



བགྲིས་བཅད་དོན་བརྒྱད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

TASHI INFOCOMM LIMITED

BIDDING DOCUMENT FOR SUPPLY OF

“SECURITY CAMERA AND ACCESSORIES”

Reference No: TICL/PRO-08/2021/ 337

Date: 04 / 03 / 2021



Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com



བགྲིས་བརྒྱ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

**SECTION-I
INVITATION OF BIDS FOR SUPPLY OF**

“Security Camera and Accessories”

1. Tashi InfoComm Limited hereinafter referred to as **“Purchaser”** invites sealed bids from eligible Bidders for the supply of Security cameras and other accessories.
2. Interested eligible bidder(s) may obtain further information on the bid form directly from our website- www.tashicell.com or Procurement & Inventory Section, Norzin Lam, Post Box No. 1502, Thimphu, Bhutan. Contact Procurement & Inventory Section at the given contact details during office hours Only.
3. The Purchaser shall not be responsible for any costs or expenses incurred by the Bidder(s) in connection with the preparation or delivery of Bids.
4. All Bidders/Representatives of the Bidders may be present during the Opening of the Bidding Documents.
5. All correspondences with regard to the Bidding Documents shall be made in writing or email to the following address. Telephone enquires shall not be accepted.

Address for communication/contact.

Procurement & Inventory Section,
Tashi InfoComm Limited,
Norzin Lam, Post Box No-1502,
Thimphu, Bhutan.
Email:

procurement@tashicell.com/manager.procurement@tashicell.com/procurement.finance@tashicell.com



Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com



བགྲིས་བརྒྱ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

SECTION-II INSTRUCTION TO BIDDERS

A. GENERAL

1. Scope of Bid:

- 1.1. The scope of Bid shall be the supply of Security Cameras and other Accessories.
- 1.2. All the Bids are to be completed and submitted to the Purchaser in accordance with the Instruction to Bidders.

2. Eligibility:

- 2.1. The invitation for Bid is open to all the interested licensed national and global suppliers.

3. Cost of Bidding:

- 3.1. The Bidder(s) shall bear all costs associated with the preparation and delivery of its Bids, and the Purchaser shall in no case be responsible or liable for those costs.

4. Bidding Documents:

- 4.1. The Goods/Services to be procured, Bidding procedures, and terms & conditions are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding Document includes:
 - a) Instructions to Bidders
 - b) General Terms & Conditions
 - c) Detail list of Goods/ and or Services to be supplied along with detailed specifications.
- 4.2. The Bidder(s) are expected to examine the Bidding Document, including all Instructions, Forms, Terms, and Specifications. Failure to furnish all information required by the Bidding Document or submission of a Bid not substantially responsive to the Bidding Document in every respect will result in rejection of the Bid.

5. Bid Prices:

- 5.1. The Bidder(s) shall complete the appropriate Price Schedule included herein, stating unit prices, extended amount and the expected countries of origin of the Goods to be supplied, if applicable
- 5.2. Prices quoted by the Bidders shall remain fixed and valid for the period stated in **Section-II, Clause 6** of the Bidding Document, and will not be subject to variation on any account.
- 5.3. The bid Currency shall be Ngultrum (Nu) for this bidding document. Except for third country bidder(s), the bidder(s) from the rest of the countries are not allowed to quote in US Dollar. The third country bidder(s) who quoted in US Dollar shall be converted into Ngultrum at the prevailing exchange rate (Selling TT rate of any financial institution) as on the date of tender opening for evaluation purpose.

5.4. Trade Terms shall be:

Unless otherwise stated, the following shall be the trade terms for this bidding document:

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com





བགྱིས་བརྩོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- a) CIF, TICL Warehouse, Thimphu for local bidders.
- b) CIF, TICL Warehouse, Phuentsholing for Indian and other third-country bidder(s).

6. Bid Validity:

- 6.1. The Bids shall be valid for 12 months days from the date of Bid Submission.

7. Taxes/Duties & other levies:

- 7.1. Unless otherwise stated, the applicable taxes/duties/any other levy both within and outside Bhutan shall be under the scope of the Bidder.
- 7.2. The third country bidder(s) or bidder(s) from India may exclude applicable taxes/duties within Bhutan while submitting the bid. The applicable taxes including customs clearance within Bhutan shall be under the scope of the Purchaser. However, applicable taxes/duties, etc shall be factored in during the time of evaluation to determine the final landing cost.

