

**OFFICE OF THE  
DIRECTOR GENERAL OF POLICE  
HIMACHAL PRADESH, SHIMLA-171002.  
([spl-phq-hp@nic.in](mailto:spl-phq-hp@nic.in)) (0177-2621796, 2621614) EXT.134**

**E-TENDER NOTICE**

**No.PL-1(Purchase)-SAP-2019-20-34974**

**Dated 23 /10/2019**

The Director General of Police, Himachal Pradesh, Shimla invites E-tender from Original Equipment Manufacturers (OEM) or their authorized dealers under two Bids System i.e. Technical Bid & Financial Bid for the supply and installation of Vehicle Mounted Camera System as per the detail given in the Tender document.

**Earnest Money == Rs. 50,000/-**

**Tender Fee/Cost == Rs. 500/-**

**Estimated value of tender == 26.00 lakh.**

<b>Name of Equipment</b>	<b>Quantity</b>	<b>Technical Specifications</b>
2MP Full HD PTZ Vehicle Mounted Camera with accessories.	13 Nos.	As per Annexure-A1
2MP IR Vehicle mounted Camera with fixed lens with accessories.	13 Nos.	As per Annexure-A2
Mobile Video Recorder 4 Channels POE with 1 TB HDD with accessories.	13 Nos.	As per Annexure-A3
Colour Liquid Crystal Display Device with accessories.	13 Nos.	As per Annexure-A4
Network Control Keyboard with accessories.	13 Nos.	As per Annexure-A5

**IMPORTANT DATES**

Date of online Publication	24/10/2019 at 03:00 PM
Bid Document download Start Date	24/10/2019 after 03:00 PM
Online Bid submission Start date	24/10/2019 at 03:00 PM
Online Bid submission end date	14/11/2019 upto 01:00 PM
Hard copy Bid submission end date	15/11/2019 upto 11:00 AM
Technical bid opening date	15/11/2019 at 11:30 AM

**NOTE:-**

1. The complete Tender Set can be downloaded from Himachal Pradesh Police website [www.hppolice.gov.in](http://www.hppolice.gov.in) and <https://hptenders.gov.in>. Any change/modification in the tender enquiry will be intimated through above websites only. Bidders are, therefore, requested to visit our websites regularly to keep themselves updated.

2. Bidders must submit their bids online on website <https://hptenders.gov.in> and in hard copy also. The bids will be opened by the Purchase Committee in the presence of authorized representatives

of participated firms who may like to attend the proceedings in Conference Hall, PHQ, Shimla on scheduled date, time and venue.

3. For submission of e-bids, bidders are required to get themselves registered with <https://hptenders.gov.in> in website along with class-III digital signature certificates issued by CCA under IT Act-2003.

4. Cost of tender document in the form of Demand Draft/postal Order / Banker's Cheque only and Earnest Money in the form of FDR OR BANK GUARANTY in favour of the DDO, PHQ, HP, Shimla, payable at SBI Shimla should be deposited along with hard copy of the bids.

5. The envelope containing tender documents should be marked on the top right, **“TENDER FOR VEHICLE MOUNTED CAMERA SYSTEM.”**

6. All other terms and conditions are specified in the tender documents.

7. All documents (except BOQ) submitted by the bidders should be legible and in PDF format, otherwise, it shall be liable to be rejected.

**Sd/-**  
For Director General of Police,  
HP, Shimla-2.

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DIRECTOR GENERAL OF POLICE  
HIMACHAL PRADESH, SHIMLA-171002.  
(spl-phq-hp@nic.in) (0177-2621796, 2621614) EXT.134**

**INVITATION TO TENDER**

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**1 Detail of items proposed to be procured:-**

<b>Name of Equipment</b>	<b>Quantity</b>	<b>Technical Specifications</b>
2MP Full HD PTZ Vehicle Mounted Camera with accessories.	13 Nos.	As per Annexure-A1
2MP IR Vehicle mounted Camera with fixed lens with accessories.	13 Nos.	As per Annexure-A2
Mobile Video Recorder 4 Channels POE with 1 TB HDD with accessories.	13 Nos.	As per Annexure-A3
Colour Liquid Crystal Display Device with accessories.	13 Nos.	As per Annexure-A4
Network Control Keyboard with accessories.	13 Nos.	As per Annexure-A5

**2 PROCEDURE FOR SUBMISSION OF BIDS**

**(A) GENERAL CONDITIONS**

- i. This is an invitation to bidder for 'The Supply & Installation of Vehicle Mounted Camera System' as per technical specifications mentioned in the Tender Document.
- ii. Bidders are advised to study the tender document carefully and thoroughly. Submission of bid shall

be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.

