6 inch/second or more
4	Machine Type	Automatic,
5	Printing Method	Direct Thermal & Thermal Transfer
6	Style	Black and White
7	Connectivity	USB 2.0 / USB 3.0 / DC 5Volt
8	Memory	8 MB Flash/ 8MB SDRAM or higher
9	Print Width	4.09"/ 104mm or more
10	Print Length	39"/ 990mm or more
11	Print Speed	6"/ 150mm per second or more
12	Media Width	0.75"/ 19.5mm to 4.49"/ 114mm or more
13	Media Length	0.25"/ 6.5mm to 39"/ 990mm or more
14	Printing	Supports sticker labels, continuous roll, tags, and gap/black mark sensing.
15	Warranty	3 Year Warranty and 2 Year AMC The OEM or OEM-authorized service centre should be available in Kerala

### III. QR Scanner Reader

Sl.No	Item	Description
1	Image Sensor (Pixels)	640 x 400 pixels or higher
2	Symbologies	QR Code
3	Pitch/Skew	Pitch: $\pm 60^\circ$ , Skew: $\pm 60^\circ$ .
4	Scan Angle	Roll $0-360^\circ$
5	Min. Symbol Contrast	$\leq 25\%$
6	Interface	USB
7	Dimensions	Ergonomically designed product
8	Weight	$< 250\text{g}$
9	Indication	Buzzer, Indicator light LED
10	Operating Power	Must be as per USB 2.0/3.0 standard requirement /DC 5 Volt $\pm 5\%$
11	Input Voltage	Must be as per USB 2.0/3.0 standard requirement / DC 5 Volt $\pm 5\%$
12	Motion tolerance	Up to 5 in.(13 cm) per second for 13 mil UPC
13	Light Source	LED 350-770 nm
14	Operating Temperature	$0^\circ\text{C}$ to $50^\circ\text{C}$
15	Storage Temperature	$-20^\circ\text{C}$ to $+70^\circ\text{C}$ .
16	Humidity	5% to 95% non-condensing
17	ESD	$\pm 8$ KV Contact Discharge $\pm 15$ KV Air Discharge
18	DROP	1m, Unpacked Condition, As per 60068-2-31
19	Environment Sealing	IP42, as per IEC 60529
20	Decode Range	1" to 10" for 20 mil QR Code
21	Service Center	Service should Be Available in Kerala
22	Safety Standards like LED safety	IEC 62471:2006 *IEC 60950-1:2005 + A1 + A2 (optional) IS 13252(PART 1):2010
23	Warranty	<ul style="list-style-type: none"> <li>3 Year Warranty and 2 Year AMC</li> <li>The OEM or OEM-authorized service centre should be available in Kerala</li> </ul>

## **IV. Dongles for 4G/5G SIM Connectivity**

### **1. Cellular Technology and Speed**

S.N .	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Specification	4G LTE Dongle. 5G preferred	
2	Network Support	4G LTE (FDD/TDD), 3G (WCDMA/HSPA+)	
3	Download Speed	Up to 70 Mbps or more.	
4	Upload Speed	Up to 50 Mbps or more	
5	Chipset	Qualcomm Snapdragon X-series (e.g., X5, X6) or equivalent 4G chipsets or newer	
6	Antenna Technology	2x2 MIMO (Multiple-Input Multiple-Output). 4x4 MIMO preferred	

### **2. Network Compatibility**

S.N .	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Frequency Bands	Must support the specific 4G LTE or 5G NR bands.	
2	Backward Compatibility	3G/2G Fallback. Complete Support for backward compatibility (UMTS/HSPA+/EDGE/GSM).	
3	Modulation	Minimum 64 QAM for Downlink (DL) and 16 QAM for Uplink (UL)	
4	Interoperability	Universal device. The proposed dongle shall compatible with any available ISP connections/SIM Cards and seamless operations	

### **3. Physical and Interface Specifications**

S.N .	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Connectivity Interface Type	USB-C/Support for USB-A. USB 3.0 or 2.0	

2	SIM Card Slot Type	Nano/ Micro SIM, and/or eSIM Support.	
3	Operating System Support/ Compatibility	Compatibility with Windows, MacOS, Linux, ChromeOS, iPadOS.	
4	External Antenna Ports (Optional)	Two External Antenna Ports (TS-9 or SMA) for MIMO diversity. (boost signal strength)	
5	Form Factor	Compact, portable "USB Stick" style.	
6	Wi-Fi Hotspot Feature	Facility to create Wi-Fi Hotspot to share the connection with multiple devices (USB Wi-Fi or Mobile Hotspot feature).	

