

## Contract



**Contract No:** GEMC-51168770718-4936

**Generated Date:** 25-Sep-2021

**21100816721145 DT.25-09-21**

**Bid/RA/PR No:** GEM/2021/RA/74207

Organisation Details	Buyer Details
<b>Type:</b> Central PSU <b>Ministry:</b> Ministry of Coal <b>Department:</b> Materials Management <b>Organisation Name:</b> Western Coalfields Ltd <b>Office Zone:</b> Western Coalfields Limited / Nagpur	<b>Designation:</b> Dy. Manager <b>Contact No.:</b> 0712-2511381-5529 <b>Email ID:</b> asnagarkar@westerncoal.gov.in <b>GSTIN:</b> 27AAACW1578L1ZW <b>Address:</b> 1st Floor, MM Wing, WCL Hqrs, Coal Estate, Civil Lines, NAGPUR, MAHARASHTRA-440001, India

Financial Approval Detail	Paying Authority Details
<b>IFD Concurrence:</b> Yes <b>Designation of Administrative Approval:</b> GM MM Purchase <b>Designation of Financial Approval:</b> GM Finance	<b>Payment Mode:</b> Offline <b>Designation:</b> Dy Manager Fin <b>Email ID:</b> sprathi@westerncoal.gov.in <b>GSTIN:</b> 27AAACW1578L1ZW <b>Address:</b> WCL Hqrs, Coal Estate, Civil Lines, NAGPUR CITY, MAHARASHTRA-440001, India

Seller Details	
<b>GeM Seller ID:</b>	8572190000925442
<b>Company Name:</b>	SMART MONITORING INNOVATIONS PRIVATE LIMITED
<b>Contact No.:</b>	09953476389
<b>Email ID:</b>	vasu@smiplindia.com
<b>Address:</b>	17/263, GALI NO 11, THAN SINGH NAGAR, ANAND PARBAT, DELHI, DELHI-110005, -
<b>MSME verified:</b>	Yes
<b>MSME Registration number:</b>	-
<b>MSE Social Category:</b>	General
<b>MSE Gender:</b>	Female
<b>GSTIN:</b>	07AANCS7062A2ZC

\*GST / Tax invoice to be raised in the name of - Consignee

Product Details								
#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Lead Time(Days)	Price (Inclusive of all Duties and Taxes in INR)
1	<b>Product Name :</b> BPE 2.0 KVA UPS <b>Brand :</b> BPE <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> OEM verified catalogue <b>Selling As :</b> OEM verified Reseller	Online Ups-IS:9000	BPE 2KVA UPS	HSN not specified by seller	8	pieces	-	447,992
2	<b>Product Name :</b> Sparsh ZMP DOME CAMERA <b>Brand :</b> Sparsh <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> Catalogue not verified by OEM <b>Selling As :</b> OEM verified Reseller	Camera for CCTV System	SS-EM212-(I)	HSN not specified by seller	13	pieces	-	2,117,674
3	<b>Product Name :</b> Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps <b>Brand :</b> Radwin <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> OEM verified catalogue <b>Selling As :</b> OEM verified Reseller	Outdoor Unlicensed Band RF Radios	RW-2450-63C5	HSN not specified by seller	30	pieces	-	3,279,000
4	<b>Product Name :</b> Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System <b>Brand :</b> Sparsh <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> Catalogue not verified by OEM <b>Selling As :</b> OEM verified Reseller	Video Recorder For Cctv System-IS 9000	SR-NV16F602-H	HSN not specified by seller	9	pieces	-	160,182
5	<b>Product Name :</b> netrack 6U Rack Enclosures Networking/Server Rack <b>Brand :</b> netrack <b>Brand Type :</b> Registered Brand	Networking/Server Rack	WM 6U 600 Depth	HSN not specified by seller	15	pieces	-	74,175

<b>Catalogue Status :</b> OEM verified catalogue <b>Selling As :</b> OEM verified Reseller							
6	<b>Product Name :</b> tp-link 8 Ports Managed PoE+ Layer 2 Access Switch <b>Brand :</b> tp-link <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> OEM verified catalogue <b>Selling As :</b> Reseller not verified by OEM	Layer 2 Access Switch	TP-Link & TL-SG2210P	HSN not specified by seller	26	pieces	571.948
7	<b>Product Name :</b> NORDEN 0.57 mm (23 AWG) 8 Meter <b>Brand :</b> NORDEN <b>Brand Type :</b> Registered Brand <b>Catalogue Status :</b> OEM verified catalogue <b>Selling As :</b> OEM verified Reseller	CAT 6 Cable for Outdoor	113-20422104X	HSN not specified by seller	1,300	meter	70,460
Total Order Value (in INR)							<b>6,721,431</b>

### Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Designation: - Email ID: ujawal.rane@nic.in Contact: 07173-254042- GSTIN: 27AAACW1578L1ZW Address: Regional Stores, WCL Ballarpur Area PO Sasti Distt Chandrapur (M.S) Pin 442 706, Chandrapur, MAHARASHTRA-442706, India	Sparsh 2MP DOME CAMERA	-	1	25-Sep-2021	09-Nov-2021
		Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System	-	1	25-Sep-2021	09-Nov-2021
		netrack 6U Rack Enclosures Networking/Server Rack	-	1	25-Sep-2021	09-Nov-2021
		tp-link 8 Ports Managed PoE+ Layer 2 Access Switch	-	2	25-Sep-2021	09-Nov-2021
		NORDEN 0.57 mm (23 AWG) 8 Meter	-	100	25-Sep-2021	09-Nov-2021
		Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps	-	2	25-Sep-2021	09-Nov-2021
2	Designation: - Email ID: akpandey989@westerncoal.gov.in Contact: -8989117973- GSTIN: 23AAACW1578L1Z4 Address: Regional Stores, WCL Pench Area P.O CHANDAMETA Distt. Chhindwara, M.P 480447 GSTN: 23AAACW1578L1Z4, CHHINDWARA, MADHYA PRADESH-480447, India	Sparsh 2MP DOME CAMERA	-	4	25-Sep-2021	09-Nov-2021
		netrack 6U Rack Enclosures Networking/Server Rack	-	4	25-Sep-2021	09-Nov-2021
		BPE 2.0 KVA UPS	-	4	25-Sep-2021	09-Nov-2021
3	Designation: - Email ID: kskattimani@westerncoal.gov.in Contact: 7146-271363- GSTIN: 23AAACW1578L1Z4 Address: Regional Stores, WCL, Durgapur Opencast, P.O. DURGAPUR Distt Chandrapur, ( M.S)Pin 442 403, CHANDRAPUR, MAHARASHTRA-442403, India	Sparsh 2MP DOME CAMERA	-	4	25-Sep-2021	09-Nov-2021
		Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System	-	4	25-Sep-2021	09-Nov-2021
		netrack 6U Rack Enclosures Networking/Server Rack	-	4	25-Sep-2021	09-Nov-2021
		tp-link 8 Ports Managed PoE+ Layer 2 Access Switch	-	8	25-Sep-2021	09-Nov-2021
		NORDEN 0.57 mm (23 AWG) 8 Meter	-	400	25-Sep-2021	09-Nov-2021
		BPE 2.0 KVA UPS	-	4	25-Sep-2021	09-Nov-2021
4	Designation: - Email ID: akpandey989.wcl@nic.in Contact: -6260565123- GSTIN: 23AAACW1578L1Z4 Address: Regional Stores, WCL Pench Area P.O CHANDAMETA Distt. Chhindwara, M.P 480447 GSTN: 23AAACW1578L1Z4, CHHINDWARA, MADHYA PRADESH-480447, India	Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System	-	4	25-Sep-2021	09-Nov-2021
		tp-link 8 Ports Managed PoE+ Layer 2 Access Switch	-	8	25-Sep-2021	09-Nov-2021
		NORDEN 0.57 mm (23 AWG) 8 Meter	-	400	25-Sep-2021	09-Nov-2021
		Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps	-	8	25-Sep-2021	09-Nov-2021
		Sparsh 2MP DOME CAMERA	-	4	25-Sep-	09-Nov-2021

5	Designation: - Email ID: shshaik@coalindia.in Contact: 07116-247092- GSTIN: 27AAACW1578L1ZW Address: Regional Stores, WCL P.O. Umrer Project Dist. Nagpur M.S. Pin 441204, NAGPUR, MAHARASHTRA-441204, India			2021		
		netrack 6U Rack Enclosures Networking/Server Rack	-	6	25-Sep-2021	09-Nov-2021
		tp-link 8 Ports Managed PoE+ Layer 2 Access Switch	-	8	25-Sep-2021	09-Nov-2021
		NORDEN 0.57 mm (23 AWG) 8 Meter	-	400	25-Sep-2021	09-Nov-2021
		Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps	-	12	25-Sep-2021	09-Nov-2021