- iii. Bidders should ascertain whether they meet the below mentioned eligibility criteria for bidding.
- iv. Bids with price variation clauses or with vague terms are liable to be ignored and rejected. Incomplete bids are liable to be rejected.
- v. It will be imperative on each bidder to fully acquaint himself with all the local conditions and factors, which would have any effect on the performance of the contract and cost of the goods.
- vi. The bidders must submit their bid online by the Bid Submission end date for online submission as specified in the Important Dates. Moreover, the bidders shall also submit hard copy of technical bid which should be packed in envelop duly sealed and marked as “**TECHNICAL BID**” and should be addressed to the Director General of Police, HP, Shimla-171002 which should reach in the office of the undersigned on or before Bid Submission End Date for Hard Copy.
- vii. Bidders are required to fill and submit all forms attached herewith i.e. **(FORM-I to FORM-V and VII & VIII)**
- viii. Bidder/OEM should have a local support set up preferably in **Himachal Pradesh** till the expiry of warranty period. (Undertaking/ list of local service centre to be submitted)

**Note:**

1. **The HP Police Deptt. shall not be responsible for any postal delay, non-receipt or non-delivery of tenders.**
2. **The Committee reserves all rights to open the envelopes and examine its contents or ask for clarifications and the decision of the committee shall be final and binding.**
3. **The Committee reserves all rights to reject any or all offers without assigning any reason whatsoever.**
4. **No bid shall be accepted through telegraphic means or over email etc.**
5. **The representatives (Employee/Manager/ Owner/Partner or Director) of the bidders participating in the tender meetings including Technical Evaluation Committee meetings etc. must carry authorization letters from the bidder concerned.**
6. **The Camera systems would be installed on Vehicles Owned by H.P Police.**

### **3. VALIDITY OF THE TENDER**

Offer should be kept open for acceptance for a period of six months from the date of opening of bid. A bid valid for a shorter period may be rejected by the purchaser as non-responsive. Any increase in rates within this period will not be entertained and will result in forfeiture of EMD and / or Security Deposit.

### **4. ELIGIBILITY CRITERION**

i. The bidder should be OEM or authorized by OEM for participating in the tender. Proof of OEM and valid authority letter of OEM shall be submitted.

ii. The bidder must have experience of at least 3 years in manufacturing/trading/supplying of the Vehicle Mounted Camera System or CCTV Camera System to Govt./Semi-Govt. offices, PSU. in India. Supply orders/successful completion of order of having supplied of the equipment are required to be submitted in the performance statement. **(FORM-III)**.

iii. The OEM either directly or through its bidder must have supplied and installed successfully at least 10 numbers of vehicle mounted camera to Govt./Semi-Govt. offices, PSU in India. Proof for the same to be attached.

iv. The bidder's average annual turnover should not be less than Rs. One Crore and OEM average annual turnover not be less than Rs. 200 Crore over last three financial years. The bidder must submit copies of balance sheet of last three financial years in respect of bidder and OEM duly signed by a Chartered Accountant. The bidder must fill and enclose the prescribed **Form - VII**.

v. At the time of bid, bidder must not be blacklisted from any Govt. Organization / Body in India. Declaration certificate must be submitted as per enclosed prescribed **Form -VIII**.

vi. The bidder must be a registered dealer under any State's GST Act and Central GST Act. Copy of GST Number must be enclosed.

vii. The OEM should have been in business in India for the last 05 Years either directly or through its dealers. Proof for the same to be attached.

viii. The OEM and its Bidder must have ISO Certification. Copy of the same is required to be submitted.

### **5. PROCEDURE FOR SUBMISSION OF BIDS**

i. An eligible bidder is to fill up online e-tender on website <https://hptenders.gov.in> up to prescribed date and time and also the bidder is to submit technical bid in hard copy. The technical bid

shall contain Tender Fee, EMD, information on compliance to eligibility criteria and technical information and tender documents **except the price part of the bid.**

**ii. The Financial bid/BOQ** shall contain the details of the price in Indian rupees inclusive of all taxes, duties, charges, F.O.R., in words as well as figures. No hard copy of the same shall be submitted.

**iii.** All the bid papers must be signed. The information submitted must be definitive and specific. Vague terms, incomplete information, counter offers, and 'uncalled for' correspondence shall not be entertained.

**iv.** Bidder is required to submit the complete bid along with annexure & brochures of the quoted equipments etc. The bid document has to be signed and stamped by the bidder. The proposal shall be exactly according to the presented formats given in the TENDER documents.

