DETAILED TENDER NOTICE

1.   APS Kaluchak invites tenders from reputed vendors/Agencies/Firms having GST No for the items mentioned as under: -

S No	Details	Specification
(a)	Purchase of School Bus 32 Seater Details :- (a) Seating Capacity : 32 (31+1) (b) Engine : BS VI (c) Seating Layout : 2x 2 (For additional details ref technical specification in school website)	Detailed specification as per Appx 'A'.
(b)	**Tiling of Class Rooms** (i) Supply & Fixing of Floor tiles (Area - 12672 Sq ft) (ii) Supply & Fixing of Wall tiles up to height of 5 ft (Area- 9,900 Sq ft)	Detailed specification as per Appx 'B'
(c)	**Smart & Interactive Panel Boards** Supply & installation of Smart & interactive Panel Boards for class rooms (Qty-06)	Detailed specification as per Appx 'C'
(d)	**200 KVA Transformer** Supply, Installing and commissioning of 200 KVA Transformer	Detailed specification as per Appx 'D'
(e)	Construction of Synthetic Basket Ball Court	Detailed specification as per Appx 'E'
(f)	Purchase of Plastic Chairs (Qty- 500 Nos)	Detailed specification as per Appx 'F'
(g)	Purchase of Window ACs 1.5 ton (Qty-04)	Detailed specification as per Appx 'G'
(h)	**Purchase of CCTV Cameras** (i) IP Network Bullet Camera 4MP Qty -20 (ii) IP Network Dome Camera 4MP Qty -54 (iii) 16 Channel NVR 2 SATA Qty -01 (iv) 32 Channel NVR 2 SATA Qty -02 (v) Surveillance 4 TB Hard Disk Qty -05 (SATA Port based) (vi) POE GIGA Switch 8 +2 Port Qty -05 (vii) POE GIGA Switch 4+2 Port Qty -08 (viii) Switch 8 port Qty -05 (ix) CAT-6 Cable 24 AWG 305 Mtr Qty -12 (x) Media Converter 1 Pair Qty - 01 (xi) Junction Box with power sockets Qty -13 (xii) Accessories	Detailed specification as per Appx 'H'

2.   The complete bidding process will be Offline. All the notifications regarding this tender notice will hereafter be published on the school website **www.apskaluchak.edu.in (under NOTICE BOARD)** Tender documents including details of required technical specification can be seen and downloaded from the school **website www.apskaluchak.edu.in. (for further queries please contact mobile   No 9086019935 between 0800 hours to 1500 hours)**

3.   Tender documents can be submitted by registered post at the School's address or could be physically dropped in the Tender Drop Boxes (01 for Technical Bid and 01 for Commercial Bid) placed at APS Kaluchak Entrance Gate Adjacent to Pari Mahal (Banquet Hall) Jammu, PIN - 180010 (J&K) latest by **1000 hrs on 03 Dec 2023.** Quotation/Bid will be opened on **04 Dec 2023 at 1100 hrs.**

4.   Technical Bid & Commercial Bid is required to be submitted in separate sealed envelopes with heading pertaining to the type of bid (i.e. whether technical or commercial to be clearly specified on the top of the envelope with nomenclature of the project/work).

5.   The Commercial bids in respect of only those bidders will be considered whose Technical Bid meets the required specifications/criteria. Rates applicable should be valid for a period up to next 75 days from the date of opening of the tender documents.

6.   Liquidated Damage (LD) charges @ 0.5% of the total Contract value shall be weekly levied if the work is not completed within the period mentioned in supply order**.** All rates to be provided including GST.

7.   A Demand Draft equivalent to 2% of the value of the quoted cost/amount should also be   enclosed as the EMD (refundable) amount alongwith each technical bid.

 8.   **CCTV Cameras**. Bids from only identified reputable manufacturers (OEM) that have a strong track record in security and privacy will be accepted.

9.   **Interactive Panel, Window ACs & CCTV Cameras**. Bids must include in terms and conditions for the warranty and post warranty period for undertaking of the AMC.