8. Evaluation:

- 8.1. The purchaser shall evaluate the quotations based on specifications given in the bidding document to ascertain the lowest evaluated bidder(s).
- 8.2. The evaluation shall not only be based on the quoted unit rate but the specifications and complete datasheet of the Security Cameras and other Accessories against the purchaser's requirement.
- 8.3. The Evaluation Team & Management Tender Committee's evaluation decision shall be final and binding, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform and explain the affected Bidder or Bidders on the grounds of the evaluation team & Management Tender Committee's evaluation decisions and reports. In addition, the performance of previous tenders with the Purchaser, if any shall also be factored in during the time of evaluation.
- 8.4. The lowest quoted unit rates alone do not guarantee the award of contract or Purchase Order.
- 8.5. The evaluation shall be based on the respective line-item basis. The bid shall not be considered as a "single package".

9. Award of Purchase Order/Contract:

- 9.1. The Purchaser shall award the PO or supply contract to the Lowest Evaluated bidder(s) for the respective line-item(s).

10. Delivery:

- 10.1. Delivery should be completed as per the given schedule:
 - a) Within 45-60 days from the date of confirmed PO depending on the nature of the items(s) awarded to the respective successful bidder(s).
 - b) The detailed terms & conditions shall be mentioned in the confirmed Purchase Order/Supply Contract.





བགྲིས་བཅད་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- 10.2. The purchaser (TICL) may provide delivery time extension beyond the actual delivery date taking into account the actual need-by-day and project schedule of TICL. However, subject to the approval of the Management Tender Committee after levying the Liquidity Damaged (LD) Penalty.
- 10.3. The Time Extension request/provided may not exceed 15 days at the maximum OR depend on the approval granted by the Management Tender Committee of the purchaser. The supplier has to send an email/in writing requesting a time extension with genuine reasons (along with supporting documentation).

11. Inspection of Goods:

- 11.1. The goods are subject to Physical Inspection upon delivery at TICL Warehouse and testing & commissioning in due course of time. The Goods found to be faulty, DOA, not meeting specifications/requirement of TICL after the final inspection, installation, and testing shall be rejected at the cost of the bidder.

12. Warranty (If applicable):

- 12.1. The Warranty shall be minimum 12 months from the date of delivery OR standard manufacturer's warranty, whichever is longer

13. Payment:

- 13.1. The Payment shall be made 100% against delivery within 7 working days from the date of receiving of Bill/Invoice.
- 13.2. Advance payment up to a maximum of 30% of the total PO value may be released at Purchaser's discretion against furnishing equivalent amount of bank guarantee for the advance payment valid 6 months beyond the delivery deadline.

14. TDS/FCT:

- 14.1. TDS (Tax Deduction at Source) and or FCT (Foreign Contract Tax) shall be deducted as per the existing Rules and Regulations of the Department of Revenue & Customs, Bhutan (wherever applicable).

15. EMD (Earnest Money Deposit):

- 15.1. The bidder should submit **not less than 2% of the total quoted value** as part of the EMD along with the quotation in the form of Demand Draft or Bank Guarantee from any of the financial institutions located in Bhutan. The bidder(s) other than Bhutanese national can furnish EMD from the financial institutions in their respective countries OR from any of the Bhutanese Financial Institutions. The EMD may be directly deposited into the Purchaser's bank account (please contact the purchase requesting for bank details via email).