#### **6. EARNEST MONEY DEPOSIT**

A sum of Rs. Fifty thousand only should be deposited as Earnest Money Deposit (EMD) in the shape of FDR / Bank Guarantee issued by any Indian Nationalized Bank having validity period of 6 (six) month duly pledged in favour of the **DDO, PHQ, HP, Shimla-2.**

#### **7. TECHNICAL BID**

Technical bid shall consist of the following documents strictly as per sequence mentioned hereunder:-

<b>Description of Document</b>	<b>Page No.</b>
EMD and Tender fee	
Form-I duly filled in, signed and complete in all respects. <b>(FORM-I).</b>	
Qualifying data i.e Particulars & Eligibility of the bidder clarifying that the bidder is eligible for bid and is qualified to execute the contract, if the bid is accepted. <b>(FORM-II alongwith their enclosures)</b>	
Documentation (supply order/successful completion of order etc.) of having supplied of the proposed equipment or CCTV Camera in the performance statement. <b>(FORM-III).</b>	
The OEM either directly or through its bidder must have supplied, installed successfully at least 10 numbers of vehicle mounted camera to Govt./Semi-Govt. offices, PSUs in India. Proof for the same to be attached.	
Technical Compliance Statement showing adherence to the specifications of the Tender	

document requirement and Manufacturer's brochures / pamphlets / leaflet <b>(FORM-IV).</b>	
Deviations from the Tender Document conditions, if any. <b>(FORM-V).</b>	
Copy of Balance Sheet and Profit and Loss statement in respect of bidder as well as OEM for the last 3 financial years duly signed by Chartered Accountant. <b>(FORM-VII with its enclosures)</b>	
Declaration /certificate of Non-blacklisted from any Govt. Organization / Body in India. <b>Form – VIII.</b>	
Undertaking of rates to the effect that the rates quoted are the lowest possible and the less rates have not been quoted to any other State/Centre Government Organization/PSU under similar terms and conditions anywhere in India.	
Proof of OEM.	
Copy of authorization letter from OEM, if bidder is not OEM.	
Copy of GST Number.	
Bidder/OEM should have a local support set up preferably in <b>Himachal Pradesh</b> till the expiry of warranty period. (Undertaking/ list of local service centre to be submitted)	
Letter of authorization in respect of the person authorized to remain present during proceeding of the same.	
The OEM should have been present in India for the last 10 Years either directly or through its National Distributor. Proof for the same to be attached.	
The OEM and its Bidder must have ISO Certificate. Proof for the same to be attached.	
EN, UL, FCC & CE Certificates of the quoted products to be enclosed	
Any other important/relevant document pertaining to bid, if any.	

## **8. FINANCIAL BID/BOQ**

- i. Price quoted by the bidder in the BOQ should be uploaded in financial bid folder. **No hard copy to be submitted.**
- ii. Rates to be quoted must be definitive and shall not be allowed to be altered.
- iii. Price to be quoted should be inclusive of all taxes, installation charges, duties and F.O.R. in the office of the undersigned. Rates be quoted in terms of unit, in words and figures both.
- iv. Tender will be awarded taking into consideration **the rate of the complete camera system including installation charges.**

## **9. PROCEDURE OF FINALIZATION OF BIDS**

i. Firstly, the technical bid shall be opened. At the time of opening of bid, the authorized representative may remain present. Technical bids will be evaluated in consonance with eligibility criteria and technical specifications mentioned in the tender. The bidder must submit brochures/pamphlets/leaflets/literature of quoted item (s) for technical evaluation with technical bid.

ii. The information submitted by the bidders shall be compared with specifications given in the tender form. It will thus be ascertained whether the product offered by the bidder matches with the specification of the Purchaser as given in the Technical Specifications in this tender document.

iii. The committee would be entitled to call for any further information, document, undertaking and may also interview the authorized representative of the bidder in order to satisfy itself about the eligibility of the bidder, technical specifications of the equipment, trust worthiness of the product. The decision of the committee on technical suitability of the offer shall be final.

iv. All the technically qualified bidders (After document scrutiny stage) shall be asked to submit sample of quoted product for field trial. The bidders shall have to submit the same within 10 days of the request. Field trial of the offered equipment will be conducted by a Departmental Technical Committee in the presence of representative/engineer of the concerned firm at Shimla. All the parameters as per given technical specifications will be demonstrated and tested during the trial by the bidder. The demonstrations/field trial and any damage shall be at the cost of bidder.

**Note: If Technical Committee is satisfied with the performance of the equipment, the concerned bidder will be considered as technically qualified for financial evaluation.**

v. **Financial bids/BOQ** of only technically qualified bidders shall be opened. Rest bids shall not be considered and such short-listed bidders will be intimated about the date and time accordingly. At the time of the opening of Financial Bids/BOQ, authorized representatives may remain present. It shall not be obligatory to accept only the lowest financial bid.

vi. All or any bid may be rejected. The essence is that only such bid that in the opinion of the Purchase Committee or the DGP HP is most suitable for HP Police shall be selected.

## **10. DELIVERY PERIOD**

1. Purchase order and installation of whole equipment shall be executed with in 45 days from the date of issue of the order.

2. The supply and installation shall be executed in the office of the undersigned.



## **11. RIGHT TO VARY QUANTITIES**

The Purchase Committee or the DGP HP reserves the right to vary the quantity within the validity of the contract without any change in price or other items and conditions with commensurate increase or decrease in delivery period. The approximate requirements are given in the tender document. But it must be clearly understood that the demand may fluctuate and no definite quantity can be guaranteed. Bidder shall be bound to supply the item(s) in such a quantity as required by H. P. Police.