### Product Specification for BPE 2.0 KVA UPS

Specification	Sub-Spec	Value
Generic	Rating in KVA (KVA)	2.0 KVA
	Technology	IGBT-PWM with inbuilt isolation transformer
	Input Power	single phase 160V - 260V sinewave,50Hz
	Output power	Single phase 230V +/-1% sinewave 50 Hz
	Backup time (Minutes)	120
	Minimum VAH (VAH)	3200
	Warranty for UPS (Years)	1
	Movable trolley for Batteries	Without trolley but with rack
	Warranty for battery	2
	Degree of Protection	IP21
	Cabling 5 meters for input and out put	With
	Paralleling kit for synchronising	Without
	Installation and Commissioning	Yes
Constructional	Minimum thickness of M.S.Sheet Enclosure duly painted (mm)	1.0
	Type of Battery	SMF-VRLA conforming to JISC:8702(Pt.I,II&III)
Functional	Maximum overshoot and Under shoot of output rated voltage	4
	Voltage Regulation from no load to full load (%)	< / = 3%
	20% Overload limit for minimum 10 minutes	Yes
	Overall Efficiency (%)	>/=90%
	Total Harmonic Distortion(THD) (%)	Maximum 3%
Protection	50% Overload limit for minimum 1 minutes	Yes
	Protection for under voltage at battery terminal at 10.5V per 12 V battery	Yes
Metering And Indications	Protection of Over voltage,Short Circuit & over load at UPS output terminal	Yes
	Digital Metering in UPS for AC Input Voltage,Output AC Voltage,Current,Frequency,Battery Voltage and Current	Yes
Reports And Certification	Indicators for mains presence,Battery charging and discharging,Output Over Load, Low Battery Voltage	Yes
	Damp Heat : in accordance with IS:9000(part 5/sec.2)1981 at Temperature of 40 degree C,two cycles of (12+12) hours each 2007)	Yes
	Dry Heat Test : in accordance with IS:9000 (part 3/sec.5)1977 (reaffirmed 2007) at 55 degree C for 16 hrs	Yes
	Cold Test : in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degree C for 4 hrs.	Yes
	Availability of the Type Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.	Yes
	Type Test Certificate No.	1928
	Type Test Certificate date	12/12/15
	Name of Lab	ETDC
	Address of Lab	AMBALA
As per Meity (Government of India) guidelines UPS shall have valid BIS CRS certifications as applicable	Yes	

**Buyer Defined Additional Specification for BPE 2.0 KVA UPS**

Specification	Value
Surge protection device	All UPS to be provided with Surge protection device

**Product Specification for Sparsh 2MP DOME CAMERA**

Specification	Sub-Spec	Value
IMAGE SENSOR	Image Sensor Type	CMOS
	Image Sensor Size	0.5
	Camera Image Sensing capacity (Picture Mode)	2MP
	Resolution	D1 (704 x 480 Pixel), Full HD (1920 x 1080 Pixel), HD (1280 x 720 Pixel)
	Day/Night Capable	Yes
	IR illumination Range(mtr)	200
CAMERA TYPE	Type of Camera Housing	DOME CAMERA
	IP Camera	Yes
	PTZ Camera	Yes
OPTICS	Lens Type	Motorized Varifocal
	Focal Length(mm)	5.7-205
	Iris Control	Yes
	Focus Mode	Auto, Zooming
VIDEO	Frame Rate (fps)	25,30,50,60
	Video Compression	H.264,H.265+,MJPEG
	Video Streaming	Triple compressed stream
PAN / TILT / ZOOM	Panning Range	0-360
	Pan Speed (deg/sec)	320
	Tilt Range below horizontal (deg)	0-90
	Tilt Range above horizontal (deg)	0-5
	Tilt Speed (deg/sec)	205
	Optical Zoom	36X
	Digital Zoom	16X
AUDIO	Audio Support	Yes
	Audio Compression	G.711,AAC,G.726,G.722
	Audio Streaming	Two-Way
	Number of Audio Input Channel	1
	Number of Audio Output Channel	1
	External Microphone Support	Yes
ALARM	Alarm Support	Yes
	Number of Alarm Digital Input	2
	Number of Alarm	

	Relay Output	2
	Pre/Post Alarm Buffer	Yes
SECURITY	Multi Level User ID/Password	Yes
	IP Address Filtering	Yes
	Encrypted Data Transmission	HTTPS (SSL/TSL)
PERFORMANCE	Minimum Illumination for Capturing Color Image	0.001
	Electronic Shutter Speed(sec)	1 to 1/100,000
	WDR (Wide Dynamic Range)	140 db
	SNR (Signal to Noise Ratio)	50-60
	Auto Exposure	Auto Level Control
FEATURES	White Balance (Indoor/Outdoor/Manual Selectable)	Yes
	Auto Gain Control (On/Off selectable)	Yes
	Back Light Compensation	Yes
	Remote Administration (Remote configuration and status using web based tool)	Yes
	Remote System Update Over Network	Yes
	PC Client (PC application client with a channel recording feature support)	Yes
	Web Client (Viewer through HTTP system configuration)	Yes
	On Screen Display in English	Yes
	ONVIF Support	Yes
	Presets	256
	Group Touring	8
	Privacy Zones	8
NETWORK AND INTERFACE	Supported Protocols	UDP,SNMP,IGMP,DHCP,RTP,HTTP,HTTPS,SMTP,FTP,ICMP,DNS,DDNS,RTSP,RTCP,NTP,UPnP,QoS,TCP/IP,PPPoE,Unicast,Multicast
	IP Support	Static,Dynamic
	Signal Processing	Digital Signal Process
	IPv6 ready	Yes
	Wireless	No
	Simultaneous Connections	20
STORAGE	On Board SD Card Support	Yes
	SD Card Memory(GB)	256

