

**GOVERNMENT OF WEST BENGAL**  
**OFFICE OF THE PRINCIPAL**  
**RAMKRISHNA MAHATO GOVT. ENGINEERING COLLEGE**  
**PURULIA, PIN-723103**

Memo No. 18/CA/RKMGECE/2022-23

Dated, Purulia the 19<sup>th</sup>-Jan-2023

**QUOTATION NOTICENO. :Spot-18/CA/RKMGECE/2022-23**

**Spot quotation for supply & Installation Close-Circuit camera at RKMGECE, Purulia**

Spot quotations are invited by the Principal, Ramkrishna Mahato Govt. Engineering College, Purulia for the supply & Installation Close-Circuit camera\_at RKMGECE, Purulia (details are given in college website <https://www.rkmgece.ac.in>)from the reputed agency. The quotation documents can be obtained from the office of the Principal, Ramkrishna Mahato Govt. Engineering College on any working day from 20.01.2023 to 30.01.2023 (11-00 A.M to 2-00 P.M.).

Quotation papers must be submitted in sealed envelope to the office of undersigned on or before 31.01.23 up to 12-00 P.M. addressed to the Principal, Ramkrishna Mahato Govt. Engineering College, Purulia and must be mentioning the subject mentioned above and Quotation No. Spot-18/CA/RKMGECE/2022-23 on the top of cover. The quotations will be opened at 1.30 P.M. on 31.01.23 in presence of the quotation owners willing to be present at that time in the Institute office.

Validity of offered rates should remain valid Up to 31.03.2023.

Copies of Income Tax, PAN, GST account details, Trade License for proprietorship firms must be enclosed along with the quotation papers.

The rate of the item(s) should be quoted **exclusive and inclusive all taxes**.

Items are to be supplied within 07days from receiving order.

The undersigned reserves the right to accept or reject any quotation without assigning any reason.

If the last day of Receiving Quotation/Opening Quotation happens to be holiday the quotation(s)will be opened on the next working day at the same time and place.



Principal

Dr. Bibek Chakrabarti

Ramkrishna Mahato Government Engineering College

Vill:- Agharpur, P.O.- Ramamoti, Block:- Joypur

District :- Purulia, Pin -723103

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Copy for information & necessary action to display this notice in his notice board to:-

1. The Sabhadhipati, Purulia Zilla Parishad, Purulia-You are requested to display this notice in your notice board.
2. The District Magistrate, Purulia-You are requested to display this notice in your notice board.
3. The SDO, Jhalda, Purulia-You are requested to display this notice in your notice board
4. Office of the Gram Panchayat, Baragram.
5. District information officer, Purulia- He is requested to upload the notice in district NIC portal.
6. Notice Board, Ramkrishna Mahato Govt. Engineering College, Purulia.
7. College website (<https://www.rkmgec.ac.in>).



Principal

Dr. Bibek Chakrabarti

**Principal**

Ramkrishna Mahato Government Engineering College

Vill:- Agharpur, P.O:- Ramchandrapur, Block:- Joypur

District :- Purulia, Pin-723103

Supply and Installation Closed Circuit(CC) Cameras

SI No.	Description of Work	Specification	Quantity	Rate in Rs./- excluding all taxes	Total price in Rs./- excluding all taxes	Rate in Rs./- including all taxes	Total price in Rs./- including all taxes
1	Supply of CC Plus /Dahua/ HikVision16 Channel NVR	As per <u>ANNEXURE-1</u>	1 no.				
2	Supply of TOSHIBA/ SEA GATE/ SAMSUNG 4 TB Hard Disk	As per <u>ANNEXURE-1</u>	1 nos.				
3	Supply of CC Plus /Dahua/ HikVision 2.4 MP IP Bullet Camera	As per <u>ANNEXURE-1</u>	14 nos.				
4	Supply of TP-Link/D-Link CC Plus 8 Port PEO Switch	As per <u>ANNEXURE-1</u>	1 no.				
5	Supply of TP-Link/ D-Link / CC Plus 4 Port PEO Switch	As per <u>ANNEXURE-1</u>	1 nos.				
6	Supply of D-Link/ RANZ /Digisol CAT 6 Cable	As per <u>ANNEXURE-1</u>	1 nos.				
7	Supply 4/4 box	As per <u>ANNEXURE-1</u>	14 nos.				
8	Supply 5 MTR Spike Board	As per <u>ANNEXURE-1</u>	1 no.				
9	Supply 2U NVR rack	As per <u>ANNEXURE-1</u>	1 no.				
10	Fitting, fixing and installation charge including all						

## ANNEXURE-1

### 16 CHANNEL NVR SPECIFICATIONS

#### KEY FEATURES

- H.265+/H.265/H.264/H.264+ Video Formats.
- Connectable To The Third-Party Network Cameras.
- Up to 16 Ip Cameras Can Be Connected & Recording At Up to 8 Mp Resolution.
- Supports Live View, Storage And Playback of The Connected Camera At Up to 8 Mp Resolution Hd Output.
- Hdmi & Vga Independent Outputs.

