



## INVITATION TO BID

### IMPROVEMENT/ UPGRADE OF SDO NETWORK INFRASTRUCTURE

1. The *Schools Division Office of Catanduanes* through the *General Appropriation Act (GAA) CY 2021* intends to apply the sum of **One Million Pesos Only (Php1,000,000.00)**, being the Approved Budget for the Contract (ABC) to payments under the contract for the project *Improvement/ Upgrade of SDO Network Infrastructure*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

DESCRIPTION		
Unit	ITEMS	Quantity
pc	<b>SERVER CABINET</b>	<b>1</b>
	-Brand New	
	-Height: 24u	
	Ventilation: The server rack includes a perforated and curved front door which can be easily removed when required. The rear door of the rack is double opening, while both side panels split into two parts.	
	-Must have keyed front and back doors and side panels	
	-Cabling: The rack possesses several adjustable cable routing channels within the top and bottom of the rack. In addition, both sides of the rear panel are fitted with cable management routing holes at the bottom.	
	-With integrated electrical groundings	
	-With 8" fan	
	-Coating: Powder Coated	
	-Material: Cold Rolled Steel	
	-Warranty: 5 years repair or replace	
pc	<b>NETWORK SERVER</b>	<b>1</b>
	-Brand New	
	-Processor: Intel Xeon Quad Core E5-2609 2.4Ghz	
	-Chipset: Intel C602 Chipset/X9DRW-1F	
	-CPU Support: Dual Capable	
	-System Memory: 2 x 8GB DDR3-1333 ECC Reg., 16 DIMM sockets	
	-Onboard VG: Integrated Graphics Controller, G200 (Renesas SH7757 BMC)	
	-Internal Storage: 2 x 300GB SAS2 15,000 RPM HDD 3.5"	
	-Expansion Slots: 1 PCI-Express 3.0 x16, 6 x PCI-E 3.0 x 8, All Low Profiles	
	-Onboard SCSI/SATA: LSI2108 SAS2 Add-On Card RAID 0, 1, 5, 6, 10 support	
	-Operating System: Optional Microsoft Windows Server	
	-Cooling System: 3 x 8cm Cooling Fan	
	-Onboard LAN: Dual Gigabit LAN	

Unit	ITEMS	Quantity
	-Peripheral Bays: Slim DVD Drive	
	-Drive Bays: 16 Hot-swap 2.5" SAS / SATA HDD trays (ready for PCI-E storage controller card)	
	-Power Supply: Redundant 740Watts Platinum Level	
	-Form Factor: 2U Rackmount	
	-Management: Remote server management with Intelligent Provisioning	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	
pc	<b>PERIMETER FIREWALL</b>	<b>1</b>
	-Brand New	
	-Must Accommodate 200-350 users	
	-Dual-WAN with load-balancing and 3G/4G failover brings resiliency and increased bandwidth	
	-WAN Port: 2 RJ-45 Gigabit Ethernet	
	-LAN Port: 4 RJ-45 Gigabit Ethernet	
	-Firewall: Stateful packet inspection, up to 980 Mbps throughput for TCP and UDP	
	-Quality of Service: Traffic Classes, WAN Queuing, WAN Policing, WAN Bandwidth Management, Assign detailed QoS (Class of Service (CoS)/Differentiated Services Code Point (DSCP)/policies) settings per application or end device	
	-Web Security: Dynamic web filtering: Cloud based, more than 80 categories, more than 450 million domains classified	
	-UTM features - Unified security features provide reliable and highly secure Internet connectivity with cloud application detection and policies.	
	-Secure connectivity: Flexible VPN functionality	
	-Client Identification: Identifies and categorizes clients dynamically. Assigns policies based on end device category and operating system	
	-IPS: IDS/IPS inspects network packets, logs and/or blocks a wide range of network attacks. It delivers increased network availability, faster remediation, and comprehensive threat protection. HTTP/FTP/SMTP/POP3/IMAP	
	-Antivirus: Protection from viruses, trojans, spyware, and identity theft by inspecting traffic going through the router. HTTP/FTP/SMTP/POP3/IMAP	
	-IPSec: IKEv1 and IKEv2 50 simultaneous connections (any combination of remote access and site-to-site), up to 650 Mbps throughput	
	-Layer 2 Tunneling Protocol (L2TP) over IPsec	
	-Generic Routing Encapsulation (GRE) over IPsec	
	-Point-to-Point Tunneling Protocol (PPTP): 25 connections, up to 100 Mbps throughput	
	-VPN pass-through: IPSec, PPTP, L2TP	
	-Management protocols: Web browser (HTTP/HTTPS), Simple Network Management Protocol (SNMP) v1, v2c, and v3, Representational State Transfer (REST), API NETCONF	
	-CPU: ARM-based architecture, dual core, hardware flow engine, 900 Mhz	
	-RAM; 1 GB DDR3 ; Flash; 256 MB	

