



Republika ng Pilipinas

## Kagawaran ng Edukasyon

Tanggapan ng Pangalawang Kalihim

## OUA MEMO 00-0820-0095 MEMORANDUM

12 August 2020

- For: Regional Directors and BARMM Regional Secretary Schools Division Superintendents Regional and Division Supply Officers Regional and Division IT Officers Finance Officers All Others Concerned
- Subject: IMPLEMENTING GUIDELINES ON UTILIZATION OF PROGRAM SUPPORT FUND (PSF) FOR THE PROCUREMENT OF NETWORK INFRASTRUCTURE TO REGIONAL AND DIVISION OFFICES TO SUPPORT DEPED ENTERPRISE RESOURCE PLANNING SYSTEM (DERPS) II PROJECT
- A. The Department of Education (DepEd) is continuously engaged to develop, support and strengthen education management and learning support systems for improved access to quality basic education.
- B. To sustain the implementation of various ICT initiatives, projects and activities, the DepEd through the Information and Communications Technology Service (ICTS) has been providing financial subsidy to all regions and divisions nationwide.
- C. This year, the Program Support Funds (PSF) amounting to **SIXTY EIGHT MILLION SIXTY THREE THOUSAND ONE HUNDRED TWENTY ONE PESOS AND SIXTY-NINE CENTAVOS** (Php68,063,121.69) shall be downloaded to fifteen (15) Regional Offices and thirty-four (34) Division Offices through the issuance of the Subsidy Allotment Release Order (SARO). Each office shall receive equal amount of **ONE MILLION THREE HUNDRED EIGHTY-NINE THOUSAND AND FORTY - THREE PESOS AND THIRTY CENTAVOS** (Php1,389,043.30). Refer to "Annex A" for the complete list.
- D. The downloaded funds shall be used for the following purposes:



1. To support the implementation, Deployment and Configuration of





**Office of the Undersecretary for Administration (OUA)** [Administrative Service (AS), Information and Communications Technology Service (ICTS), Disaster Risk Reduction and Management Service (DRMMS), Bureau of Learner Support Services (BLSS), Baguio Teachers Camp (BTC), Central Security & Safety Office (CSSO)]

Department of Education, Central Office, Meralco Avenue, Pasig City Rm 519, Mabini Bldg; Mobile: +639260320762; Tel: (+632) 86337203, (+632) 86376207 Email: usec.admin@deped.gov.ph; Facebook/Twitter @depedtayo following DERPS I modules at fifteen (15) Regional Office and thirty-four Division Offices:

- a. Procurement module.
- b. Fixed Assets Management module.
- c. Inventory Management module; and
- d. Project Monitoring.

Part of the scope of work and deliverables of DERPS II is the installation and configuration of Server/Appliance. Refer to "Annex B" and "Annex C" for the technical specifications of Server/Appliance for Regional and Division Offices, respectively.

- 2. To support the learning resource systems and learning continuity amidst COVID 19.
- E. The following Information and Communication Technology Equipment / Devices / Works shall be allowed under the PSF:

ACTIVITY	Information and Communication Technology
ACTIVITY	Equipment / devices / Works
Procurement of Network	Passive Network Component
Infrastructure	Structured Cabling
	Data cabinet
	Wall mount rack
	Active Network Component
	Access Points
	Router
	Network Switch
	Perimeter Firewall
	Uninterrupted Power Supply
	Power Distribution Unit (PDU)
	Air Conditioning Unit
	Fire Suppression System
	Fire Detection and Alarm System
	Security Camera
	Door Access System (e.g. Biometrics, Face
	and RFID Reader)
	Including:
	• Implementation Services for electrical and
	civil works
	<ul> <li>Provides Knowledge Transfer/Training of</li> </ul>
	the set-up for the end user
Rehabilitation/Upgrading	Passive Network Component
of existing Network	Structured Cabling
Infrastructure	Data Cabinet
	Wall mount rack
	Active Network Component