HOUSING	Installation Type	Indoor,Outdoor
	Material of the Housing construction	Alluminium
	Protection	IP67
	Vandal Resistant Housing	Yes
	If Yes, IK rating	IK 10
	Mounting bracket	Pole Mounted
	Weight	4000
	Dimensions (mm x mm x mm)	Ø205mmX308mm
POWER SUPPLY	Power Input	24 VAC,PoE
	Power Consumption	25
	Suitable Adapter Shall be Supplied to Make the Equipment Work on 230 V (+/- 10 %), 50 Hz	Yes
OPERATING CONDITIONS	Operating Temperature Range	- 40 to +65 deg C
	Relative Humidity Non Condensing (%)	95
WARRANTY / SERVICES	Warranty	5
	Time for Replacement of Defective Product During Warranty Period	72
	Supply of Compatible drivers and software included	Yes
ENVIRONMENTAL / CERTIFICATION	Availability of facility & infrastructure for verification of all parameters, features, and capability with Seller	No
	Availability of facility to test signal to noise ratio of camera at 0-01 lux	No
	Conformity to Dry Heat test at 55 degree C for 16 hours as per IS :9000 latest	No
	Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	No
	Conformity to Cold test at -10 / -20 degree C for 4 hours as per IS: 9000 latest, as applicable	No
	BIS Registration for safety general requirements as per IS 13252 (Part 1):latest	Yes
	Availability of Type Test Report from	

Central Govt /NABL/ILAC accredited lab to prove conformity to specification	No
Test Report Number and Date	R-83005371
Name and Address of Test Lab	BIS
Certification	FCC,CE,BIS

**Product Specification for Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps**

Specification	Sub-Spec	Value
Safety And Protection	Safety Standard IEC/UL-60950-1 Compliance	Yes
	Safety Standard IEC/UL-60950-22 Compliance	Yes
	Ingress Protection Rating (IP)	66
	EMC Standards Compliance	IEC 61000-4-2
	Smart Phone based Management for Operation and configuration	No
	GSR 38 (E) /GSR 1048 (E) Unlicensed Frequency Band (GHz)	5
	Modulation Supported	BPSK,QPSK,16 QAM,64 QAM,256 QAM
	Available Channel Bandwidth (MHz)	5,10,20,40,80
	Antenna Type	Embedded
	Minimum Integrated Antenna Gain for Base Station (dbi)	14
	Minimum Integrated Antenna Gain for Point To Point (dbi)	16
	Minimum Integrated Antenna Gain for Customer Permises Equipment (dbi)	16
	Integrated Antenna Azimuth Minimum (degree)	17
	Number of External Antenna Port	2
	MIMO Supported	2 x 2
	Maximum TX Power - Base Station (dB)	25
	Maximum TX Power - Customer Permises Equipment (dB)	24
	Maximum TX Power - Point To Point (dB)	24
	Rx Receiver Sensivity in (dB)	-91
	Automatic Transmit Power Control Available In PTP	No
	Automatic Transmit Power Control Available In PTMP	Yes
	Maximum Supported Link Distance as per GSR 38 (E)/ GSR 1048 (E) EIRP (Km)	30
	TDD Supported	Yes
	TDMA Supported	No
	OFDMA Supported	No
	Throughput - Base Station (Mbps)	NA
	Throughput - Customer Permises equipment (Mbps)	NA
	Throughput - Point To Point (Mbps)	upto 450
	Configurable Uplink/Downlink throughput % of total product capacity for PTP	80:20
	Configurable Uplink/Downlink throughput % of total product capacity for PTMP	NA
	Spectral Efficiency ( b/Hz)	6.25
	Quality of Service according to IEEE 802 point 1p, TOS/ Diffserve	4 level of QoS
GPS Synchronization Supported	Yes	
Ethernet Synchronization Supported	Yes	
Forward Error Correction Feature	Yes	