བགྲིས་བཅད་དོན་བརྒྱད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- 15.2. The bidder(s) failing to submit the EMD as per the requirement shall result in the rejection/cancellation of their bid.
- 15.3. The EMD shall be valid for 30 days beyond the submission/submission deadline of the bidding document. The EMD should be drawn in favor of “**Tashi InfoComm Ltd., Norzin Lam, Thimphu, Bhutan**”.
- 15.4. EMD of unsuccessful bidder(s) shall be returned promptly after the finalization of the quotation.
- 15.5. EMD shall be forfeited if:
- a) A bidder withdraws its bids prior to the finalization of the bids in every respect.
 - b) The successful bidder fails to submit Performance Security as per the terms specified in the bidding document.
- 15.6. EMD of the successful bidder shall be returned promptly upon submission of Performance Security.
- 16. Performance Security:**
- 16.1. The successful bidder should submit not less than 10% of the total PO/contract value as Performance Security within 1 week from the date of PO/signing of the supply contract.
- 16.2. Performance Security shall be drawn in favor of “**Tashi InfoComm Ltd, Thimphu**” in the form of Demand Draft or Bank Guarantee or can be deposited directly into the purchaser’s bank account (contact purchaser via email requesting bank details).
- 16.3. Performance Security shall be valid for the period of **1 YEAR** from the date of Purchase Order/Supply Contract.
- 16.4. If the successful bidder fails to submit the performance security within 1 week, the EMD shall be forfeited and purchase order shall stand cancelled and awarded to the second lowest evaluated bidder.
- 16.5. Performance Security shall be returned within 1 week from the date of successful completion of all obligations under the issued Purchase Orders or signed supply contract.
- 16.6. Performance Security shall be forfeited if:
- a) The successful bidder fails to execute the supplies/works as per the terms and conditions stated in the purchase order in any manner deemed unsatisfactory by the purchaser (TICL) or the end-user(s).
 - b) The successful bidder fails to deliver the goods on the given deadline and is not recommended by the end-user(s) for a time extension or replacement.
 - c) The goods supplied do not conform to the specifications/brands/requirements, etc stated in the purchase order/BOM.





བཀྲིས་བཟོ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

17. Liquidity Damage (LD) Penalty:

- 17.1. The LD penalty shall be charged at 0.01% per day up to a maximum of 10% of the total PO value should the supplier fail to deliver on the specified deadline.

18. The purchaser Right:

- 18.1. The Purchaser reserves the following rights without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform and explain the affected Bidder or Bidders on the grounds of the Purchaser's action:
- a) The right to accept or reject any Bid and reject all the Bids at any time prior to issuance of Award Notification and or Purchase Order.
 - b) The right at the time of award of the purchase order to increase or decrease the quantity of Goods specified in the Bidding Document, without any changes in the price or other terms & conditions.
 - c) The right to reject all or in part, the item supplied during the time of physical inspection/testing or found to be non-standard/non-specific/unreliable in terms of quality/not meeting specification.
 - d) The right to direct negotiation, call quotations and receives the same via email from the manufacturers; authorized distributors; authorized dealers; frequent supplier(s) of similar goods in Bhutan/India/China/Other countries to compare the rates with those offered by the vendors through this Bidding Document. If need be, to procure directly. The Purchaser also reserves the right to negotiate with the lowest evaluated bidder(s) or all of the bidders at any time prior to award of Purchase Order/Signing of Supply Contract.
- 18.2. Should the selected Bidder(s) fail to supply full order quantity within the given deadline, the purchaser reserves the right to cancel the quantities not supplied and place the order to the Second Lowest Evaluated Bidder. In such a case, the Purchaser shall recover as part of Liquidated Damages, the difference amount between purchase order rate and the actual rate paid to the second-lowest evaluated bidder for the quantities not supplied. The amounts shall be either adjusted from the Performance Security or bill/invoice amount of the supplied quantity.
- 19. Force majeure:**
- 19.1. Force Majeure shall mean such unforeseeable occurrences beyond the control of the Purchaser and Bidder which occur after the date of issuance of Purchase Order or signing of Supply Contract and which were not reasonably foreseeable at the time of issuance of Purchase Order or signing of Supply Contract and which effects are not capable of being overcome without the unreasonable expense and/or loss of time to the Purchaser and the Bidder concerned, including, provided that the aforementioned conditions are met, but not limited to:
- i) Natural catastrophes, earthquakes
 - ii) Strikes and blockages
 - iii) War or war-like conditions, mobilizations, revolutions or riots, an act of Public enemy, sabotage, terrorism.





བགྲིས་བརྩོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- iv) Restriction by or actions, omissions, or interventions from Public Authorities (including but not limited to changes in laws, regulations or import/export, security restrictions).
- v) The Party who wishes to plead Force Majeure shall inform the other party of the First party's perception of the effects of such force majeure on the fulfillment of issued purchase order/signed Supply Contract. Should any event of force majeure cause an increase in the time required for the performance of any part of the purchase order/signed Supply Contract, an equivalent adjustment shall be made in the time required for performance.