10.   Only printed copy of the tech specification provided by the School (in School website) will be accepted duly signed and stamped by the firm./vendor. Vendors own specification will not be accepted.

11.   Only reputed brands will be accepted. No Chinese parts will be accepted.

12.   **All vendors are requested to make necessary entry in the register which is kept with security staff at Gate No. 1 while dropping bids in the tender boxes**

         Only printed copy of the tech specification provided by the School (in School website) will be accepted duly signed and stamped by the firm/vendor. Vendors own specification will not be accepted.

TECHNICAL SPECIFICATION OF SCHOOL BUS REQUIREMENTS RELATED PARAMETERS TO BE SUBMITTED) BY BUS MANUFACTURER OR BUS BODY BUILDER AS PER AIS - 063:2005

Sr. No.	Parameters	To be submitted by manufacturer /Bus Body Builder
1.	School Bus colour	
2.	Width of Golden brown band & its Height from Ground Level (mm)	
3.	School Bus Insignia	
4.	Dimension	
5.	Location at Front & at Rear	
6.	Emergency Exits	
7.	No. of Emergency Exits	
8.	Emergency Exit type (Window/Door)	
9.	Position of Emergency Exit	
10.	Dimension of Emergency Exit (mm)	
11.	Vehicle Entry Steps	
12.	Height of First/Lowest Footstep From Ground Level (mm)	
13.	Height of other steps (if any) from Ground Level (mm)	
14.	Depth of step (mm)	
15.	Folding or Retracting steps(Provided/Not Provided)	
16.	if provided, its indication through a Buzzer/Flashing light to the driver	
17.	Service Doors	
18.	Whether operated manually or power operated	
19.	If power operated whether operated Pneumatically/Hydraulically/Electrically.	
20.	Interior Protection	
21.	List out parts if any in the gangway lies upto a height of 1200mm from bus floor, its radius or Shore hardness	
22.	Storage Racks	
23.	Location	
24.	Depth (mm)	

S No	Parameters	To be submitted by manufacturer /Bus Body Builder
25.	Seats	
26.	Seating layout (2x1, 2x2, 3x2 and any other)	
27.	Seat Dimension (per child) (Width x Depth) mm	
28.	Type of partition which prevents the child from falling into the step well	
29.	Stop Signal Sign	
30.	Min. letter height of sign (mm)	
31.	Min. Projection (mm)	
32.	Passenger Safety	
33.	Provision of flashing light and buzzer or suitable means in case of door/Emergency door is open	
34.	Provision of Speed limiting facility as per rule 118 of CMVR	

SCOPE OF WORK & TECHNICAL SPECIFICATION FOR TILING OF CLASS ROOMS

S No	Scope of work	Technical Specification
1	Supply and fixing of Floor tiles (Floor Area being 12672 sq ft)).	(i) The surface for tiling work must be flat, rigid, stable and be well connected with the material and without having any impurity on the surface. (ii) The level of the surface should be suitable as per the material to be tiled on. (iii) The slope of the surface must be as per the technical requirements. Adhesive is used as the material for joining the surface must be prepared accordingly. (iv) There should be no gaps between tiles to cater for smooth finishing. (v) Gradient of floor to be towards the door in the class rooms so as to avoid accumulation of water inside the classrooms. (vi) If any tile is not fitted properly, the same will have to be replaced by the vendor without any extra cost. (vii) Proper curing and seasoning be carried out wherever required. (viii) <u>Quality, Size and colour of Tiles</u>:- 　(aa) Size　　　　　　: 2ft x 2 ft 　(ab) Company　　　: Branded 　(ac) Surface　　　　: Antiskid 　(ae) Cement motor ratio : 1:4 　(af) Tiles　　　　　: Double charge 　(ag) Colour　　　　　: # # Any light/off white/Lt brown sober looking colour. The sample of tiles to be approved by the school mgt well in advance.

SCOPE OF WORK & TECHNICAL SPECIFICATION FOR TILING OF CLASS ROOMS

| 2 | Tiling Work on Walls upto the height   of 5 feet from the floor level.