## **12. CONSIDERATION – Price, Taxes etc. and Payment Terms**

- i. The supplied equipments will be tested/surveyed/inspected in our office and if found as per technical specifications of tender document and to the entire satisfaction of the deptt., payment will be released.
- ii. The prices quoted for the items shall be firm throughout the period of agreement and shall not be subject to any upward modification whatsoever.

## **13. PENALTY CLAUSE**

In case the firm does not complete the supply and installation within in the stipulated time as prescribed in the tender document, then liquidated damages charges will be imposed @ 0.5% per week i.e. 2% per month subject to 10% maximum on total value of the items. Delivery period can be extended with / without L.D. maximum for 60 days on the request of Bidder / Supplier by the competent authority, while considering merits and demerits of the case. Extension of delivery period will be the sole discretion of the Purchase Committee, HP Police, Shimla-2.

## **14. TERMINATION FOR DEFAULT**

The Purchase Committee or the DGP HP may, without prejudice to any remedy for breach of contract, by written notice of default sent to the bidder, terminate the agreement in whole or in part if:

1. The Bidder fails to perform any or all of the obligations within the time period(s) specified in the tender document or any extension thereof granted by the Competent Authority.
2. The quality of the supplied equipment is not up to the satisfaction of the Competent Authority.
3. The Bidder fails to perform any other obligation under the agreement.
4. The Purchase Committee or the DGP HP may at any time terminate the contract by giving written notice to the bidder without compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy, which has occurred thereafter to the Competent Authority.

5. In case of termination of contract as mentioned above all FDR/Bank Guarantee furnished by bidder shall stand forfeited.

**15. ARBITRATION**

All disputes shall be settled in courts of competent jurisdiction situated in Shimla.

**16. WARRANTY**

The bidder shall provide onsite **warranty for 36 months.**

**17. OTHER CONDITIONS**

The Director General of Police HP/ Purchase Committee may cancel the tender and all proceedings relating there to without assigning any reason. The decision of the authorities shall be final as regards the acceptability of tendered items and items supplied by the bidder and they shall not be required to give any reason in writing otherwise at any time for rejection of the tender or items.

**18. TRAINING**

The successful/L1 firm shall impart training to Police Personnel on operation of equipment free of cost as per date, time and venue to be decided by the Deptt. after procurement .

**18. PERFORMANCE SECURITY DEPOSIT**

The successful bidder will be required to furnish a Security Deposit @ 10% of the total value of the contract in the shape FDR / Bank guarantee issued by any Indian Nationalized Bank. Performance Security shall remain valid for a period of sixty days from the date of completion of contract including warranty to the best of satisfaction of Procuring Department.

*SD/-*  
For Director General of Police,  
HP, Shimla-02

## TECHNICAL SPECIFICATIONS

<b>2MP FULL HD PTZ VEHICLE MOUNTED CAMERA.</b>	
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>
Pixel	2 Megapixel
Image Sensor	1/2.8" Exmor CMOS
Electronic Shutter Speed	1/1 -1/30,000s
S/N Ratio	More than 55Db
Backlight Compensation	Auto(ICR) / Color / B/W
White Balance	BLC / HLC /DWDR
Gain Control	Auto, ATW, Indoor, Outdoor, Manual
Noise Reduction	Auto / Manual
Optical Zoom	2D / 3D
Focal Length	4.5mm - 135mm (30 x)
Max Aperture	F1.6-F4.4
Focus Control	Auto / Manual
Angle of View	H: 67.8°-2.77°
Compression	H.265 / H.264 / MJPEG
Resolution	1080P(1920×1080) / 720P(1280×720) / D1(704×576/ 704×480) /CIF(352×288/352×240)
Main Stream:	25/30fps@1080P /720P
Sub Stream:	25/30fps@D1/CIF
Ethernet	RJ-45 (10/100M)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour
Max. User Access	32 users
Smart Phone	Should support iPhone, iPad, Android, Windows Phone
Pan Range	360° endless
Pan Speed	0.1° -80°/sec;
Tilt Range	-90° - 90°
Tilt Speed	0.1° -60°/sec
Positioning Accuracy	±0.01°
Preset	255
Tour	8
Pattern	5
Auto Scan	5
Wiper	Support
IR Distance	150m or better
Power Supply	DC 12V (10.8V-18V)
Power Consumption	<60W
Working Environment	-30°C - 65°C
Protection	IP66, All-metal aluminum alloy, 6000V anti-lightning surge