Access Points
• Router
• Switch
Perimeter Firewall
Uninterrupted Power Supply
Power Distribution Unit (PDU)
Air Conditioning Unit
Fire Suppression System
Fire Detection and Alarm System
Security Camera
Door Access System (e.g. Biometrics, Face
and RFID Reader)
Including:
• Implementation Services for electrical and
civil works
<ul> <li>Provides Knowledge Transfer/Training of</li> </ul>
the set-up for the end user

## F. Utilization and Liquidation

- 1. The recipient Regional and Division Offices shall prepare their respective plans and requirements based on the needs of their offices to support the above stated purposes. Refer to "Annex D" for the minimum technical specifications.
- 2. The use of the Program Support Fund must be consistent with the existing budgeting, accounting, auditing and procurement rules and regulations and internal policies of the Department of Education.
- 3. The management and disbursement of funds, including submission of Physical and Financial Accomplishment Report shall be the responsibility of the Regional and Division Information Technology Officers (ITOs).
- 4. The Physical and Financial Accomplishment Report, which reflects the activities undertaken shall be submitted to the ICTS-Technology Infrastructure Division through email at <u>icts.tid@deped.gov.ph.</u>

For clarification or more information on these matter, please direct concerns to Engr. Ofelia L. Algo, Chief, Technology Infrastructure Division, Information and Communication Technology Service at 6332363/ 09088782413, Email: ofelia.algo@deped.gov.ph

For reference and appropriate action.

ALAIN DELB. PASCUA Undersecretary OUAD00-0820-00 95 authenticate this document

# **DERPS II RECIPIENTS**

## LIST OF REGIONAL OFFICES

REGION	ADDRESS
Cordillera Administrative Region	Wangal, La Trinidad, Benguet
Regions I – Ilocos Region	Flores St., Catbangen, San Fernando City, La Union
Region II – Cagayan Valley	Carig, Tuguegarao City, Cagayan
Region IV-A – CALABARZON	Karangalan ES, Karangalan Village, Cainta, Rizal
Region IV-B – MIMAROPA	Meralco Ave., Corner St. Paul Road, Pasig City
Region V – Bicol Region	Rawis, Legaspi City
Region VI – Western Visayas	Duran St., Iloilo City
Region VII – Central Visayas	Sudlon, Lahug, Cebu City
Region VIII – Eastern Visayas	Gov't Center, Candahug, Palo, Leyte
Region IX – Zamboanga Peninsula	J. Alano St. Pagadian City
Region X – Northern Mindanao	Don Gregroio Pelaez Sports Complex, Velez St., Cagayan de Oro City
Region X1 – Davao Region	F. Torres St. Davao City
Region XII – SOCCSKSARGEN	Carpenter Hill, Koronadal City
Region XIII – CARAGA Region	Km. 3, Libertad St., Butuan City
Bangsamoro Autonomous Region (BARMM)	Cotabato City

REGIONAL OFFICE	DIVISION OFFICES	ADDRESS
0 111	Apayao	Kabugao, Apayao
Cordillera Administrative	Benguet	La Trinidad, Benguet
Region	Mountain Province	Bontoc, Mt. Province
	Ilocos Sur	Quirino Blvd., Zone V, Bantay, Ilocos Surangeo

Regions 1 – Ilocos Region	Pangasinan I	Alviar St., East, Capitol Grounds, Lingayen, Pangasinan
Region 2 –	Isabela	Ilagan City, Isabela
Cagayan Valley	Nueva Vizcaya	Bayombong, Nueva Vizcaya
Region III –	Zambales	Iba, Zambales
Central Luzon	Aurora	San Luis, Aurora
Region 4A –	Lucena	Lucena City
CALABARZON	Quezon Province	Talipan, Pagbilao, Quezon
Region 4B –	Oriental Mindoro	Calapan, Or. Mindoro
MIMAROPA	Palawan	Puerto Princesa City
Region 5 – Bicol	Masbate Province	Masbate City
Region	Camarines Sur	Freedom Sports Complex, San Jose, Pili, Cam. Sur
Region 6 –	Guimaras	Jordan, Guimaras
Western Visayas	Negros Occidental	Bacolod City, Negros Occidental
Region 7 –	Dumaguete	Dumaguete City, Negros Oriental
Central Visayas	Bohol	Tagbilaran City, Bohol
Region 8 –	Leyte	Tacloban City
Eastern Visayas	Northern Samar	Catarman, N. Samar
Region 9 –	Zamboanga del Norte	Dipolog City
Zamboanga Peninsula	Zamboanga del Sur	Pagadian City
Region 10 – Northern	Bukidnon	Malaybalay, Bukidnon
Mindanao	Lanao del Norte	Tobod, Lanao del Norte
Region 11 –	Digos	Digos City
Davao Region	Compostela Valley	Nabunturan, Compostela Valley
Region 12 – SOCCSKSARGEN	Kidapawan City	Kidapawan City
	Tacurong City	Tacurong City
	South Cotabato	Alunan Ave., Koronadal City