Radio Specifications	LAN Interface - Base Station	10/100/1000
	LAN Interface - Customer Premises Equipment	10/100/1000
	LAN Interface - Point To Point	10/100/1000
	MTU Size (Bytes)	2048
	Framing/Coding IEEE 802 pointy 3/U standard Compliance	Yes
	Support for SNMP v1	Yes
	Support for SNMP v2	No
	Support for SNMP v3	Yes
	Support for Local and Remote Management	Yes
	Support for Management VLAN	Yes
	VLAN Supported	Tag/Untag,Transparent,Q in Q (Double Tagging)
	Encryption Method Supported	AES 128 bit
	DC PoE Power Supported	24V to 57VDC
	AC PoE : 110-240 VAC Power supported	Yes
	Radius Client Supported - Point To Point	Yes
	Radius Client Supported - Point To Multi Point	Yes
	NTP Client Supported	Yes
	Number of CPE Supported per Sector	0
	Built-in Spectrum analyzer tool enabling view of both side	Yes
	Management by Telnet / SSH	No
	Management by Web Interface	Yes
	Ease of configuration and management, should be able to configure and manage Base Station and CPEs using a single Computer / Laptop	Yes
	Radio is capable to support	MIR
	Radio is capable to support NMS for Monitoring	Yes
	IP v4 Compliant	Yes
	IP v6 Compliant	Yes
	Dual Stack IPv4 and IPv6 Compliant	Yes
	Power Consumption (Watt) - Base Station	20
	Power Consumption (Watt) - Customer Premises Equipment	13
	Power Consumption (Watt) - PTP	13
Roundtrip Latency (ms)	10	
PPS supported	300000	
Others	Equipment Type Approval Certificate available from WPC (Certificate shall be furnished when demanded by buyer)	Yes
	Equipment Type Approval Certificate number and its validity	NR-ETA/9468-RLO(NR)
	Minimum Operating Temperature (Degree C)	-35
	Maximum Operating Temperature (Degree C)	60
	Minimum Operating Humidity (RH) (%)	45
	Maximum Operating Humidity (RH) (%)	99
	Dimensions (L x B x H) ( mm x mm x mm)	182x182x60
	Weight (grams)	500
Accessories	Outdoor Twisted Pair Cable - 50 meter	No
	CAT 6 Cable shielding type UTP (Flame Retardant) - 50 meter	No
	CAT 6 Cable shielding type STP (Flame Retardant) - 50 meter	No
	LMR600 Cable Length - 1point 5 meter with connector both ends	No
	Surge Protection Unit	No
Warranty And Installation	Installation and commissioning is included in the scope of supply	Yes



**Buyer Defined Additional Specification for Radwin Embedded Outdoor Unlicensed Band RF Radios NA mbps**

Specification	Value
To be provided with RF Surge Arrestor	Type metallic water proof dual side n type port, response time : less than 45 volts in 100 nano sec, Freq range : 0.1 to 2500 MHz, Breakdown voltage 350 VAC, ESD handling over 14 KV. Allocation- Pathakhera(4 Nos), Pench(4 Nos), Umrer(10 Nos),Ballarpur(1)
To be provided with Ethernet Surge Protection	Type box type, ethernet / PoE protection device, response time less than 5 nano sec, surge handling capacity 08/20 uS ( 10 KA). Connection RJ PoE or Ethernet accessories grounding wire. Allocation- Pathakhera(4 Nos), Pench(4 Nos), Umrer(10 Nos),Ballarpur(1)

**Product Specification for Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System**

Specification	Sub-Spec	Value
VIDEO	Number of Video Input Channels	8
	Number of Non-IP based Video input Channels for HVR	NA
	Number of IP based Video input Channels for HVR	NA
	Number of Video Output Channels	8
	Recording Resolution	4K (3840 × 2160)
	Supported Compression Technique	H.264,H.265,MJPEG,H.265+,H.264+
	Maximum Number of cameras to be viewed on a single display	16
	Total number of simultaneous local views	2
	Simultaneous Monitoring Connections for All Cameras (Users in Local Network for Client Connection)	16
	Recording Speed for all channels (fps)	25
	Minimum Through put (Mbps)	96
	Display Image Rate	Real time per channel
TYPE	Type of Recording Device	NVR
	IP Camera Support	Yes
	PTZ Camera control Support	Yes
	Housing construction	Alluminium
	Mounting	Rack Mounted
	Rack Mount configuration	1U
	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)	Yes
AUDIO	Audio Support	Yes
	Audio Input	1
	Audio Output	1
	Audio Compression	G.726,G.711
	Minimum Number of Simultaneous Channels for Two-way Audio Support	1
SECURITY	Type of Encryption	HTTPS (SSL/TSL),HTTP (SSL/TSL)
	Multi Level User ID / Password	Yes
ALARM	Alarm Support	No
	Alarm Input	8
	Alarm Output	4
	Pre / Post Alarm Buffer	Yes
	Pre-Alarm Recording	30
	Post-Alarm Recording	30
	Video Content Analytics (VCA)	Motion Detection

NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM	Operating System Supported	Windows,MAC,Linux
	Supported Network Protocols	UDP,DHCP,HTTP,DNS,DDNS,RTSP,NTP,UPnP,SMTP,FTP,TCP/IP
	Supported Interface	Ethernet,HDMI,VGA,USB,2HDD SLOT
	Physical Layer of Ethernet	10/100/1000 Base TX
	Number of Ethernet Ports	1
	Number of HDMI Ports	1
	Number of VGA Ports	1
	Number of CVBS Ports	0
	Number of USB Ports	2
	Number of Serial Ports	0
	Number of PoE Ports	0
	Supported SIM Slot	NA
	Number of SIM Slots	0
FEATURES	Video Loop Support	Yes
	Video Recorder supports recording on NAS Directly	Yes
	Remote Administration (Remote Configuration And Status Using Web Based Tool)	Yes
	System Update (Remote System Update Over Network Using Web Client)	Yes
	PC Client (PC Application Client With A Channel Recording Feature Support)	Yes
	Web Client (Viewer through HTTP system configuration)	Yes
	On Screen Display (In English)	Yes
	Drivers / Compatible Software (Wherever Applicable) Part Of Supply	Yes
	Recording schedule support	Yes
	Bandwidth Control	Yes
	Camera Notification	Spot (POP up Window) on Event,E-mail
	Network transmission Speed	Variable Bit Rate (VBR),Constant Bit Rate (CBR)
	Other features, if any	-
PLAYBACK / VIEW / MANAGEMENT	Search	Date,Time,Event,Log,Motion
	Bookmarks	Forward,Backward,adjustable playback speed,Full Screen,Next Camera,Previous Camera,Repeat
	Page preview	Multi Monitor Support
	Total Management	Group add,Delete,ALARM MANAGEMENT,USER MANAGEMENT,STORAGE
	Camera	Add,Edit,Delete,Use Master account,Use Specific account
STORAGE	Internal Hard Drive Interface	SATA III
	Number of Hard Disks (inclusive in the scope of supply)	0
	Storage Capacity of each Hard Disk (TB)	8
	Total Storage Capacity(TB)	12
	Internal Storage Expandable upto (TB)	4
	Number of Hard Disks supported	2
	Redundancy Option	NA
POWER SUPPLY	Power Input	12 V DC
	Power Consumption	13
	Suitable Adapter to be Supplied to Make the Equipment Work on 230 V $\pm$ 10 %, 50 Hz	Yes
	Redundant Power Supply	No
OPERATING CONDITIONS	Minimum Operating Temperature	-10
	Maximum Operating Temperature	55
	Relative Humidity Non Condensing at 40 deg C	90

WARRANTY / SERVICES	Warranty	3
	Time for Replacement of Defective Product During Warranty Period	24
ENVIRONMENTAL / CERTIFICATION	Availability of facility and infrastructure for verification of all the parameters, features and capability with the Seller	No
	Conformity to Dry Heat test at Specified Maximum Operating Temperature for 16 hours as per IS :9000 latest	No
	Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	No
	Conformity to Cold test at Specified Minimum Operating Temperature for 4 hours as per IS: 9000 latest	No
	BIS Registration for safety general requirements as per IS: 13252 (Part 1): latest	Yes
	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	No
	Test Report Number and Date	-
	Name and Address of Test Lab	-
	Certification	FCC,CE,UL/BIS, BIS
LIST OF ITEMS	List of Items and Quantity of each item included in the offer	-

**Buyer Defined Additional Specification for Sparsh 8 Input and 8 Output Channel Video Recorder For Cctv System**

Specification	Value
NVR Storage	To be provided with in built 12TB storage
21 Inch LED Monitor to be supplied along with NVR	Map Type, 3D and 4K Display Technology, Stand Mount, Aspect ration 1:1, Display port- VGA, HDMI, 1600x900 RESOLUTION HD with Autolock Instalock/feature.. Allocation - Pathakhera (4), Pench(4), Umrer(1)

**Product Specification for netrack 6U Rack Enclosures Networking/Server Rack**

Specification	Sub-Spec	Value
Specifications	Type of Server Racks	Rack Enclosures
	Size of Server Rack Enclosure	6U
	Depth of the Rack (mm)	Upto 600
	Mount Type	Wall mount
	Front glass Door	Yes
	Type of glass used in front door	Transparent Toughened Glass
	Material used for rear door	SPCC Quality Cold Rolled Steel Metal
	Both rear and front doors with Perforation	Yes
	Side Panels With Key Locks and Slam Latch	No
	Secure Locks	Available
	Rear split door design	No
	Keyboard Tray Sliding and Rotary	No
	Shelf For CRT/TFT Display	No
	Cable channel in rear side for cable management	No
	Support cable entry from top or bottom	Yes
	Vertical & Horizontal managers	No
	Numbers of Rack trays	1
	Number of Fan For Heat dissipation (nos)	0
	Number of fan trays	0
	Heavy Duty Caster Wheels	NA
If yes, then Front Break Options	NA	

Load Bearing Capacity (Kgs)	50
If Wall mount racks then ,Swing-Out Racks	NA
Dust or water resistant	No
PDU Power Strips	Not Available
Weight (Kg)	10
Warranty (Years)	1