## TECHNICAL SPECIFICATIONS

2MP IR VEHICLE MOUNTED CAMERA WITH FIXED LENS.	
PARAMETERS	TECH. SPECIFICATIONS
Pixel	2 Megapixel or better
Image Sensor	1/2.8" CMOS
Effective Pixels	1920 x 1080
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3-1/100000s
Minimum Illumination	0.009Lux/F2.0( Color,1/3s,30IRE),0.07Lux/2.0( Color,1/30s,30IRE),0Lux/F2.0(IR on)
S/N Ratio	More than 50Db
IR Distance	Distance up to 30m
IR On/Off Control	Auto/ Manual
Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm
Max. Aperture	F2.0 (F2.0, F2.0)
Angle of View	H: 110° (87°, 51°), V: 58° (48°, 30°)
Video Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	Triple Streams
Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/704×480) / VGA (640×480)/ CIF (352×288/352×240).
Frame Rate	Main Stream: 1080P(1~50/60fps),Sub Stream: D1(1~50/60fps),Third Stream: 1080P(1~25/30fps)
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Connectivity	M12 D-Coding(10/100Base-T)
Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS, Local PC for instant recording, Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari

Management Software	Smart PSS, DSS, Easy4ip
Smart Phone	IOS, Android
Pan/Tilt/Rotation Range	Pan:0°-20°; Tilt:±15°; Rotation:0°-360°
Advanced Intelligent Functions	Tripwire, Intrusion, Object Abandoned/Missing Face Detection
Certifications	EN, UL, FCC, CE.
Audio Interface/ Alarm	1/1 channel In/Out
Power Supply	M12: PoE (802.3af)(Class 0)
Operating Conditions	-40° C ~ +70° C (-40° F ~ +158° F) / Less than 95% RH
Ingress Protection	IP67, IK10, Metal Body
Casing	Metal

## TECHNICAL SPECIFICATIONS

<b>MOBILE VIDEO RECORDER 4 CHANNELS POE WITH 1 TB HDD.</b>	
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>
Main Processor	Main Processor
Operating System	Operating System
<b>Video and audio</b>	
IP Camera Input	IP Camera Input
Two-way talk	Two-way talk
<b>Display</b>	
Interface	1VGA, @TV, 1 HDMI
Resolution	4 Ch at 2 MP recording
Display Split	1/4
Privacy Masking	Privacy Masking
OSD	Channel name, time, GPS, License No.
<b>Recording</b>	
Video Compression	H.265/smart H.265 /H.264/smart H.264
Audio Compression	G.711A/G.711U/PCM
Resolution	4 ch@4MP realtime recording
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
Record Interval	1-120 min (default: 60 min), Pre-record: 1-30 sec, Postrecord:10-300 sec
<b>Video Detection and Alarm</b>	
Trigger Events	Recording, PTZ, Tour, Alarm, Email, FTP, Buzzer & Screen tips
Video Detection	Motion Detection, Video Loss & Tampering etc.
Alarm input	9 channels.
Alarm Output	2 channels.
<b>Playback and Backup</b>	
Playback	1 Channel
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next file, Previous file, next Camera, Previous Cameras, Full Screen, Repeat, Shuffle, Backup Selection, Digital zoom.
Backup Mode	USB Device/network.
<b>Storage</b>	
Internal HDD	1 HDD 1TB with supply and should support upto 2 TB
SD card	Should support 1 SD card upto 256 GB
<b>Network</b>	
Ethernet	RJ-45 Port (10/100Mbps)
Wireless Network	Built-in 3G/4G/Wi-Fi module
GPS	Built-in high accurate GPS module
Network Function	TCP/IP, UDP, DHCP, DDNS, FTP, Email, Alarm Server

Max. User Access	128 users
Smart Phone	Should support iPhone, iPad, Android
<b>Auxiliary Interface</b>	
USB	2USB 2.0 or better
Connectivity	RS232: 2 Ports or more, RS4852 Ports: 2 Ports or more.
<b>Electrical</b>	
Power Supply	DC 6V-36V
Power Consumption	<10.2W (Without HDD)
<b>Environmental</b>	
Operating Temperature	-30°C - +70°C (-22°F - +158°F)
Operating Humidity	10 - 90% RH
Certifications	CE,FCC,EN50155,ISO, BIS,E-mark EN45545-2.

**TECHNICAL SPECIFICATIONS**

<b>COLOUR LIQUID CRYSTAL DISPLAY DEVICE</b>	
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>
Display Device	Color Liquid Crystal Display (LCD)
Picture Area	7-in. Widescreen
Panel Type	TFT-LCD
Backlight	LED
Connection Type	M12 A-coding
Resolution	800 x 480 or better
Effective Display Area	6"x3" or better
Brightness	350 cd/m <sup>2</sup>
Contrast Ratio	500:1
Field Frequency	50 Hz, 60 Hz, 75 Hz
Response Time	25 mm
Power	6 VDC to 36 VDC, < 7.5 W
Working Temperature	-10° C to 60° C (-14° F to +140° F)