Region 13 –	Bislig	Bislig City
CARAGA Region	Agusan del Sur	Prosperidad, Agusan del Sur
Bangsamoro	Basilan	Isabela, Basilan
Autonomous Region (BARMM)	Marawi	Marawi City



## "Annex B"

## SERVER/APPLIANCE FOR REGIONAL OFFICES TECHNICAL SPECIFICATIONS

## Brand: Oracle Database Appliance Model: X8-2-HA

#### **General Features:**

1. Single automated patching interface and patch bundle to update and patch software system components such as firmware and hardware drivers, operating system, storage manager, clustering software, and database

2. Hardware and software configuration built to protect against component failures such as disk failures, CPU failures, memory failure, network card failures, and system controller failures.

3. Hot-pluggable components such as power units, fans, and storage disks

## **Technical Specifications**

Two 2RU X8-2L Server:

Each Server with:

1. Processor: 2x Intel Xeon Gold 5218 2.3 GHz, 16 cores, 125 watts, XCC, 22 MB L3 cache

- 2. Memory: 384 GB (12 x 32 GB)
- 3. Internal Storage:
- 4. -2x internal 480 GB M.2 SSDs
- 5. Network: 4-port 10GBase-T card
- 6. One 4RU DE3-24C Storage Array: 12x 7.68 TB SSD

## Power

1. Two 1,200 watt hot-swappable and redundant power supplies, rated 96% efficiency

- 2. Rated line voltage: 100 to 240 Vac
- 3. Rated input current 100 to 127 VAC 7.2 A and 200 to 240 VAC 3.4 A
- 4. Two 580 Watt hot-swappable, redundant power supplies per storage shelf, rated 88% efficiency
- 5. Rated line voltage: 100 to 240 Vac
- 6. Rated input current: 100 VAC 8A and 240 VAC 3A

## **Dimensions and Weight**

- 1. Height: 86.9 mm (3.4 in.) per server; 175 mm (6.9 in.) per storage shelf
- 2. Width: 445.0 mm (17.5 in.) per server; 483 mm (19.0 in.) per storage shelf
- 3. Depth: 759.4 mm (29.9 in.) per server; 630 mm (24.8 in.) per storage shelf
- 4. Weight: 28.6 kg (63 lb.) per server; 38 kg (84 lbs.) per storage shelf



## "Annex C"

## SERVER/APPLIANCE FOR DIVISION OFFICES TECHNICAL SPECIFICATIONS

#### Brand: Oracle Server Model: X8-2L

## **General Features**:

1. Single automated patching interface and patch bundle to update and patch software system components such as firmware and hardware drivers, operating system, storage manager, and database

2. Hardware and software configuration built to protect against component failures such as disk failures, CPU failures, memory failure, network card failures, and system controller failures.