**Product Specification for tp-link 8 Ports Managed PoE+ Layer 2 Access Switch**

Specification	Sub-Spec	Value
Specification	Type of Switch	Managed
	Technology	PoE+
	Number of 1G Copper Ports	8
	Number of 10G Copper Ports	0
	No. of 1 G SFP Port (Uplink)	2
	No. of 10 G SFP+ Port (Uplink)	0
	Multi-Gigabit Support	No
	Redundant Power supply ( from day one)	Not available
	Console Port	Not Available
	Switching Capacity -Non Blocking (Gbps)	20
	Throughput (MPPS)	14.88
	Operating System	available
	Dedicated Stacking Port/Slot ( from day one)	Not available
	Stacking Bandwidth (Gbps)	0
	Basic Layer-3 Protocol	IGMP Snooping V1/V2/V3 802.3ad LACP (Up to 6 aggregation groups, containing 4 ports per group)
	Security Feature	SSH v1/v2 SSL v2/v3/TLSv1 Port Security
	Management Protocol	Web-based GUI and CLI management SNMP v1/v2c/v3, compatible with public MIBs and TP-LINK private MIB
	QoS	Support 802.1p CoS/DSCP priority Support 8 priority queues Queue scheduling: SP, WRR, SP+WRR
	Operating Temperature Range (Degree C)	0°C~40°C
	Operating Humidity (RH)(%)	10%~90%
IPv6 Ready from day one and dully certified	Yes	
PoE Power Budget ( Watt )	75	
on Site OEM Warranty	3	

**Product Specification for NORDEN 0.57 mm (23 AWG) 8 Meter**

Specification	Sub-Spec	Value
	"CAT6 Cable can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet)."	Yes
	Maximum DC resistance - in Ohm/Km	Max. 100 Ohm/Km
	Conductor Material	Bare Copper
	Conductor Insulation Material	Polyethylene
	Inner jacket material	LSZH

CONSTRUCTIONAL	Conductor stranding	Solid
	Cable should have internal cross separator	Yes
	Storage temperature range	-20 deg.C to +60 deg. C
	Operating temperature range	-20 deg.C to +60 deg. C
	Each meter printed with sequential length counter of cable apart from marking requirement as per relevant specifications and certifications	Yes
Generic	Cate 6 cable (Out door use) conforming to TIA/EIA-568 C.2 or ISO/IEC:11801 latest	Yes
	Cable category	CAT6 UTP - Outer jacket PVC with Aluminium Armoured wire
	Conductor diameter	0.57 mm (23 AWG)
	Conductor count	8
	Length of cable in a bundle (Mtrs)	305 mtrs
CERTIFICATIONS	Category 6 cable shall have valid verified certificate from ETL /Intertek/UL/3P /GHMT /Delta as per CAT 6 standards ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest	Yes
	If "Yes" Certificate Number - Must declare	DUZX.E318213
	UL Marking on Cable	Yes
	Availability of complete and satisfactory type test Report from Central Government / NABL/ ILAC accredited laboratory as per Governing Specification	Yes
	Test report Number	DUZX.E318213
	Report date	30.05.2020
	Name and address of Lab	UL UK
	All the test reports shall furnish to the buyer/consignee on demand	Yes

**Buyer added Bid Specific Additional Scope of Work**

S.No	Document Title	Description	Applicable i.r.o. Items				
1	Scope of Work View	Scope includes CAMC and other terms as per attached Sheet	Camera For CCTV System(13)	Video Recorder For Cctv System-IS 9000(9)	Networking/Server Rack(15)	Layer 2 Access Switch(26)	Online Ups-IS:9000(8)

**Terms and Conditions**

**1. Special terms and conditions- Version:1 effective from 04-05-2020**

**1.1**

Calculation of Minimum VAH based on Back up time

Minimum VAH requirements would be calculated on the basis of following:

(VAH Calculation: Battery Voltage x Battery Ah x No. of Batteries = VAH)

UPS Rating	15 Minutes	30 Minutes	60 Minutes	90 Minutes	120 Minutes	180 Minutes	240 Minutes
1 KVA	400 VAH	800 VAH	1600 VAH	2400 VAH	3200 VAH	4800 VAH	6400 VAH
2 KVA	800 VAH	1600 VAH	3200 VAH	4800 VAH	6400 VAH	9600 VAH	12800 VAH
3 KVA	1200 VAH	2400 VAH	4800 VAH	7200VAH	9600 VAH	14400 VAH	19200 VAH
5 KVA	2000 VAH	4000 VAH	8000 VAH	12000 VAH	16000 VAH	24000 VAH	32000 VAH
6 KVA	2400 VAH	4800 VAH	9600 VAH	14400 VAH	19200 VAH	28800 VAH	38400 VAH
7.5 KVA	3000 VAH	6000 VAH	12000 VAH	18000 VAH	24000 VAH	36000 VAH	48000 VAH
10 KVA	4000 VAH	8000 VAH	16000 VAH	24000 VAH	32000 VAH	48000 VAH	64000 VAH
15 KVA	6000 VAH	12000 VAH	24000 VAH	36000 VAH	48000 VAH	72000 VAH	96000 VAH
20 KVA	8000 VAH	16000 VAH	32000 VAH	48000 VAH	64000 VAH	96000 VAH	128000 VAH
30 KVA	12000 VAH	24000 VAH	48000 VAH	72000 VAH	96000 VAH	144000 VAH	192000 VAH
40 KVA	16000 VAH	32000 VAH	64000 VAH	96000 VAH	128000 VAH	192000 VAH	256000 VAH