However, if the force majeure situation continues for more than two months, the purchaser and bidder shall decide whether the contract should be terminated.

20. Termination:

- 20.1. In the event of any failure by the Bidder to perform any of its obligations under the issued purchase order or signed Supply Contract or upon unsatisfactory performance, the purchaser shall terminate the purchase order or signed Supply Contract by giving a prior written notice of Fifteen (15) days, without any obligation to the Bidder. However, the purchaser shall pay the actual due amount for the quantity supplied and accepted by the Purchaser to Bidder on termination of the issued purchase order or signed Supply Contract.

21. Indemnity:

- 21.1. The bidder(s) shall comply with all the laws in force in Bhutan and outside. The laws will include all national, provincial, municipal, or other laws that affect the performance of the issued purchase orders or signed Supply Contract and bind upon the Bidder(s). The Bidder(s) shall indemnify and hold harmless the Purchaser for and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever the nature arising or resulting from the violation of such laws by the Bidder(s).

22. Dispute Settlement:

- 22.1. If any dispute should arise in connection to the issued purchase order or signed Supply Contract, the Parties shall try to settle any such dispute through good faith and negotiations including escalation to senior Management where each party deems it appropriate. If negotiations fail, the matter shall be referred to the Court of Law.

23. Governing Law and Jurisdiction:

- 23.1. The terms and conditions in this Bidding Document or issued Purchase Order or signed Supply Contract shall be read and construed in accordance with the laws of the Kingdom of Bhutan and the District Court of Thimphu, Bhutan shall have jurisdiction over any disputes arising out of the Contract.





བགྲིས་བཅད་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

**SECTION-III
GENERAL TERMS & CONDITIONS:**

In this Bidding Document, the following terms shall be interpreted as indicated below:

“**The Bid**” means the proposal submitted by the Bidder

“**The Purchaser**” means the organization purchasing the Goods. In this case, M/s. Tashi InfoComm Limited (TICL).

“**Day**” means a calendar day.

1. **Bid Submission:** The Bids should be submitted in a sealed envelope (Single Envelope Method- **copy not required**) addressed to “**Manager, Procurement & Inventory Section, TICL** against Reference No. TICL/PRO-08/2021/337 dated 04-03-2021”.
2. **Bid Submission:** 11:00 Am (Bhutan Standard Time); 31-Mar-2021
3. **Bid Opening Time:** 2:30 pm : 31-Mar-2021 at TICL conference hall. Interested Bidder(s) may attend the bid opening on the given deadline and place.
4. Bidding Document received after the deadline (time & date of submission) shall not be accepted and opened during the bid opening. The quotations shall automatically stand as “Rejected”.
5. The Purchaser shall not be responsible for any damages, losses, breakages, or shortages of any items while in transit for delivery of Goods to TICL Store/warehouse.
6. The Bidder should enclose a Xerox copy of valid Trade License, Tax clearance, Power of Attorney, and other relevant documents.
7. **Clarification on Bidding Document:** The bidder(s) are expected to examine the Terms and Conditions stated in the Bidding Document, Bill of Materials, Specifications, Drawings, etc furnished along with the Bidding Document. Once the bids are submitted by the bidder(s), It shall mean:
 - a) The bidder(s) have examined, read, and accepted all the terms and conditions stated in the Bidding Document, the specifications of the goods/services, Drawings/Designs, etc furnished in the Bidding Document. Thereafter, no grievance, complaints, etc (whatsoever nature may be) shall be accepted.
 - b) The bidder(s) can seek clarification (through email/in writing) with regard to the terms & conditions of the Bidding Document, the specifications of the goods/services, Drawings/Designs, etc furnished in the Bidding Document before the submission of the Bids.





བགྲིས་བརྒྱ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- c) Clarification can be sought through email or in writing to any of the given officials during office hours. Email ID: manager.procurement@tashicell.com OR procurement.finance@tashicell.com OR procurement@tashicell.com.