(Tiling Area being 9,900 sq ft) | (i)   Removing/scrapping/dismantling of old plaster/distemper/white wash.

(ii)   The surface for tiling work must be flat, rigid, stable and be well connected with the material and should not be having any impurity on the surface.

(iii)   There should be no gaps between tiles to cater for smooth finishing.

(iv)   If any tile is not fitted properly, the same will have to be replaced by the vendor without any extra cost.

(vii)   Proper curing and seasoning will be carried out wherever required.

(viii) <u>Quality and Size of Tiles</u>:-

    (aa)   Size   : 18 inch x 12 inch
    (ab)   Company : Branded
    (ac)   Colour   : Light Grey |

HARDWARE SPECIFICATIONS FOR INTERACTIVE PANEL BOARD

75″ LED PANEL BOARD

Screen Type	LED with super brigh tback lit display Commercial Grade
Backlight Type	DLED
Glass bonding	ZERO bonding Technology
Resolution	3840 X 2160,4K or better
Number of Colors	1.07 B (10-bit) or better
Refreshing frequency	60 Hz (Standard)
Response Time	< 6 ms
Contrast ratio	15000 : 1or better
Brightness	450 cd/ m2 or more
Viewing Angle	178/178
Life	50,000 hrs or more
Audio Amplifier	In-built, TI amplifier 2 channel output
Audio Speaker	2 X 16 W+ 15 w sub woofer or higher
Sensing Type	Infrared 20 point writing and 40 point touch
Touch Response Time	< 6ms (typ) or better
Touch Accuracy	0.5 mm or better
Surface Protection	Toughened glass Level 7 MOHS Std.
Android Module	Android12.0, Dual core ARM,4GB RAM,64 GB Flash or higher version
Bluetooth	2.1+ EDR/4.2/5.0
Connectivity	LAN,RJ45, USB2.0/3.0/3.1Type C,Mini Display Port, Mic and earphone port,VGA Input,HDMI 1080 p Input, HDMI 4K, 2K,SPDIF optical out
Power Requirement	100 V- 240 VAC 50/60 HZ
Power Consumption	< 600 W
Operating Temperature	minus 10 to 55 degree
Operational humidity	10 % to 90 %
Dimensions L*H*W	1722 X 1032 X 87 mm (More sleek version acceptable)
Windows Module	Core i5/11th generation, 256 GB SSD, 8 GB or more RAM (Expandable upto 32 GB),1TB HDD expandable upto 6 TB, Windows10/11 pro licensed ,Intel H510 Comet Lake, Intel (R) Iris (R) X e Graphics, WiFi 6,BT 5.0

SCOPE AND TECHNICAL SPECIFICATION OF 200 KVA TRANSFORMERS

SNo	Scope of work	Tech Specification

1.	Supply, Installing and commissioning of naturally cooled, three-phase, 50 Hz, double-wound, outdoor type Distribution transformer of 200 KVA capacity with completely self protected (CSP) Transformer	(a) Capacity : 200 KVA
		
		(b) Voltage : 11,000/420v
		
		(c) Size Height : 800 mm to 825 mm
		  Width : 875mm to 925 mm
		  Length : 1425 mm to 1475 mm
		
		(d) No of phases : Three phase

2	Warranty to be given for a minimum period of two year from the date of the transformer being installed.	(e) Impedance % : Max 405 or lower (f) Weight : 750 to 850 kgs (g) Oil Capacity : 275 to 325 Ltrs (h) Max ambient air temp : 50 °C (j) Max relative humidity : 100% (k) Isoceraunic level : Minimum 50 (l) Climatic condition : Should be able to withstand moderately hot and humid tropical climate conducive to rust and fungus growth
3	Accessories	Cable, Change Over Switches, Panel Boards, all electric fittings, cement works, labours and all other items required for installing the transformer.
4	Vendors can visit the school to survy the area and calculate the exact requirement for the items required for the above project. The visiting time is from 0930 hr to 1430 hrs on all working days.	