#### 4. Software and Management

S.N	Specification	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Web UI (Optional)	A web-based interface for easy configuration, monitoring data usage, sending SMS, and managing network settings	
2	Software/Firmware Upgrade	The device upgrades (software/hardware), patches shall be done by selected vendor for 3 years without any extra cost to customer	
3	Driver/Setup	Should be "Plug & Play" or come with built-in driver installation software.	
4	Management Protocols	Support for protocols like RNDIS, NDIS, PPP, or MBIM for connectivity.	
5	Warranty	3 years	

#### V. VC Equipment -Camera, Microphone with DVR

Product Type	All-in-One Video Bar with internal/external DVR recording and playback capability.
Built-in Components	6 beamforming microphones, PTZ camera, 2 speakers, AI Viewfinder, cable management and retention system, table stand
Display Resolution:	Up to 1080p
Network Protocol Support	IPv4, IPv6
Camera Resolution	4K, 1440p, 1080p, 900p, 720p, and SD at 30fps

Pan and Tilt	yes , motorized
Diagonal Field of View	90 degree
Horizontal Field of View	80 degree
Vertical Field of View	50 degree
Speakers	2x 70 mm - 8 W
Microphones pick up range	7 METERS
Interfaces	HDMI Out: 2 (up to 1080p) HDMI In: 1 USB: 3x Type A, 1x Type C Network: 10/100/1G Ethernet WiFi: 802.11a/b/g/n/ac External Mic Input: Yes
Remote Control	Bluetooth
STd accessories	Power cord/ USB cable/hdmi cable
Recording (DVR) Capability	Internal/External DVR module supporting local recording of audio and video sessions directly from the VC system.  Minimum 2 TB Surveillance-grade HDD (24×7 rated), expandable up to 4 TB. Must support secure file format with date/time-stamped recordings and playback through built-in or compatible player software.  Supported Video Formats : H.264 / H.265; Audio: AAC / Opus. Supports MP4 and AVI export.
Warranty	5 years onsite warranty. The OEM or OEM-authorized service centre should be available in Kerala
ADD on items- Optional	Mic Pod
	Mic Hub
	USB (10m, 25m, 45m)

VI. Wi-Fi Router Specifications/Requirements			
S.N.	Specifications	Compliance/Standard	Compliance by OEM/ Bidder (Yes/No)
1	Standard	IEEE 802.11 or above (WIFI 6)	
2	Frequency Band	Dual-band (2.4 GHz, 5 GHz)	
3	Maximum Theoretical Speed	2000 or 3000 Mbps (574 Mbps @ 2.4 GHz + 2402 Mbps @ 5 GHz)	

4	Channel Bandwidth	2.4 GHz: 20/40 MHz   5 GHz: 20/40/80 MHz	
5	Modulation	1024-QAM (Quadrature Amplitude Modulation)	
6	Efficiency/Capacity	OFDMA and MU-MIMO (Orthogonal Frequency-Division Multiple Access, Multi-User MIMO)	
7	Throughput	VHT (Very High Throughput or HT with OFDMA	
8	Backward Compatibility	Backward-compatible with 802.11a/b/g/n/ac devices.	
9	Security Protocol	WPA3-Enterprise Support	
10	Wired Ports	1 × Gigabit WAN port, 4 × Gigabit LAN port	
11	Topology/Feature	Mesh/ Access Point (AP) Capability with Centralized Management	

### **Pre-qualification criteria**

- 1) The bidder must be a registered company under the Companies Act, Proprietorship, LLP or Pvt Ltd, an MSME registered organisation. Certificate of Incorporation/MSME Registration Certificate must be submitted.
- 2) The bidder/OEM must have experience in delivering and executing orders for Government organisations. Copy of work orders must be submitted.
- 3) The bidder should have successfully completed any one of the following work orders for MDT within the last five years:
  - One project of value ₹10 Crore or more, or
  - Two projects of value ₹5 Crore or more each, or
  - Five projects of value ₹50 Lakh or more each.

Work order/completion certificate or contracts to be submitted.

- 4) Average Annual Turnover of the bidder/OEM in the last 3 financial years:

MDT	- 12 Crores
QR Code Printer	- 2 Crores
QR Code Reader	- 50 Lakhs

WiFi Dongles and VC Equipment - 25 Lakhs

The bidder must have a positive net worth. Audited financial balance sheet, CA Certification etc to be submitted.

- 5) The bidder or OEM must have a minimum 4 years experience in manufacturing or supplying the equipments.
- 6) The proposed system must comply with at least BIS/ISO standards for Hardware
- 7) OEM authorisation letter, warranty documentation, MAF (specifically mention the Tender number for this particular bid).
- 8) Bidders must provide on-site support delivery and installation.
- 9) All the bidders should deliver one unit of each equipment with required supporting documents to the Police Headquarters for technical evaluation.
- 10) EMD exemption as per GeM Rule
- 11) Equipments/Samples produced for Technical Evaluation has to be kept with the Department for verification at the time of delivery.