3. Hot-pluggable components such as power units, fans, and storage disks

## **Technical Specifications**

1. Processor: 2x Intel Xeon Gold 5218 2.3 GHz, 16 cores, 125 watts, XCC, 22 MB L3 cache

- 2. Memory: 384 GB (12 x 32 GB)
- 3. 2x internal 480 GB M.2 SSDs
- 4. Network: 4-port 10GBase-T card
- 5. Disk storage: 2x NVMe SSDs (6.4 TB per drive

#### **Power Requirement**

1. Two 1,200 watt hot-swappable and redundant power supplies, rated 96% efficiency

- 2. Rated line voltage: 100 to 240 VAC
- 3. Rated input current 100 to 127 VAC 10 A and 200 to 240 VAC 7 A

## **Dimensions and Weight**

- 1. Height: 86.9 mm (3.4 in.)
- 2. Width: 445.0 mm (17.5 in.)
- 3. Depth: 759.4 mm (29.9 in.)
- 4. Weight: 28.6 kg (63 lb.) fully populated



## "Annex D"

## MINIMUM TECHNICAL SPECIFICATIONS

<u>ns</u>
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Cthernet
t speeds
802.3u, IEEE
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witch,
4 port (1000T-
. port (10001
VLAN assignment



[	
	<ul> <li>Secure Shell (SSH)</li> <li>Simple Network Management Protocol (SNMP)</li> <li>Standards Compliance: IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3at, IEEE 802.3af, IEEE 802.1w;</li> <li>Provides Knowledge Transfer/Training of the set-up for the end user</li> <li>Warranty:3 years parts and services from date of acceptance</li> </ul>
	and on-site service
03	WAN Router
	Minimum Technical Specifications
	·· ·· · · · · · · · · · · · ·
	• Brand New
	• LAN interface: Atleast four (4) 10/100BASE-T LAN ports
	<ul> <li>Routing: Static routing, RIPv1/v2 and OSPF</li> </ul>
	<ul> <li>Must support 3G/4G</li> </ul>
	<ul> <li>Must have VPN Security</li> </ul>
	• IPSec
	<ul> <li>Point-to-Point Tunneling Protocol (PPTP)</li> </ul>
	<ul> <li>Layer Two Tunneling Protocol (L2TP)</li> </ul>
	<ul> <li>Must support Network Address Translation (NAT)</li> </ul>
	• Wast support Network Address Translation (NAT) • VPN NAT
	• Must have Quality of Service (QoS)
	<ul> <li>Low-Latency Queuing (LLQ)</li> <li>Weighted Fair Operation (WEQ)</li> </ul>
	• Weighted Fair Queuing (WFQ)
	• Provides Knowledge Transfer/Training of the set-up for the
	end user
	• Warranty:3 years parts and services from date of acceptance
	and on-site service
04	PoE Access Point
	Minimum Technical Specifications
	Brand New
	<ul> <li>Brand New</li> <li>Built-in Antenna</li> </ul>
	• Standards: 802.11a/b/g/n/ac wave 2 with 2.4GHz/5GHz
	frequency bands; dual band
	Device Management: Web management
	• Throughput: 1100mbps
	<ul> <li>Interface: 10/100/1000BASE-T Ethernet uplink</li> <li>Authentications 200, 1m DDSK DEAD DADUIS</li> </ul>
	Authentication: 802.1x,PPSK,PEAP,RADIUS
	<ul> <li>Data Encryption: WPA (TKIP), WPA2 (AES), WPA-PSK</li> </ul>
	• Features:
	<ul> <li>Load balancing based on the number of users or traffic</li> </ul>
	<ul> <li>Bandwidth control</li> </ul>
	<ul> <li>Manual or automatic configuration</li> </ul>
	Power Requirement: Power over Ethernet (PoE)
	0