Address: Manager, Procurement & Inventory Section, Tashi InfoComm Ltd., Norzin Lam, Post Box No. 1502, Thimphu, Bhutan.

8. The Bids not substantially responsive to the Bidding Document in every respect will result in rejection of the Bids.
9. For any complaints or grievances, the bidder(s) may write directly to the Management Tender Committee of the Purchaser through email. The Email ID is procurement@tashicell.com.
10. Product samples, catalog/brochures containing details technical and functional specifications shall be submitted along with the Bids wherever applicable. Failing which, shall result in rejection of the Bidding Document.
11. The decision of the Corporate/Management Tender Committee shall be final and binding.

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com





བགྲིས་བརྒྱ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

SECTION-IV

The complete **Bill of Materials (BOM)** is as stated in **Annexure-I**. The Bids should be submitted in the below format in your company Quotation Form.

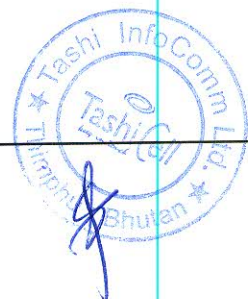
Appendix-I:

S/L	Description	UoM	Qty	Unit Rate	Amount
1.	1. Detail as given in Annexure-I				

Total

Note:

1. Please attached details of the technical and functional specification along with Bidding Doc. Failing to do so, will result in the rejection of your bidding document.
2. Mention the Country of origin of goods in the bidding document.
3. Submit Authorization/OEM certificate to establish its genuineness and originality of the product supplied. Failing this, the bid shall be rejected.
4. Mention your client details (for seeking feedback on the proposed/installed products) if any.





བགྲིས་བརྒྱ་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།
Tashi InfoComm Limited

Annexure-I: Price Schedule/Bill of Materials:

Sl. No	Item	Description	Unit	Qty	Rate	Amount
1	PTZ Camera	IP PTZ camera outdoor	No.	5		
2	Network Video Recorder	16 Channel NVR	No.	1		
3	Display Screen	32inch/42inch/50inch HD LED display	No.	1		
4	Dome Camera	IP Dome type camera indoor	No.	31		
5	Network Video Recorder	32 Channel NVR	No.	1		
6	Display Screen	42inch/50inch HD LED display	No.	1		
7	Bullet Camera	IP Bullet type camera outdoor	No.	4		
8	Network Video Recorder	4 Channel NVR	No.	1		
Total Amount						

SPECIFICATIONS:

PTZ Camera:

The IP surveillance system will be used to monitor the Tashicell Tower sites across the country. The cameras should be:

- IP PTZ camera outdoor
- IP PTZ camera shall be mounted on the tower at different locations for outside surveillance purpose.
- All cameras shall be true IP camera.
- All outdoor cameras shall be in IP-66 housing.
- All outdoor accessories for cameras like power supply, mounting structures etc. shall be in weather proof, dust proof housing and vandal proof.
- All CCTV cameras shall be able to have connectivity to non- PoE port of Tashicell Networking Devices.
- The power supply of PTZ camera should be -48V DC $\pm 10\%$.

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 . website: www.tashicell.com





བགྲིས་བརྒྱ་རྒྱ་བརྒྱ་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- Should support IP based and RJ45 remote camera control and IR remote control

Specifications:

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 4 Megapixel Very High Resolution
- Real Time streaming @ Full HD Resolution
- Triple Streaming for Recording & Monitoring
- Tri-codec: Ultra H.265, H.264, & MJPEG
- Built-in Smart IR LEDs to see in complete darkness
- Day & Night with True Night Function
- IP66 Ingress Protection
- Image Sensor: Min. of 1/ 2.8" CMOS
- Streaming: Triple (Live/ Recording with multi view)
- Zoom: 20x Optical Zoom
- Video Compression: Ultra H.265, H.265, H.264, M-JPEG
- Day & Night Mode: Yes (ICR)
- S/N Ratio: >55 dB
- Focus: Vari-focal, motorized
- Digital Zoom: Yes
- Distance: up to 100 m range
- Network Protocols: IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL, QoS
- Open IP Protocols: Yes, ONVIF
- Remote Access Client: Guard Station, Web Client, uMobile etc.
- Network Connectivity: 100M Base-TX Ethernet
- Panning Angle: 360° Continuous Rotation
- Power source: -48V DC (Input power)
- Operating Temp.: -40°C to 45°C
- Site Altitude (Min & Max): 1000 meters to 5000 meters