#### PRODUCT SPECIFICATIONS

Brand	Hikvision
Chassis	1 U
Network protocols	TCP, IP, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP & HTTPS
Hard Disc(SATA)/Hard Disc(Capacity)	2 SATA
Dimensions	385x315x52 mm
Recording Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, UXGA , 720p, VGA, 4CIF, DCIF, 2CIF, CIF, QCIF
Weight	? 1.8 kg
USB interface	2xUSB 2.0
Customer Care Number	1800 222 699
Audio input / Two-way audio in	1-ch, RCA (Linear, 1 K Ohm) 1-ch, RCA (2.0 Vp-p, 1 k Ohm)
Number of Channels	16
Capacity	Each Disk: Up to 8 TB
Bandwidth	Incoming: 160 Mbps & Outgoing: 80 Mbps
Voltage	12 V DC
Working Temperature	-10 to +55 deg C
Model	DS-7616NI-Q2
Power Consumption	? 15 W

Current	2.1 Amp
IP Video Input	16 Channel
Item Code	STCSREC0006
Interface	1, RJ-45 10, 100, 1000 Mbps self-adaptive Ethernet Interface
Working Humidity	10 to 90 %

### SURVEILLANCE HARD DISK SPECIFICATIONS

Digital storage capacity	1 TB
Hard Disk Interface	Serial ATA
Connectivity Technology	SATA
Special	Lower power consumption improved
Brand	Tosiba
Feature	Reliability in surveillance solutions
Hard disk form factor	3.5 Inches
Hard disk Description	Mechanical Hard Disk
Hard disk size	1 TB

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### About this item

- Toshiba SkyHawk 1TB Surveillance Hard Disk Drive 1Pcs
- Toshiba Seagate SkyHawk 1TB HDD is 3.5 inch HDD interface with SATA 6Gb/s and 64 Cache (MB). Image Perfect firmware supports 24x7 surveillance-optimized workloads tuned to record about 90% of the time and play back video footage the remaining 10%, and supports more cameras recording at higher resolutions than traditional drives
- Lower power consumption means a reduction in heat emissions, which improves reliability in surveillance solutions. Tarnish-resistant components help protect drive from environmental elements, increasing field reliability
- Best-Fit Applications are Network Video Recorders (NVR), Embedded Surveillance DVRs (SDVR), Hybrid Surveillance DVRs, and Surveillance DVRs
- 1 Year warranty of HDD. (Physical Damage and Burning are not covering in warranty.)
- OS Compatibility: MICRO SOFT WINDOWS 7, MICROSOFT WINDOWS XP, LINUX ETC.
- For performance-related issues in Seagate Internal SSD/ Internal HDD, contact Seagate Customer Care Toll free# 0008004401392 In case you are not satisfied the resolution provided the brand, please reach back to Amazon Customer Service for next steps.
- In an unlikely case of product quality related issue, we may ask you to reach out to brand's customer service support and seek resolution. We will require brand proof of issue to process replacement request.

## PoE SWITCH SPECIFICATIONS

Uplink Ports	Two 1000 Mbps Uplink Ports
PoE Ports	Four 10/100 Base-TX Ports
Total PoE Output	60W
PoE Standard	IEEE802.3af/at, 25.5W per port
Pin assignment	V+ (RJ45 Pin 4, 5), V- (RJ45 Pin 7,8)
LED Indicators	PWR PoE, Link/Act VLAN LED
Input voltage	100V-240V AC, 50/60Hz
Switching capacity	1.8 Gbps
MAC address table	2K
Traffic control	IEEE 802 3x full –duplex flow control
Thermal methods	Passive
Operating temperature	32°F – 104°F
Relative humidity	20% - 85% (non-condensing)
Power Supply	DC48 - 57V power adapter
Weight	1.1 lbs
Dimensions	5.2" x 3.4" x 1.1"
Certifications	UL, FCC

This is a cost effective commercial grade 4 Port PoE+ Switch that can supply data and power to up to 4 devices that are PoE or PoE+ compatible. It makes it easy to consolidate power and data for an IP camera in to one network cable for each camera. It is an unmanaged network switch and is 802.3af/at compliant. Our 4 port switches have two uplink ports to connect to the network, and directly to a NVR recorder. If you're unsure of how to use a PoE switch with your security camera system, we recommend reading our guide on how to setup an IP camera system on the network.

### Features

- Total of Four 10/100 Mbps PoE+ ports
- Up to 25.5W output per port
- Port 1 is capable of 60W output for use with High-PoE PTZ cameras such as our 4K PTZ Camera
- Total 60W PoE Power Budget
- Two Gigabit uplink ports
- Comes with external AC/DC power supply
- IEEE802.3x Flow control
- Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3af/at
- Surge protection for power port and data ports
- EMI standards complies with FCC, CE class B
- High quality construction yet cost effective compared to popular brand name switches
- Small size desktop switch

## Cat 6 Cable Specifications

A Cat 6 cable is used mainly for computer networks reaching a Gb, 1000 Mbps or one Gbps of data transfer speed (DTR) or higher. Characteristics are as follows:

- Consists of four pairs of copper wires, which are all utilized for data transfer
- Provides bandwidth of 250 MHz, speed up to 10 Gbps and may be stretched to 100 meters in length
- Provides more enhanced crosstalk and attenuation protection than its previous twisted pair cable versions.