**TECHNICAL SPECIFICATIONS**

<b>NETWORK CONTROL KEYBOARD</b>	
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>
Keyboard Key panel	Electro mechanical
Joystick	3-axis, vector-solving, with twisting, return to-center head
Keyboard Connector	RJ-45, RS232, RS485, USB
Keyboard Communication	Direct Mode, Network Mode
Direct Mode	Interface: RS232/RS485, Dome Protocol: PELCO-D/PELCO-P/PELCO-D1/PELCO-P, etc
Network Mode	Interface: RJ45,DVR/Network Dome:IP Address/Port/Protocol
Display	LCD, 75.2mm×33.85mm
Power Supply	Power adapter, input 100V-240V 50Hz/60Hz, output DC12V/1000mA
Power Consumption	5W
Working Temperature	-10° C - +55° C
Working Humidity	10% - 90%



**FORM- I**

**(To be Enclosed with Technical Bid)**

Bidder's Reference Number and Date:		
Bidder's Name and Address:		
Person to be contacted:		
Designation:		
Telephone No.	Fax No.	E-mail Id-

To,  
The Director General of Police,  
Himachal Pradesh, Shimla-171002.

**Subject:- Tender for supply and installation of Vehicle Mounted Camera Systems.**

Dear Sir,

We, the undersigned, having read and examined in detail the specifications and all tender documents in respect of “**Tender for Vehicle Mounted Camera System**” and do hereby propose to make the supplies mentioned in the Tender Document.

**Price and Validity:** All the prices mentioned in our tender are in accordance with the terms as specified in the proposal documents. We do hereby confirm that our offer includes all taxes, duties, charges, commissioning, installation, F.O.R. destination etc. We agree to abide by this bid for a period of 6 months from the bid opening date and it shall remain binding upon us and may be accepted at any time before the expiry of that period. This bid together with your written acceptance thereof and your notification of award shall constitute a binding contract between us. During the period, the HP Police will have right to demand additional quantity.

**Deviations:-** We declare that all the services shall be performed strictly in accordance with technical specifications and other conditions of the Tender documents except the deviations as mentioned in the /Technical Compliance Statement (Form-IV) and Deviations from tender document conditions (Form-V).

**Time Schedule:** We further declare that we have the capacity and shall deliver and install entire material with in 45 days from the date of purchase order.

**Proposal Pricing:-** We further declare that the prices stated in our bid are in accordance with your terms and conditions in the tender document.

**Qualifying Data:** We confirm having submitted qualifying data as required by you in your tender document. In case you require any further information/documentary proof in this regard before evaluation of our bid, we agree to furnish the same.

**Performance Security:** We hereby declare that in case the tender is awarded to us, we shall submit Bank Guarantee as per terms and conditions of the tender document.

We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of our knowledge and belief and nothing is concealed.

The bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

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

The undersigned is competent and duly authorized by the bidder company/entity to sign this document.

Thanking You

Yours Faithfully

**(Signature)**

Name: -----

Date: -----

Seal: -----

**Business Address:** -----

## (Technical form to be enclosed with Technical Bid)

**Particulars and Eligibility of the Bidder Particulars of the Organization**

(TO BE FILLED UP BY THE BIDDER)

<b>S. No.</b>	<b>Particulars</b>	<b>Bidder Statement</b>
1.	Tender for the item.	
2.	Name and full address of the Bidder.	
3.	Registered Office with full address, Telephone No(s), Fax no(s), E-mail address, Website URL.	
4.	Name of Manufacturing company	
5.	Purchase order received from Govt./ Semi-Govt offices/PSU in respect of proposed/similar equipment for last three years as per FORM -III	
6.	The OEM either directly or through its bidder must have supplied & installed successfully at least 10 numbers of vehicle mounted camera to Govt./Semi-Govt. offices, PSU. in India. Proof for the same to be attached.	
7.	Annual turn over of the bidder and OEM should be attached as per FORM -VII	
8.	GST Registration No. (Central and State).	
9.	At the time of bid, bidder must not be blacklisted from any Govt. Organization / Body.	
10.	If Bidder is not OEM, the same should be authorized by OEM (Original Equipment Manufacturer) to quote against this tender. Proposal without proper letter of authorization shall be rejected.	<b>FORM- VIII Attached</b>
11.	Copy of proof of OEM is required to be attached.	
12.	Authorization from OEM.	Proof to be attached.
13.	The OEM should have been business in India for the last 05 Years either directly or through	Proof to be attached.

	its National Distributor.	
14.	The OEM and its Bidder must have ISO Certificate	Proof to be attached.

**(Signature)**

Name: -----

Date: -----

Seal: -----

**FORM - III**

**PERFORMANCE STATEMENT**

<b>S. no</b>	<b>Financial Year</b>	<b>Name &amp; address, of purchaser to whom items have been supplied</b>	<b>Description of the sold Vehicle mounted camera or CCTV Camera System</b>	<b>Quantity</b>	<b>Purchase Order No. &amp; Date issued by Purchaser</b>	<b>Value of contract / Purchase Order</b>

As of this date, the information furnished in all parts of this form is accurate and true to the best of my knowledge. I have no objection in getting this information verified by the Purchase Committee, HP Police Himachal Pradesh, Shimla-2 in any covert or open manner, as may deem fit.