	<ul> <li>Provides Knowledge Transfer/Training of the set-up for the end user</li> <li>Warranty:3 years parts and services from date of acceptance and on site convice.</li> </ul>
05	and on-site service       Wireless Router
	Minimum Technical Specifications
	<ul> <li>Brand New</li> <li>Standards: Supports 802.11b, 802.11a, 802.11n, 802.11ac, 802.11g with 2.4GHz/5GHz frequency bands; dual band</li> <li>Device Management: Web based</li> <li>Operational Mode: At least as a Wireless Router, Access Point</li> <li>Data transfer rate: 400mbps</li> <li>Interface: 1x Gigabit WAN port, 4x Gigabit LAN ports</li> <li>Security: <ul> <li>64/128-bit WEP</li> <li>WPA2-Personal</li> <li>WPA2-Enterprise</li> </ul> </li> <li>Certification FCC class B</li> <li>Power Requirement: <ul> <li>Input: 100-240V ~ 50-60Hz</li> </ul> </li> <li>Provided with User Guide, Ethernet Network Cable and Power Adapter</li> </ul>
06	Perimeter Firewall
	Minimum Technical Specifications
	<ul> <li>Must accommodate 150 - 200 users (Depend on the number of personnel in the Regional and Division Offices)</li> <li>Virtual Private Network</li> <li>Bandwidth Management</li> <li>Multiple Link Management</li> <li>Comprehensive on Appliance Reporting</li> <li>With all subscription services (minimum 1 year subscription) <ul> <li>Gateway Anti-Virus</li> <li>Gateway Anti-Spyware</li> <li>Gateway Anti-Spam</li> <li>Intrusion Detection and Prevention Systems</li> <li>Content Filtering</li> </ul> </li> <li>Must have comprehensive training on installation, configuration, deployment of rule sets and system navigation and best practice guide in administering the equipment and subscribed services</li> </ul>
	• Warranty: 3 years parts and services from date of acceptance



	Minimum Technical Specifications
	• IP Cameras
	<ul> <li>Indoor Dome Fixed Focal Network Camera:</li> <li>Outdoor Bullet Fixed Focal Network Camera:</li> </ul>
	<ul> <li>Outdoor Bullet Fixed Focal Network Camera:</li> <li>Image Sensor: <sup>1</sup>/<sub>3</sub> " progressive Scan CMOS</li> </ul>
	<ul> <li>Min. Illumination (lux):Color: 0.07 @ f/1.2 B/W:0 with</li> </ul>
	IR
	• Lens:2.8 mm - 4 mm @ f/2.0 (4 mm option)
	• BLC / WDR: Digital
	<ul> <li>IR Range: 30 meters</li> </ul>
	<ul> <li>Video Compression: H.264/MJPEG</li> </ul>
	• Max. Image Resolution (pixels): 1920 x 1080
	• Frame Rate(fps): 25 @ 1920 x 1080, 1280 x 960, 1280 x
	720 Multi streeming: Duel
	<ul> <li>Multi-streaming: Dual</li> <li>Network Video Recorder:</li> </ul>
	<ul> <li>Network video Recorder.</li> <li>Video Compression: H.264</li> </ul>
	<ul> <li>HDMI/VGA Output: 1920 x 1080/ 1920 x 1080</li> </ul>
	• IP Video Input: 16-ch IPC with integrated 16 port
	802.3af and at PoE switch
	• USB: 1 USB 2.0; 1 USB 3.0
	<ul> <li>Internal SATA: 2 SATA interfaces</li> </ul>
	• Other Services / Labor must include:
	<ul> <li>Must perform a Site Survey</li> </ul>
	• System design proposal and installation planning
	<ul> <li>Installation and Configuration Service</li> </ul>
	<ul> <li>Must carry out a Test and Commission.</li> <li>Scheduled Dreventing Maintenance and comising repair</li> </ul>
	<ul> <li>Scheduled Preventive Maintenance and servicing repair must be carried out by contractor's client assigned</li> </ul>
	personnel
	<ul> <li>Any on-site maintenance the client shall receive in</li> </ul>
	writing, email or documentation about the said activity
	with on-site assigned DepEd personnel signature.
	• Must conduct Product Training/ Knowledge Transfer.
	<ul> <li>Must provide detailed and reliable Documentation</li> </ul>
	Manual.
08	Uninterruptible Power Supply (UPS)
	Minimum Technical Specifications
	Minimum Technical Specifications
	• Brand New
	• Output power capacity: 390Watts / 620VAMax
	• Configurable Power: 390Watts / 620VA
	Nominal Output Voltage: 230V
	• Output Frequency (sync to mains) : 50/60Hz +/- 3 Hz
	<ul> <li>Nominal Input Voltage: 230V</li> </ul>
	• Input frequency: 50/60 Hz +/- 3 Hz
	<ul> <li>Input voltage range for main operations : 195 - 265V</li> </ul>