The Cat 6 cable is supported by Ethernet networks, including 10BaseT, 100Base-TX, 1000 Base-T and 10 GBase-T.

### Category 6 Cable

Category 6 (CAT6) cable provides higher performance than CAT5e and features more stringent specifications for crosstalk and system noise.

The quality of the data transmission depends upon the performance of the components of the channel. To transmit according to CAT6 specifications, jacks, patch cables, patch panels, cross-connects, and cabling must all meet CAT6 standards. The CAT6 components are tested individually, and they are also tested together for performance. In addition, the standard calls for generic system performance so that CAT6 components from any vendor can be used in the channel.

Frequency	0-250 MHz ( minimum) 500 MHz maximum
Maximum Cable Length	100 meters for slower network speed (up to 1000 Mbps) and Higher network speeds over short distances. For Gigabit Ethernet, 55 meters max, with 33 meters in high crosstalk conditions.
Theoretical Top Speed	10 Gbps over 33-55 meters (110-165 feet) of cable

Standard gauges in conductors 22-24 AWG wire

### 2U Rack Specifications

Recommended uses for product	Indoor security
Brand	Crotomak
Connectivity Technology	Ethernet, Fire Wire, USB, Wi-Fi
Special Feature	Convenient and quick wall mounting
Indoor /Outdoor Usage	Indoor
Compatible Devices	Dvr or Nvr
Power source	Corded Electric
Connectivity Protocol	Wi-Fi
Controller Type	Push Button
Weight	3 Kg
Dimensions	10 x 10 x 10 in

## **About this item**

- Size: The Dimension Of 2U DVR rack Length x Width x Height : 40cm x 40cm x 15cm. Before Order, it compare this size with your DVR/NVR etc and be sure that this rack is the perfect size for your device.
- Use: You Can apply this 2U dvr rack for your CCTV DVR/NVR/WIFI Routers and other equipments to keep it safe, dust free and neat.
- Material: This 2U DVR rack is made from a dominant quality, high gauge sheet metal(iron) and powder coating process. The material we use for this rack is rustproof and Long lasting.
- This 2U rack is perfect and comfortable for viewing, Less space-consuming and Keeping your devices neatly stored. Its top and bottom surface has a space for cables. It has a provision which you can set a fan for cooling. It has 3 Power Plug Socket with cable.
- Wall Mount: 2U rack comes with wall mounting brackets. just open this brackets, reverse it and attach with the wall. Package Contains: 1 Rack, Screws, Nylon Sleeves, 2 Keys.

## **5 Mtr Spike board Specifications**

### Product Specification

Material	Plastic
Cord Length	1.5 Ft
Usage/Application	Electric Fittings
Number Of Sockets	6
Pin Type	3 Pin Socket

## **Product Description**

6 way power trip spike guard universal socket

## **4x4 Box Specifications**

Size(LXWXH)(Inches)	4 x 4 x 4 Inch
Shape	Square
Material	Corrugated Paper
Number of Ply	Single Wall 3 Ply
Color	Color
Country of Origin	Made in India



## Product Description

- Strength: Made from high GSM Paper, the Corrugated Boxes from Sriyug Print Production have a high strength rate and can be used for heavy packaging too.
- Reuse and Recycle: These boxes from Sriyug Print Production can be used many number of times with minimal loss of quality, these corrugated boxes help to the reduce the cost.
- Packaging: These Corrugated boxes from Sriyug Print Production are ideal for Ecommerce packaging and can be easily handled.
- Shipping Format: These products are shipped in bundled format.

## 2.4 MP IP CAMERA SPECIFICATIONS

### Product Specification

Camera Resolution	2.4 MP
Camera Range	15 to 20 m
Usage	Indoor and Outdoor Use
Camera Type	Wired Camera
Lens Size	3.6MM
Vision type	Day & Night
Brand	Hik vision
Frequency	50Hz
Camera Technology	Analog/Wired
Item weight	500 Grm.
Item Dimensions LxWxH	27x13x11 Centimeters
Included components	Camera, Screw, Covering for Connector
Power Supply	12 V Dc ( Power Consumption 7W
Weather Proof	IP67 ( Operating Temperature 0C – 30 +60 C
Max. Image Resolution	192. x 1080
Stream Type	50 Hz :- Up to 50fps (1920 x1080, 1280 x720 ) 60 Hz :- Up to 60 fps ( 1920 x 1080, 1280 x 720 ) High f
Network Proerties	Image Frame Rate : 25 fps Inerfae : 1RJ45 10M/100M Ethernet interface Network Protocols : TCP/IP,ICMP,HTTP HTTPS,FTP, DHCP,DNS,DDNS PPPoE, NTP, UPnP, SMTP, IGMP,802.1 IGMP,802