**Date:** -----

**Place:** -----

**Signed:** -----

**Name:** -----

**Designation:** -----

**For and on behalf of:** -----

**TECHNICAL COMPLIANCE STATEMENT**

Detailed Compliance Statement is to be provided by all bidder. Failure to provide compliance will lead bid being summarily rejected.

**MAKE AND MODEL OF 2MP FULL HD PTZ VEHICLE MOUNTED CAMERA.**\_\_\_\_\_

PARAMETERS	TECH. SPECIFICATIONS	Compliance Yes/No	Deviation, if any.
Pixel	2 Megapixel		
Image Sensor	1/2.8" Exmor CMOS		
Electronic Shutter Speed	1/1 -1/30,000s		
S/N Ratio	More than 55Db		
Backlight Compensation	Auto(ICR) / Color / B/W		
White Balance	BLC / HLC /DWDR		
Gain Control	Auto, ATW, Indoor, Outdoor, Manual		
Noise Reduction	Auto / Manual		
Optical Zoom	2D / 3D		
Focal Length	4.5mm - 135mm (30 x)		
Max Aperture	F1.6-F4.4		
Focus Control	Auto / Manual		
Angle of View	H: 67.8°-2.77°		
Compression	H.265 / H.264 / MJPEG		
Resolution	1080P(1920×1080) / 720P(1280×720) / D1(704×576/ 704×480) /CIF(352×288/352×240)		
Main Stream:	25/30fps@1080P /720P		
Sub Stream:	25/30fps@D1/CIF		
Ethernet	RJ-45 (10/100M)		
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour.		
Max. User Access	32 users		
Smart Phone	Should support iPhone, iPad, Android, Windows Phone		
Pan Range	360° endless		
Pan Speed	0.1° -80°/sec;		
Tilt Range	-90° - 90°		
Tilt Speed	0.1° -60°/sec		
Positioning Accuracy	±0.01°		
Preset	255		
Tour	8		
Pattern	5		
Auto Scan	5		
Wiper	Support		
IR Distance	150m or better		
Power Supply	DC 12V (10.8V-18V)		

Power Consumption	<60W		
Working Environment	-30°C - 65°C		
Protection	IP66, All-metal aluminum alloy, 6000V anti-lightning surge		
<b>MAKE AND MODEL OF 2MP IR VEHICLE MOUNTED CAMERA WITH FIXED LENS-----</b>			
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>		
Pixel	2 Megapixel or better		
Image Sensor	1/2.8" CMOS		
Effective Pixels	1920 x 1080		
Scanning System	Progressive		
Electronic Shutter Speed	Auto/Manual, 1/3-1/100000s		
Minimum Illumination	0.009Lux/F2.0( Color,1/3s,30IRE),0.07Lux/2.0( Color,1/30s,30IRE),0Lux/F2.0(IR on)		
S/N Ratio	More than 50Db		
IR Distance	Distance up to 30m		
IR On/Off Control	Auto/ Manual		
Lens Type	Fixed		
Mount Type	Board-in		
Focal Length	2.8mm		
Max. Aperture	F2.0 (F2.0, F2.0)		
Angle of View	H: 110° (87°, 51°), V: 58° (48°, 30°)		
Video Compression	H.265+/H.265/H.264+/H.264		
Streaming Capability	Triple Streams		
Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/704×480)/ VGA (640×480)/ CIF (352×288/352×240).		
Frame Rate	Main Stream: 1080P(1~50/60fps),Sub Stream: D1(1~50/60fps),Third Stream: 1080P(1~25/30fps)		
Day/Night	Auto(ICR) / Color / B/W		
BLC Mode	BLC / HLC / WDR(120dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	Off / On (4 Zone, Rectangle)		
Region of Interest	Off / On (4 Zone)		
Smart IR	Support		
Digital Zoom	16x		
Flip	0°/90°/180°/270°		
Mirror	Off / On		
Privacy Masking	Off / On (4 Area, Rectangle)		
Connectivity	M12:M12 D-Coding(10/100Base-T)		
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP		
Interoperability	ONVIF, PSIA, CGI		
Streaming Method	Unicast / Multicast		
Max. User Access	10 Users /20 Users		