Network Video Recorder

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 16 Channel NVR
- Should be installable on a Windows PC.
- The NVR must be capable of recording minimum 50 cameras simultaneously.
- The NVR must be providing for a disk management system which will automatically reape old recordings to overwrite with new ones when max disk usage is reached
- Real-Time Recording @ Full HD
- Recording Resolution: 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1, 2CIF, CIF
- Display Rate: 1x4K@30 ips, 2x4MP@30 ips, 4x1080p@30 ips, 8x720p@30ips, 16 x D1
- Recording Throughput: >100Mbps
- Sync Playback: 8 Channel Synchronous Playback
- Record Mode: Schedule, Event, pre / post-event, panic recording
- Search Mode: Date/Time, Calendar, Event, Smart search, Motion Search

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com





བགྲིས་བཅད་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- Power Source: 220V AC Input power
- Operating temp.: -10°C ~ 55°C
- HDMI (up to 4K) and VGA (up to 1080p) Local Display
- Storage up to 8TB capacity (upgradable to 20TB)
- Various Scheduled Recording Modes/Camera, Advanced Search Engine & Playback Modes with Date/Time, Calendar
- Supports UPnP, NTP, DHCP, PPPoE, P2P
- Open IP protocol: Yes, ONVIF
- Network connectivity: 1x RJ45 100M/1000M adaptive Ethernet Interface
- Two-way Audio Communication

Display Screen:

Make: Samsung, Panasonic, LG, Sony or equivalent

Screen Size: 32inch/42inch/50inch HD LED display with all the accessories

Connectivity Port: 1 VGA Port, 2 HDMI Port

Power: 220V AC.

Dome Camera

The dome type IP surveillance system will be used to monitor the different offices across the country. The cameras should be:

- IP based camera indoor
- IP camera shall be mounted on the wall/ceiling for surveillance purpose.
- All cameras shall be true IP camera.
- All cameras shall be able to have connectivity to non- PoE port of Tashicell Networking Devices.
- The power supply of Camera should be 220V AC.

Specifications:

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 2 Megapixel Very High Resolution
- Real Time streaming @ Full HD Resolution
- Triple Streaming for Recording & Monitoring
- Tri-codec: Ultra H.265, H.264, & MJPEG
- Built-in Smart IR LEDs to see in complete darkness
- Day & Night with True Night Function
- IP66 Ingress Protection
- Image Sensor: Min. 1/ 2.8" CMOS
- Streaming: Triple (Live/ Recording with multi view)
- Video Compression: Ultra H.265, H.265, H.264, M-JPEG
- Day & Night Mode: Yes (ICR)
- S/N Ratio: >50 dB

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com





བགྲིས་བཅད་དོན་བརྒྱད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

- Distance: up to 30 m range
- Network Protocols: IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL, QoS
- Open IP Protocols: Yes, ONVIF
- Remote Access Client: Guard Station, Web Client, uMobile, etc.
- Network Connectivity: 10/100M Base-TX Ethernet
- View angle: 80 degree.
- Power source: 220V AC input power
- Operating Temp.: -10°C to 45°C

Network Video Recorder :

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 32 Channel NVR with storage of 8TB(expandable up to 20TB).
- Should be installable on a Windows PC.
- The NVR should have no limitations on the kind of storage to be used (RAID, NAS, etc).
- The NVR must be capable of recording 100 cameras simultaneously.
- The NVR must be providing for a disk management system which will automatically reap old recordings to overwrite with new ones when max disk usage is reached
- Real-Time Recording @ Full HD
- Recording Resolution: 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1, 2CIF, CIF
- Display Rate: 1x4K@30 ips, 2x4MP@30 ips, 4x1080p@30 ips, 8x720p@30ips, 16 x D1
- Recording Throughput: >100Mbps
- Sync Playback: 8 Channel Synchronous Playback
- Record Mode: Schedule, Event, pre / post-event, panic recording
- Search Mode: Date/Time, Calendar, Event, Smart search, Motion Search
- Power Source: 220V AC input power
- Operating temp.: -10°C ~ 55°C
- HDMI (up to 4K) and VGA (up to 1080p) Local Display
- Storage up to 8TB capacity (upgradable to 20TB)
- Various Scheduled Recording Modes/Camera, Advanced Search Engine & Playback Modes with Date/Time, Calendar
- Supports UPnP, NTP, DHCP, PPPoE, P2P
- Open IP protocol: Yes, ONVIF
- Network connectivity: 1x RJ45 10M/100M/1000M adaptive Ethernet Interface