60 KVA	24000 VAH	48000 VAH	96000 VAH	144000 VAH	192000 VAH	288000 VAH	384000 VAH
80 KVA	32000 VAH	64000 VAH	128000 VAH	192000 VAH	256000 VAH	384000 VAH	512000 VAH
100 KVA	40000 VAH	80000 VAH	160000 VAH	240000 VAH	320000 VAH	480000 VAH	640000 VAH

## 2. General Terms and Conditions-

2.1 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) as available on the GeM portal (unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable

2.2 Terms of delivery: Free Delivery at Site including loading/unloading. In respect of items requiring installation and / or commissioning and other services in the scope of supply (as indicated in respective product category specification / STC / ATC), and the cost of the same is also included in the Contract price.

2.2.1 Contracted goods should be delivered at the consignee or designated delivery location as per the working time of the buying organisation. Seller may get the same confirmed from consignee before scheduling delivery.

2.2.2 A copy of the contract should be available with the messenger / dispatching agency that delivers the Goods at consignee / delivery location (preferably pasted / attached outside the consignment / package) for easy reference and ease in delivery acceptance.

2.3 Delivery period: The Delivery Period/Time shall be essence of the Contract and delivery must be completed not later than such date(s). Any modification thereto shall be mutually agreed and incorporated in the Contract as per the provisions of the GTC.

2.4 Performance Security: If the Seller fails or neglects to observe or perform any of his obligations under the contract it shall be lawful for the Buyer to forfeit either in whole or in part, the Performance Security furnished by the Seller.

2.5 Taxes and Duties: Contract Prices are all inclusive i.e. including all taxes, duties, local levies / transportation / loading-unloading charges etc. Break up of GST shall be indicated by the Seller while raising invoice / bill on GeM. While submitting the bill / invoice Seller shall undertake that the Goods and Services Tax (GST) charged on this bill is not more than what is payable under the provision on the relevant Act or the Rules made there under and that the Goods on which GST has been charged have not been exempted under the GST Act or the Rules made there under and the charges on account of GST on these goods are correct under the provision of that Act or the rules made there under.

2.6 Octroi Duty and / or other local taxes: Contract Prices are all inclusive hence no reimbursement over and above the contract price(s) shall be allowed to seller towards payment of local taxes (such as levy of town duty, Octroi Duty, Terminal Tax and other levies of local bodies etc).

2.7 Limitation of Liability: The provisions of limitation of liability between Buyer and Seller as given in the GTC shall be applicable here.

2.8 Resolution of disputes: The provisions of DISPUTE RESOLUTION BETWEEN BUYER AND SELLER as given in the GTC shall be applicable here.

2.9 Liquidated Damages: If the Seller fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever. In case, Service Level Agreement (SLA) is applicable the same shall be applicable for the Contract.

### 2.10 Financial Certificate:

2.10.1 The expenditure involved for this purpose has received the Sanction of the competent financial authority.

2.10.2 The funds are available under the proper head in the sanction budget allotment for the concern financial year.

2.10.3 I have been fully authorized by the department to sign the supply order or incur the liability of the Goods being ordered.

2.11 The bidder should submit a self declaration to the effect in bidder's official letter head that their agency have not been black listed by any Agency whatsoever till date.

## 3. Additional Terms and conditions-

3.1 Scope of supply (Bid price to include all cost components): Bidder should submit their Bid for all the items. Evaluation will be on the total value of supply (not on item wise value) along with installation and subsequent comprehensive warranty period as per bid document for the respective items

3.2 Scope of supply (Bid price to include all cost components) Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

3.3 Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

3.4 Bid reserved for Make In India products: Procurement under this bid is reserved for purchase from local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a local supplier, should be as per relevant notification / order issued by the nodal ministry as available on the website of Department of Industries and Internal Trade (DPIIT). All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 29.5.2019. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

3.5 To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): Bid Security Declaration" accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for six months" & should submit a certificate from OEM declaring percentage of local content as per MII OM's & Bidder should submit a certificate regarding restrictions on procurement from a bidder of country which shares a land border with india as per Office memorandums

Issued by Deptt of Expenditure ,PPD , Ministry of Fin under F.No.6/18/2019-PPD dt 23/7/2020.

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