TECHNICAL SPECIFICATION OF SYNTHETIC FLOORING OF BASKETBALL COURT

S No	Scope of work	Specifications
(a)	Supply & Installation of all weather proof Acrylic Synthetic Flooring of Basketball Court	(i) **Filler Course**. Providing and fixing/installing two layers of Acrylic resurfacer blended with silica sand. (ii) **Cushion Course**. Providing and installing/fixing an addl layer for smooth cushioned finish in preparation for the texture and finish course. (iii) **Texture Color Coat**. Providing and laying one coat of color so as to provide uniform surface texture. (iv) **Finish Color Coat**. Providing and laying one coat of color to create a durable finish that is highly resistant to all weather and ultraviolet degradation. (v) **Game Line Marking**. Providing and laying of heavy bodied acrylic color white striping paint (both textured and untextured).

SPECIFICATION OF PLASTIC CHAIR

Brand	Any Branded Company
Colour	Pear Wood
Material	Plastic/PVC
Size	Length - 57 cm, Width - 60 cm & height -90 cm
Back Style & with/without Arms rest	Solid back with Arm rest
Special Feature	Without Cushion
Product Care Instructions	Wipe Clean
Recommended uses	Relaxing, Reading, Dining

SPECIFICATION OF WINDOW TYPE AC 1.5 TON

S No	Technical Specification	
1.	AC type	Window
2.	Capacity	1.5 ton
3.	Star rating	5 Star
4.	Cooling Capacity	4850w & above
5.	Compressor	Rotary Compressor
6.	Cooling Coverage Area	Q
7.	Dehumidification	Yes
8.	Remote Control	Yes
9.	Air Wing	Auto
10.	Anti bacteria filter	Yes
11.	Dust Filter	Yes
12.	Warranty period	Min 1 year for AC and 5 years for Compressor
13.	Brand of AC	Only reputed branded company accepted.
14.	Stabilizer 5 KV	Only heavy duty branded company accepted.
15.	AMC Requirement	Min three years AMC to be included.

SPECIFICATIONS OF CCTV CAMERA

4MP FIXED BULLET NETWORK CAMERA

Camera

Image Sensor	1/3" Progressive Scan CMOS Sensor
Effective Pixels	2560×1440
Electronic Shutter Speed	1/2s ~ 1 /100000s
Minimum Illumination	Color: 0.005 Lux @ F1.6, AGC ON; 0 Lux with IR
Iris Type	Fixed Iris

LENS

Lens	2.8mm @F1.6, horizontal field of view: 102.5º/
	3.6mm @F1.6, horizontal field of view: 80º/
	6mm@F1.6,horizontal field of view:56º (optional)*
Lens Mount	M12
Day & Night	ICR
IR Distance	40m
Wide Dynamic Range	120dB
Digital NR	3D DNR
Angle Adjustment	Pan: 0°~360°; Tilt: 0°~80°; Rotation: 0°~360°

VIDEO

Video Compression	H.265+/H.265 /H.264+/H.264/MJPEG
	H.265 Compression Standard Baseline Profile/Main Profile/High
Profile	
Resolution	4MP (2560 x1440), 2K(2560×1440),3MP(2304×1296),1080P (1920×1080),720P(1280×720),D1,CIF,480×240 1080P (1920x1080) 720P(280x720), D1,CIF, 480x240
Main Stream	4MP (1~30fps)/2K(1~30fps)3MP(1~30fps)/ 1080P(1~30fps)/720P(1~30fps)
Sub Stream	720P/D1/CIF(1~30fps);
Triple Stream	D1/CIF/480x240 (1~30fps);
Bit Rate	64Kbps ~ 8Mbps
Audio Compression	G711A / U
Bit Rate Type	VBR/CBR
Image Settings	Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR,etc. adjustable through client software or web browser
Privacy Mask	4 areas
BLC	Supported
HLC	Supported
ROI	Supported

INTERFACE

Network	1 RJ45 10M/100M Base-TX Ethernet
Audio	1CH audio input
Storage	Built-in micro SD card slot, up to 256GB
Reset	Yes