Display Screen:

Make: Samsung, Panasonic, LG, Sony or equivalent
Screen Size: 42inch/50inch HD LED display with all the accessories
Connectivity Port: 1 VGA Port, 2 HDMI Port
Power supply: 220V AC input power.





བགྲིས་བད་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

Bullet Camera

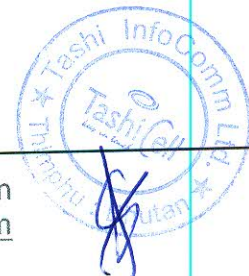
The bullet type IP surveillance system will be used to monitor the open yard store site. The cameras should be:

- IP based camera outdoor
- IP camera shall be mounted on the wall/ceiling for surveillance purpose.
- All cameras shall be true IP camera.
- All cameras shall be able to have connectivity to non- PoE port of Tashicell Networking Devices.
- The power supply of Camera should be 220V AC.

Specifications:

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 4 Megapixel Ultra High Resolution
- Real Time streaming @ Full HD Resolution
- Triple Streaming for Recording & Monitoring
- Tri-codec: Ultra H.265, H.264, & MJPEG
- Built-in Smart IR LEDs to see in complete darkness
- Day & Night with True Night Function
- Vandal Proof Casing, IP67
- Image Sensor: Min. 1/ 2.8" CMOS
- Streaming: Triple (Live/ Recording with multi view)
- Video Compression: Ultra H.265, H.265, H.264, M-JPEG
- Day & Night Mode: Yes (ICR)
- S/N Ratio: >50 dB
- Distance: up to 40 m range
- Network Protocols: IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL, QoS
- Open IP Protocols: Yes, ONVIF
- Remote Access Client: Guard Station, Web Client, uMobile, etc.
- Network Connectivity: 10/100M Base-TX Ethernet
- View angle: 78 degree.
- Power source: 220V AC input power
- Operating Temp.: -10°C to 45°C

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com





བགྱིས་བད་དོན་བརྒྱུད་འབྲེལ་ཚད་འཛིན།

Tashi InfoComm Limited

Network Video Recorder:

- Make: Hikvision, Panasonic, Unifi, Bosch or equivalent.
- 4 Channel NVR with storage of 8TB.
- Should be installable on a Windows PC.
- The NVR should have no limitations on the kind of storage to be used (RAID, NAS, etc).
- The NVR must be capable of recording 100 cameras simultaneously.
- The NVR must be providing for a disk management system which will automatically reap old recordings to overwrite with new ones when max disk usage is reached
- Real-Time Recording @ Full HD
- Recording Resolution: 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1, 2CIF, CIF
- Display Rate: 1x4K@30 ips, 2x4MP@30 ips, 4x1080p@30 ips, 8x720p@30ips, 16 x D1
- Recording Throughput: >100Mbps
- Sync Playback: 8 Channel Synchronous Playback
- Record Mode: Schedule, Event, pre / post-event, panic recording
- Search Mode: Date/Time, Calendar, Event, Smart search, Motion Search
- Power Source: 220V AC input power
- Operating temp.: -10°C ~ 55°C
- HDMI (up to 4K) and VGA (up to 1080p) Local Display
- Storage up to 4TB capacity (upgradable to 20TB)
- Various Scheduled Recording Modes/Camera, Advanced Search Engine & Playback Modes with Date/Time, Calendar
- Supports UPnP, NTP, DHCP, PPPoE, P2P
- Open IP protocol: Yes, ONVIF
- Network connectivity: 1x RJ45 10M/100M/1000M adaptive Ethernet Interface

Address: P.O Box # 1502, Norzin Lam, Thimphu: Bhutan
Phone: +975 77889977 website: www.tashicell.com