Edge Storage	NAS, Local PC for instant recording, Mirco SD card 128GB		
Web Viewer	IE, Chrome, Firefox, Safari		
Management Software	Smart PSS, DSS, Easy4ip		
Smart Phone	IOS, Android		
Pan/Tilt/Rotation Range	Pan:0°-20°; Tilt:±15°; Rotation:0°-360°		
Advanced Intelligent Functions	Tripwire, Intrusion, Object Abandoned/Missing Face Detection		
Certifications	EN50155, UL, FCC: FCC Part 15 Subpart B, CE.		
Audio Interface/ Alarm	1/1 channel In/Out		
Power Supply	M12: PoE (802.3af)(Class 0)		
Operating Conditions	-40° C ~ +70° C (-40° F ~ +158° F) / Less than 95% RH		
Ingress Protection	IP67, IK10, Metal Body		
Casing	Metal		
<b>MAKE &amp; MODEL OF MOBILE VIDEO RECORDER 4 CHANNELS POE WITH 1 TB HDD---</b>			
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>		
Main Processor	Main Processor		
Operating System	Operating System		
<b>Video and audio</b>			
IP Camera Input	IP Camera Input		
Two-way talk	Two-way talk		
<b>Display</b>			
Interface	1VGA, @TV, 1 HDMI		
Resolution	4 Ch at 2 MP recording		
Display Split	1/4		
Privacy Masking	Privacy Masking		
OSD	Channel name, time, GPS, License No.		
<b>Recording</b>			
Video Compression	H.265/smart H.265 /H.264/smart H.264		
Audio Compression	G.711A/G.711U/PCM		
Resolution	4 ch@4MP realtime recording		
Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop		
Record Interval	1-120 min (default: 60 min), Pre-record: 1-30 sec, Postrecord:10-300 sec		
<b>Video Detection and Alarm</b>			
Trigger Events	Recording, PTZ, Tour, Alarm, Email, FTP, Buzzer & Screen tips		
Video Detection	Motion Detection, Video Loss & Tampering etc.		
Alarm input	9 channels.		
Alarm Output	2 channels.		
<b>Playback and Backup</b>			
Playback	1 Channel		





Field Frequency	50 Hz, 60 Hz, 75 Hz		
Response Time	25 mm		
Power	6 VDC to 36 VDC, < 7.5 W		
Working Temperature	-10° C to 60° C (-14° F to +140° F)		
<b>MAKE &amp; MODEL OF NETWORK CONTROL KEYBOARD----</b>			
<b>PARAMETERS</b>	<b>TECH. SPECIFICATIONS</b>		
Keyboard Key panel	Electro mechanical		
Joystick	3-axis, vector-solving, with twisting, return to-center head		
Keyboard Connector	RJ-45, RS232, RS485, USB		
Keyboard Communication	Direct Mode, Network Mode		
Direct Mode	Interface: RS232/RS485,Dome Protocol: PELCO-D/PELCO-P/PELCO-D1/PELCO-P, etc		
Network Mode	Interface: RJ45,DVR/Network Dome: IP Address/Port/ Protocol		
Display	LCD, 75.2mm×33.85mm		
Power Supply	Power adapter, input 100V-240V 50Hz/60Hz, output DC12V/1000mA		
Power Consumption	5W		
Working Temperature	-10° C - +55° C		
Working Humidity	10% - 90%		

Signed by: -----

Name: -----

**Designation:** -----

**For and on behalf of:** -----

**FORM - V**  
**Deviations from Tender Document Conditions**

<b>Sl no</b>	<b>Clause no</b>	<b>Page no</b>	<b>Deviations</b>	<b>Reasons</b>
1				
2				
3				
4				

Date: -----

Place: -----

Signed: -----

Name: -----

Designation: -----

For and on behalf of: -----

**FORM – VI**

**(Prices to be submitted online in BOQ only. No hard copy to be submitted)**

**FORM – VII**

**FINANCIAL STATUS**

( must be enclosed with the “Technical Bid” as given below )

Financial Status of bidder (Supplier) within last three years

Full Name of Bidder (Supplier) Firm :			
Full Address of Bidder (Supplier) Firm :			
Phone No. :			
Fax No. :			
E-mail :			
S.N o.	Financial Year	Annual Turnover of Bidder (Supplier) Firm in Indian Rupees	Audited Balance sheet enclosed ( Page No. )
1	2	3	4
1			
2			
3			
<b>Annual Turnover of OEM</b>			

For this F.Y. the balance sheet need not be duly audited by C.A.

Signature .....

Name .....

& Seal of the Bidder (Supplier)

**FORM - VIII**

**Following Declaration duly filled in must be enclosed with the “Technical Bid” as given below :-**

**:: DECLARATION ::**

I, (Name of M.D./ Proprietor of firm).....son  
of.....of M/s (Name of firm and full  
Address).....

.....have read all the Terms and Conditions  
of the tender given above. These are acceptable to me. Earnest Money in the form of FDR / Bank  
Guarantee (Made with any Indian nationalized Bank) of Rs.....(In words)  
..... in favour of The DDO,  
PHQ, Shimla-2 payable at Shimla, is enclosed herewith.

I, (Name of M.D./ Proprietor of firm).....son  
of.....of M/s (Name of firm and full  
Address).....

.....certified that we are registered and  
experienced firm for this work and truly manufacturing / trading since .....(date) We also  
certified that we are **not black listed** by any state or central Govt. / University / Bank / Corporation /  
Autonomous institute etc. Each page of tender documents is duly signed with seal by us. We undertake to  
adhere the ethical commitment as required in this tender mandated by the law.

Place : .....

Date : .....

**Signature .....**

**Name & Seal ..... of the Bidder  
(Supplier)**