SPECIFICATIONS OF CCTV CAMERA

FUNCTIONS

Remote Monitoring	Web browser /NVR/NVMS2.X/Mobile APP
Web Browser	IE (plug-in required)/Google Chrome/Edge/Firefox/Safari
Online Connection	Support Simultaneous monitoring for up to 3 users; Support Multi-Stream Real Time Transmission
Network Protocol 802.1x,	UDP, IPv4, IPv6, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP, SNMP, UPnP, HTTP, HTTPs, QoS
Interface Protocol	ONVIF (Profile S,G)
General function	Watermark, IP address filtering, video mask, heartbeat, illegal login lock
POE	Supported

ELECTRICAL

Power Supply	DC12V/ PoE
Power Consumption	<5W

ENVIRONMENTAL

Operating Conditions condensing	-30°C ~ 60°C (-22ºF ~140ºF) Humidity: Less than 95% non
Ingress Protection	IP67
Installation	Wall Mounting, Ceiling Mounting

SPECIFICATIONS OF CCTV CAMERA

4MP FIXED DOME NETWORK CAMERA

CAMERA

Image Sensor	1/2.8" CMOS
Effective Pixels	2592 x 1520
Electronic Shutter Speed	1/25s~ 1 /100000s
Minimum Illumination	Color: 0.005Lux@F1.6,AGC ON; 0 Lux with IR
Iris Type	Fixed Iris

LENS

Lens	2.8mm @F1.6, horizontal fov: 100.4 º
Lens Mount	M12
Wide Dynamic Range	120dB WDR
Digital NR	3D DNR
BLC	Yes
HLC	Yes
Angle Adjustment	Pan: 0°~355°; Tilt:0°~67°; Rotation: 0°~355°

VIDEO

Video Compression H.264/H.264+H.264/MJPEG	Smart H.265/H.265+/H.265/smart
H.265 Compression Standard	Baseline Profile/Main Profile/High Profile Resolution 4MP (2592 x 1520), 3MP(2304x1296), 1080P(1920x1080),720P(1280x720), D1, CIF, 480x240 Main Stream4MP/2MP/720P(1~25fps)
Sub Stream	720P/D1/CIF/480x240 (1~25fps);
Third Stream	D1/CIF/480x240 (1~25fps)
Bit Rate	64Kbps~8Mbps
Bit Rate Type	VBR/CBR
Audio Compression	G711A / U
ROI	Each ROI to be configured separately

INTERFACE

Network	RJ45
Video Output	No
Audio	1CH audio input
Storage	Built-in micro SD card slot: up to 256GB
Reset	Yes

FUNCTIONS

Remote Monitoring : Web Browsing, CMS Remote Control
Online Connection : Support Simultaneous monitoring for up to 4 users; Support Multi-Stream Real time Transmission.
Network Protocol : UDP, IPv4,IPv6, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP
Interface Protocol : ONVIF (Profile S,G), 802.1x, UPnP, HTTPS, QoS Storage Network
Remote Smart Analysis : Cross Line Detection (Human/ Vehicle classification), Intrusion Detection(Human/Vehicle Classification), Face Capture, Motion Detection, Video Blur, Video Tampering, Scene Change detection, Target Counting .

SPECIFICATIONS OF CCTV CAMERA

General function Watermark, IP address filtering, video mask, heartbeat, password protection, non-photosensitive switch, image distortion correction

POE	Yes, IEEE802.3af
IR Distance	30m

GENERAL

Power Supply	:	DC12/ PoE
Power Consumption	:	<7W
Operating Conditions	:	-30°C ~ 60°C (-22ºF ~140ºF) Humidity: Less than 95% non condensing
Ingress Protection	:	IP67 & IK10