	- Transie al march a march time a file angula)
	• Typical recharge time : 5hour(s)
	• Surge energy rating : 320Joules
00	Warranty: Three (3) years on battery, parts and service
09	Door Access System (Biometrics, Face and RFID Reader)
	Minimum Technical Specifications
	• Display 3-inch Touch Screen
	• Face Capacity 1,500 (1:N)
	• Fingerprint Capacity 2,000
	ID Card Capacity(optional) 10,000
	• Log Capacity 100,000
	Camera High Resolution Infrared Camera
	• Communication TCP/IP, RS232/485, USB-host
	• Access Control Interface for 3rd party electric lock, door
	sensor, exit button, alarm, wired doorbell.
	<ul> <li>Anti-pass back Function.</li> </ul>
	• Wiegand Signal Input & Output.
	• Standard Access Control Function: Time Zone, Group, Multi-
	identification Duress mode, Anti-pass back, Tamper alarm
	<ul> <li>Optional Functions ID card, Mifare Card.</li> </ul>
	• Power Supply 12V DC.
	<ul> <li>Operating Temperature 0 - 45 °C</li> </ul>
	• Operating Humidity 20% -80%
	• Dimension(L×H×D) mm 209.4×87.5×91.6
	• Gross Weight 0.87kg
	• Services must include:
	<ul> <li>Installation and Configuration Service</li> </ul>
	<ul> <li>Must carry out a Test and Commission.</li> <li>Must carduat Draduet Training / Knowledge Transfer</li> </ul>
	<ul> <li>Must conduct Product Training/ Knowledge Transfer</li> <li>Must provide detailed and reliable Decumentation</li> </ul>
	<ul> <li>Must provide detailed and reliable Documentation Manual.</li> </ul>
10	Fire Suppression (FM 200)
10	rite Suppression (rm 200)
	Minimum Technical Specifications
	• Fully self-contained fire detection & suppression system
	Additional environmental control capabilities
	• Compact 2U x 19" chassis mounting
	<ul> <li>Local/remote audio/visual condition monitoring &amp; control</li> </ul>
	<ul> <li>Monitored alarm/fault circuits</li> </ul>
	<ul> <li>Visual alarm &amp; fault status indications</li> </ul>
	<ul> <li>Point-type or air sampling smoke detection</li> </ul>
	Single or coincident alarm
	Choice of gaseous extinguishant types
	• Selectable gas release delay
	• 24-hour battery back-up
	• Fan/power shutdown control
	IT/BMS data output