	-1-Year minimum subscription on Anti-virus, Anti-Spyware, Anti-Spam, Intrusion Detection and Prevention Systems and Content Filtering	
	-Comprehensive training on installation, configuration, deployment of rule sets and system navigation;Warranty: 3 years on parts and services from date of acceptance and on-site service	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	
<b>pcs</b>	<b>UPS</b>	<b>3</b>
	-Brand New	
	-Tower/Rack Convertible with easy-shift LCD display	
	-Interfacc: 6x Universal Socket	
	-Capacity: 3KVA/2700W	
	-Input Voltage: 208 V / 220 V / 230 V / 240 Vac	
	-Input Frequency: 40 ~ 70 Hz (auto-sense)	
	-Bypass Voltage: -25% ~ +15% (settable)	
	-Output Voltage: 208 V / 220 V / 230 V / 240 Vac (settable via LCD)	
	-Output Frequency: 45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)	
	-Hot-swappable battery	
	-Battery: 8X12V/7Ah	
	-Recharge Time: Standard model: 90% capacity restored in 3 hours, Long time model: depend on the capacity of battery	
	-Efficiency: ≥ 92% (Mains mode), ≥ 87% (Battery mode), ≥ 97% (ECO mode)	
	-Protections: Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection	
	-Display: LCD + LED	
	-High frequency on-line double conversion technology	
	-Communications RS 232 (standard), USB / RS485 / dry contacts / SNMP (optional)	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	
<b>lot</b>	<b>CCTV(IP CAMERA)</b>	<b>1</b>
	Brand New	
	IP Camera	
	Indoor Dome Fixed Camera (9 pcs)	
	Outdoor Bullet Fixed Focal Network Camera (1pc)	
	· Image Sensor 1/3 progressive Scan CMOS	
	· Min.Illumination(lux):Color:0.07@f/1.2B/W:0 with IR	
	· Lens:2.8mm-4mm @f/2.0(4 mm option)	
	· BLC/WDR: Digital	
	· IR Range:30 meters	
	· Video Compression:H.264/MJPEG	
	· Max. Image Res(pixels):1920x1080	
	· Frame Rate(fps):25@1920x1080, 1280x960, 1280x720	
	· Multi-streaming: Dual	