3. 16 CHANNEL NVR 2 SATA

SNO	Description	Specification
(a)	Video Compression	Smart H.265, H.265, H.264
(b)	Frame Rate	25 fps/30 fps (PAL/NTSC)
(c)	Video And Audio Input	16 CH
(d)	Hard Disk	SATA×2
(e)	Capacity	8 T
(f)	Network Protocols	IPv4, Ipv6, RTSP, UDP, SMTP, NTP, DDNS, DNS, HTTP, HTTPS, FTP, P2P, UpnP, NTP, DHCP, PPPoE, SnMP
(g)	Network Interface	RJ 45 1000 Mbps x 1
(h)	Compatible Integration	ONVIF
(j)	Video And Audio Output	HDMI×1: 3840×2160
(k)	Recording Resolution	8MP/6MP/5MP/4MP/3MP/1080P/1280x1024 /960P/720P 960H/D1/CIF
(l)	Audio Output	RCA ×1
(m)	Synchronous Playback	Max. 16CH

SPECIFICATIONS OF CCTV CAMERA

4. <u>**NVR 32 CHANNEL 2 SATA**</u>

S NO	Description	Specification
(a)	Video Compression	Smart H.265, H.265, H.264
(b)	Frame Rate	25/30 fps
(c)	Video And Audio Input	32 CH IPC Input
(d)	Hard Disk	SATA×2
(e)	Capacity	8 T
(f)	Smart Features	Support Face Detection, Face Recognition, Face Comparision Support Search Image by Image
(g)	General function	Play, Pause,FF,FB,DigitalZoom,etc
(h)	Network	IPv4, IPv6, RTSP, UDP, SMTP, NTP, DDNS, DNS, HTTP, HTTPS, FTP, P2P, UPnP, NTP, DHCP, PPPoE, SnMP, ONVIF
(i)	Video And Audio Output	HDMI:4K/1920×1080/1280×1024 VGA×1:1920×1080/1280×1024
(j)	Recording Resolution	12MP, 8MP,5MP, 4MP,3MP,1080P,960P,720P
(k)	Synchronous Playback	Max 16 CH
(l)	Network Interface	RJ45 10/100/1000 Mbps × 1
(m)	USB Interface	USB 3.0×1,USB 2.0×1
(n)	Alarm in	8 CH Local alarm Input,32 CH IPC Alarm Input
(o)	Alarm Out	4 CH

SPECIFICATIONS OF CCTV CAMERA

5.   **FULL GIGA SWITCH (8 +2 POE)**

S NO	Description	Specification
(a)	Network Port	8 10/100/1000Mbps PoE RJ45 port (port 1～port 8) ; 2 10/100/1000Mbps Non-PoE RJ45 port (port 9 ~ port 10)
(b)	Transfer Rate	1000Mbps full Duplex
(c)	Performance	Bandwidth: 20Gbps (no block）; Forwarding Mode: store and Forward ; Packet Forwarding Rate: 14.88Mpps ; 8K MAC address table ; Packet Buffer Size- 192KB
(d)	Network protocol and standard	IEEE 802.3i 10BASE-T , IEEE 802.1p, IEEE802.1q, IEEE802.1d, IEEE802.1s,IEEE802.1w, IEEE 802.3u 100BASE-TX , IEEE802.3ab: 1000BASE-T, IEEE 802.3x Flow Control , IEEE802.3az: 1000BASE-X, IEEE 802.3af/at Power over Ethernet
(e)	Power	Total power: 96W Single port maximum output power: 30W

6.   **FULL GIGA SWITCH (4 + 2 POE)**

S NO	Description	Specification
(a)	Network Port	4 x 10/100/100Mbps PoE ports (RJ45), 2 x 10/100Mbps uplink port (RJ45)
(b)	Transfer Rate	4 x 10/100/100Mbps PoE ports (RJ45), 2 x 10/100Mbps uplink port (RJ45)
(c)	Performance	Bandwidth: 1.2Gbps Network Latency (10 to 1000Mbps): ≦16µs (use the 64byte package size)
(d)	Network protocol and standard	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3xFlowControl IEEE 802.3af/at/bt Power over Ethernet
(e)	Input Voltage Range	AC 110~220V