Air- Conditioning Unit         Minimum Technical Specifications <ul> <li>Brand New</li> <li>Aircon Type: Split</li> <li>Cooling Capacity (HP): 2.5HP</li> <li>Inverter Technology</li> <li>Energy Efficiency Ratio Rating (ERR): 11.7</li> <li>Input Power: Single 230V/60Hz</li> <li>Remote Controlled</li> <li>Warranty:                 <ul> <li>Five (5) Year Warranty on Compressor;</li> <li>One (1) Year Warranty on Parts &amp; Labor/Service</li> </ul> </li> </ul> <li>Al accessories and works necessary to complete the installation and testing will be included.</li> <li>Dismantling of existing / old units are also included.</li> <li>Must have User Manual.</li> <li>Stand Alone FDAS with Notification</li> <li>Minimum Technical Specifications</li> <li>Unique X-Profile detection chamber controlled by bespoke software.</li> <li>TSE-Technology (Thermal Stability Enhancement) provides stability across a range of environmental conditions, reducing nuisance alarms whilst enhancing detection.</li> <li>ALARM SILENCE BUTTON. Ideal in non-emergency situations (nuisance alarms).</li> <li>SILENCE LOW BATTERY WARNING chirp for up to 10 hours. Maintains continuous protection during sleeping hours. Maintains continuous protection during sleeping hours.</li> <li>Must provide detailed and reliable User Manual</li> <li>Dett: 1070mm</li> <li>Net Weight: 65kg</li> <li>Mounting Depth: 165mm</li> <li>Weight Capacity (static load): 400 kg</li> <li>Wids have integrated electrical grounding.</li> <li>Must have Keyed-alike doors and side panels</li> <li>Must have cable access openings with pre-installed brushers</li>		EMC tested/CE mark tested
<ul> <li>Brand New         <ul> <li>Aircon Type: Split</li> <li>Cooling Capacity (HP): 2.5HP</li> <li>Inverter Technology</li> <li>Energy Efficiency Ratio Rating (ERR): 11.7</li> <li>Input Power: Single 230V/60Hz</li> <li>Remote Controlled</li> <li>Warranty:                 <ul> <li>Five (5) Year Warranty on Compressor;</li> <li>One (1) Year Warranty on Parts &amp; Labor/Service</li> <li>All accessories and works necessary to complete the installation and testing will be included.</li> <li>Dismantling of existing / old units are also included.</li> <li>Must have User Manual.</li> </ul> </li> </ul> </li> <li>Stand Alone FDAS with Notification         <ul> <li>Minimum Technical Specifications</li> <li>Unique X-Profile detection chamber controlled by bespoke software.</li> <li>TSE-Technology (Thermal Stability Enhancement) provides stability across a range of environmental conditions, reducing nuisance alarms whilst enhancing detection.</li> <li>ALARM SILENCE BUTTON. Ideal in non-emergency situations (nuisance alarms).</li> <li>SILENCE LOW BATTERY WARNING chirp for up to 10 hours. Maintains continuous protection during sleeping hours</li></ul></li></ul>	11 /	Air- Conditioning Unit
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Must have easily removable cable access roof		
Must have cable access openings with pre-installed brushess		
		• Must have cable access openings with pre-installed brushes

	• Must have half height aids namels and antion with housh				
	• Must have half-height side panels and option with brush				
	strips				
14	Warranty of five (5) years repair or replace  Wall Mounted Rack				
14	wan mounted Rack				
	Minimum Technical Specifications				
	• 1 feet height				
	Wall mounted rack				
	• bare structure with four (4) standard holes vertical mounting				
	rails				
	• 2-vented detachable side panels w/ lock and louvers				
	• vented detachable flexi glass front door w/ lock,				
	• Electrical power 4 outlets 3 Prong 220V Power strip				
	Clip nuts included				
15	Rack power distribution units (PDUs)				
	Minimum Technical Specifications				
	• Input Current: 16A				
	• Input frequency: 50/60 Hz				
	Input Voltage: 100 - 240VAC				
16	Structured Cabling				
	Minimum Technical Specifications				
	Network Cable – CAT6 UTP Cable				
	Actwork Cable - CATO OTT Cable				
	• The copper cable shall either be 4-pair 100 Balanced Twisted				
	Pair cable (UTP) with rip cord and dielectric central isolation				
	member				
	<ul> <li>Shall comply to the following standards:</li> </ul>				
	• ANSI/TIA/EIA-568B.2-1				
	• ISO/IEC 11801:2002 2nd Edition (Category 6)				
	• IEC 61156-5 1st Edition				
	• LSOH: IEC 332: Part 1, IEC 754 and IEC 1034				
	• UL CM11				
	• Minimum bend radius 1.00"				
	<ul> <li>100 % of final production reels are tested to 550 MHz</li> </ul>				
	• Must be 0.57mm (0.23 in) (24AWG) solid bare copper				
	• The maximum jacket diameter (for 4-pair UTP cable) shall not				
	exceed 6.35 mm (0.25 in). sequential meter markings on				
	jackets are appropriate for the environment in which it is				
	installed.				
	<ul> <li>Be made by an ISO 9001 Certified Manufacturer</li> </ul>				
	Cat6 Information Outlet/Modular Jacks				