	Network Video Recorder:	
	· Video Compression:H.264	
	· HDMI/VGA Output: 1920x1080/1920x1080	
	· IP Video Input: 16-ch IPC with integrated 16 port 802.3 af and at PoE switch	
	· USB:1 USB 2.0: 1 USB 3.0	
	· Internal SATA: 2 SATA Interfaces	
	Other Services/Labor must include:	
	· Must perform a site survey	
	· System design proposal and installation planning	
	· Installation and Configuring Service	
	· Must carry out a Test an Commission	
	· Scheduled Preventive Maintenance and servicing repair must be carried out by contractor's client assigned personnel	
	· Any on-site maintenance the client shall receive in writing email and documentation about the said activity with on-site assigned DepEd personnel signature	
	Warranty: 3 years on parts and services from date of acceptance and on-site service	
<b>pc</b>	<b>ACCESS POINT</b>	<b>1</b>
	-Brand New	
	-Standards: IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.3, 802.3u, and 802.3at	
	-Frequency: 2.4 GHz and 5 GHz (concurrent)	
	-MIMO: 3 x 3	
	-Built-in Antenna	
	-Antenna Gain: 1.7dBi @ 2.4G, 1.9dBi @ 5G	
	-Receiver Sensitivity: 802.11b @ 11Mbps: -85dBm, 802.11a/g @ 54Mbps: -70dBm, 802.11n @ HT20 MCS7/15: -65dBm, 802.11n @ HT40 MCS7/15: -62dBm, 802.11ac @ VHT MCS9/19: -51dBm	
	-PoE: 802.3af/802.3at	
	-Wall/Ceiling Mount	
	-Gigabit Ethernet	
	-Multiple SSIDs: 16	
	-VLAN Support	
	-Captive Portal	
	-Data Encryption: WEP, WPA, WPA2, 802.1X with RADIUS	
	-Features: Load balancing, Bandwidth control, Manual or automatic configuration	
	-Management: Web (http/https), SNMP	
	-Certification: FCC 47 CFR FCC Part 15, Subpart B, Class B; 47 CFR FCC Part 15, Subpart C; 47 CFR FCC Part 15, Subpart E	
	-Provide Knowledge Transfer/Training on the configuration of the device for end-users	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	

set	<b>GENSET</b>	<b>1</b>
	-Brand New	
	-Structure Mode: Silent Type; Fuel: Diesel; Cooling System: Air-cooled; Phase: Single Phase; Rated Frequency (Hz): 60Hz; Rotation Rated Speed (r/min): 3600; Rated Voltage (V): 220; Rated Output (kva): 5.0; Max. Output (kva): 6.0; Power Factor (cos): 1; Starting System: Electric Start / Recoil Start; Battery Ah: 12V/17AH-36AH; Protection System: Low Oil Alarm; Noise Level @7m: 72; Excitation Mode: Transistorized Self-excitation and constant voltage AVR; Overall Dimension LxWxH (cm): 90x51x68; Dry Weight (kg): 160; Complete with tools and accessories; Ready to use with manual and warranty	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	
pc	<b>AIR CONDITIONING UNIT</b>	<b>1</b>
	-Brand New	
	-Split Type	
	-Capacity: 2.5 HP	
	-2.5 HP, Premium Inverter Airconditioner	
	-Power Source(Φ/V/Hz): 1 / 220~240 / 60	
	-Power Consumption(Cooling, W): 2000 W	
	-Operating Current(Cooling, A): 8.8 A	
	-Net Weight (Indoor unit, kg): 13.3 kg; Net Weight (Outdoor unit, kg): 35.6 kg	
	-Refrigerant (Type): R32	
	-WindFree Cooling; AI Auto Cooling	
	-Air Direction Control (Up/Down): Auto	
	-Air Direction Control (Left/Right): Auto	
	-Air Flow Control Step (Cool/Fan): 5/4	
	-Air Purification: PM 1.0 Filter	
	-Motion Detect Sensor	
	-Auto Clean (Self Cleaning); Easy Filter Plus	
	-SmartThings App Support; WiFi Embedded	
	-Warranty: 1 Year Warranty on Parts & Service, 10 Year Warranty on Compressor	
	-Must have User Manual	
roll	<b>CAT6 UTP CABLE</b>	<b>1</b>
	-CAT6 Outdoor Cable; 305meters; 23 AWG bare annealed copper conductors, non-plenum, Polyolefin insulation, twisted pairs, central spline, foil shield, drain wire, PE jacket	
sets	<b>Network Storage(2 sets-CPU, Monitor, Mouse UPS, Speaker with OS)</b>	<b>2</b>
	-Brand new	
	-CPU: Inter Core i7, 5 GHz; Memory:8GB; VGA GcForce RTX 3080 HD:64TB;with RJ45LAN port;2x 1GbE with link aggregation support; USB 3.0port:x2; RAID type:1,5,6,10 with Global Hot Spare Support; Input Voltage/Frequency:100v to 240v, AC, 50/60Hz	
	-Monitor: 25" Organic Light Emitting Diode(OLED)	
	-Mouse - Wireless	
	-UPS: 3000VA	
	-Speaker: Bluetooth	
	-OS & Office Apps: Window 10 &MS Office 2019	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	