SPECIFICATIONS OF CCTV CAMERA

7. **SWITCH 8 PORT 100 MBPS**

S No	Description	Specification
(a)	Number of Ports	08

8. **4 TB INTERNAL SURVEILLANCE HARD DISK DRIVE (PURPLE)**

S NO	Description	Specification
(a)	Interface	SATA-III
(b)	Form Factor	3.5 inch

9. **FIBRE MEDIA CONVERTER**

S NO	Description	Specification
(a)	Standards	IEEE802.3u 100 Base-TX/FX
(b)	Ethernet Port	Connector: RJ45; Data Rate: 10/100M; Distance: 100m; UTP Type: UTP-5E or higher level
(c)	Fiber Port	Connector: SC/FC/ST slot; Data Rate: 155Mbps; Optical wavelength: 850nm/1310nm/1490nm/1550nm; Fiber type: single mode 9/125µm, multi-mode 50/125µm,62.5/125µm; Distance: 550m～100km
(d)	Performance	Processing Type: direct forwarding; Jumbo packet: 9k bytes; Time Delay: ＜150µs
(e)	Power	Power type: external power supply; Input Voltage: AC100V～240V 50/60Hz; Connector: DC Socket; Working Voltage: 5V; Power Consumption: 0.7W～2.0W
(f)	Environment	Storage Temperature: -40～70℃; Operating Temperature: -10～55℃; Relative Humidity: 5-90% (no condensation)

SPECIFICATIONS OF CCTV CAMERA

10. **CAT6 - 24 AWG 305 MTR OUT DOOR DOUBLE JACKETS**

S NO	Description	Specification
(a)	Conductor	Solid Bare Electrolytic Grade Copper
(b)	Nominal Conductor Diameter	24 AWG (0.51 ± 0.020 mm)
(c)	Insulation	Polyethylene (HDPE)
(d)	Pairing	Twisted Into Two Core
(e)	No.of Pair	Twisted Into Two Core
(f)	Pair #1	Orange-White with Orange
(g)	Pair #2	Brown-White with Brown
(h)	Pair #3	Blue-White with Blue
(i)	Pair #4	Green-White with Green
(j)	Inner Shealth	PVC (L-Grey)
(k)	Armouring	Alloy
(l)	Colour Of Sheath	Black
(m)	Outer Shealth material	PVC
(n)	Approximate OD	9.0 ± 0.30 mm
(o)	Rip Cord	Yes
(p)	Sequential Marking	At Every Meter
(q)	Cross Filler	HDPE
(r)	Temperature Rating	HDPE
(s)	Installation Temperature	0 to + 50 c
(t)	Storage Temperature	-20 to + 75 c
(u)	Operating Temperature	-20 to + 60 c
(v)	Conductor Resistance (DC)	93.5Ω /1000 mtr @20 c Max
(w)	Resistance Unbalance	5% Max
(x)	Mutual Capacitance	5.6 nf/100 mtr Max
(y)	NVP	69%
(z)	Impedance	100 +- 15% Ω

SPECIFICATIONS OF CCTV CAMERA

11. **JUNCTION BOX (1 ft X 1 ft) WITH LOCK AND POWER SOCKETS**

S No	Description	Specification
(a)	Type	Outdoor Weather Proof
(b)	Material	ABS
(c)	No Of Way	2 Way
(d)	Shape	Rectangular
(e)	IP Rating	IP55
(f)	Color	White
(g)	Packaging Type	Corrugated Box
(h)	Voltage	230V AC
(i)	Output Current	Not Applicable
(j)	Temperature Range	0-40 Degree
(k)	Protection Degree	IP55
(l)	Power	230V AC
(m)	Frequency	50-60Hz
(n)	Design	Plastic Material
(o)	Country of Origin	Made in India

12. **ACCESSORIES**

(a)	Anchor PVC Conduit pipe 1.5 inch Per length (10 ft)	250 Pieces
(b)	Flexi PVC Pipe	5 Roll
(c)	Clamp for Conduit Pipe 1.5 Inch (100 Pieces Per Packet)	10 Packets
(d)	D Link RJ 45 (100 pieces per packet)	10 Packets
(e)	PVC Box for Camera (Good Quality)	72 No
(f)	Installation Charges (Including cabling with PVC junction box fixing, clamping, configuration of NVR including training).	