• All information outlets for 100 22-26 AWG copper cable
shall:
• Utilize full retention force technology with optimized
pair balance design and linear crosstalk response to
address applications up to 250 MHz.
<ul> <li>Be available in color blue for voice and yellow for data.</li> </ul>
<ul> <li>Be backwards compatible to allow lower performing</li> </ul>
categories of cables or connecting hardware to operate
to their full capacity.
<ul> <li>Allow for a minimum of 200 re-terminations without</li> </ul>
signal degradation below standards compliance limit.
<ul> <li>Support industry standards for T568A or T568B wiring</li> </ul>
options on each individual outlet.
<ul> <li>Be constructed of high impact, flame-retardant</li> </ul>
thermoplastic.
• Be made by an ISO 9001 Certified Manufacturer.
J J J J J J J J J J J J J J J J J J J
Electrical Specifications:
• ANSI/TIA/EIA-568-B and ISO/IEC 11801 category 6
compliant.
<ul> <li>Be UL VERIFIED for TIA/EIA category 6 electrical</li> </ul>
performance.
<ul> <li>Be UL LISTED 1863 and cUL C22.2 approved.</li> </ul>
Cat6 Patch panel, 24 ports
• The termination panels shall support the appropriate
Category 6 applications and facilitate cross connection and interconnection using modular patch cords. The panels shall
be sized to fit an EIA standard, 19 inch relay rack, or be
capable of mounting to a wall.
<ul> <li>The panel shall:</li> </ul>
• Be made of black anodized aluminum, in 16-, 24-, 32-,
48- and 96-port configurations.
<ul> <li>Accommodate at least 24 ports for each rack mount</li> </ul>
space $(1 \text{ ms} = 44.5 \text{ mm} [1.75 \text{ in.}]).$
<ul> <li>Have circuit boards tested in both directions as</li> </ul>
required by ANSI/TIA/EIA-568-B and ISO/IEC 11801.
• Utilizes full retention force technology with optimized
pair balance design and linear crossfalk response to
address applications up to 250 MHz.
• Have termination accomplished with a single conductor
impact tool.
• Be backwards compatible to allow lower performing
categories of cables or connecting hardware to operate
to their full capacity.
• Have rear protective strain relief caps with side or rear
entry, which can be installed onto cable before or after
termination.



C	Support industry standards for T568A or T568B wiring options on each individual outlet.
С	
C	
	gold plating over nickel contacts.
C	
	of printed circuit boards.
C	Have a rear cable management bar for strain relief.
C	Have port identification numbers on both the front and rear of the panel.
C	
	color coding designation strips provided with the panel.
C	designation labels with the panel, with optional color
	labels available.
	Be made by an ISO 9001 etrical Specifications:
	compliant.
C	
	category 6 electrical performance.
C	B UL LISTED 1863 and cUL C22.2 approved.
<u>Faceplate</u>	s, Duplex
• All f	aceplates shall:
C	Be applicable copper applications.
C	
	identification together with a clear plastic cover.
C	
C	configurations. Have optional modular furniture adapters available.
C	
	for both single and double gang faceplates.
C	
C	Color: White
<u>Cat6 Patc</u>	h Cord
• 20	meters at work area
C 2.0	· · · ·
• Fact	tory Machine Made and Injection Molded
	gless Boot Design for easy handling
• CAT	6 550Mhz rated
<ul> <li>CAT</li> <li>UTP</li> </ul>	6 550Mhz rated 9 Unshielded Twisted Pair Type PVC Jacket



<ul> <li>24AWG 4 Pair Stranded Core Copper</li> <li>Gold Plated Contacts</li> <li>UL/ETL listed and RoHS Compliant</li> <li>Conduit         <ul> <li>PVC pipe. Must conform to the percent (%) fill as per</li> </ul> </li> </ul>	
Conduit	
• PVC nine Must conform to the percent (%) fill as per	
• I ve pipe. Must comorni to the percent (70) in as per	
standard.	
Services	
• Must include:	
• Site Survey	
<ul> <li>Physical Installation</li> </ul>	
• Testing	
<ul> <li>Labeling/Tagging</li> </ul>	NG S
	EDUTS.
	vu