pc	<b>Load Balancer</b>	<b>1</b>
	-Brand New	
	-Standards: IEEE 802.3, IEEE802.3u, IEEE802.3ab; Protocols: TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DNS, PPTP, L2TP; Interface: 1 Gigabit WAN port, 3 Gigabit LAN/WAN ports, 1 Gigabit LAN port; Network Media: 10BASE-T: UTP category 3, 4, 5 cable (Max 100m), EIA/TIA-568 100Ω STP (Max 100m), 100BASE-TX: UTP category 5, 5e cable (Max 100m), EIA/TIA-568 100Ω STP (Max 100m), 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m); Flash: 32MB, DRAM: DDRIII 256MB; PERFORMANCE: Concurrent Session: 150K, NAT Throughput: 800Mbps, NAT(iMIX): 703Mbps, NAT(DHCP): 934Mbps, NAT(PPPoE): 868Mbps	
	-Warranty: 3 years on parts and services from date of acceptance and on-site service	
box	<b>RJ45</b>	<b>3</b>
	Pass Through for CAT6	
pcs	<b>RJ45 connector</b>	<b>50</b>
	8 pins for CAT 6	
pcs	<b>Grounding Rod</b>	<b>2</b>
	Galvanized; 5/8 x 21; with clamp	
pc	<b>Fire Extinguisher</b>	<b>1</b>
	Carbon Dioxide; 20lbs	
lot	<b>Engineering Works</b>	<b>1</b>
	Hauling, Delivery, Wiring, Installation and Testing	
	All accessories and works necessary to complete the installation and testing(including Aircon, CCTV and GenSet Installation)	
Pc.	<b>Extension Cord</b>	<b>5</b>
	2 universal outlets, 1.83 m, Flat cord #16/2, With switch and breaker/overload protection	
pcs	<b>End-point Protection Subscription</b>	<b>2</b>
	Defense for PC, Linux, Mac, Android, iOS; Mobile Threat Defense; Application, Web & Device Controls for PCs; Vulnerability Assessment, Behavior Detection, Exploit Prevention, Remediation Engine; Environment variable permissions and HIPS; Data export via Syslog; Kaspersky Sandbox and Kaspersky EDR Optimum integration; 15 Nodes per year	
	xx	
<b>ABC= Php1,000,000.00</b>		

2. The *Schools Division Office of Catanduanes* now invites bids for the above Procurement Project. Delivery of the Goods is required **thirty (30) calendar days**. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II Instruction to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary *pass/fail* criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184.
  - a. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective bidders may obtain further information from Schools Division Office of Catanduanes and inspect the Bidding Documents at the address given below during Monday to Friday from 8:00 AM to 5:00 PM.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **June 25, 2021 to July 15, 2021** from the given address and website below upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **One Thousand Pesos Only (Php1,000.00)**. The Procuring Entity shall allow the bidder to present proof of payment for the fees in person.
6. The Schools Division Office of Catanduanes will hold a Pre-bid Conference on **July 2, 2021 at 9:00 AM** at **SDO-Conference Hall-A** which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **July 15, 2021 at 9:00 AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **July 15, 2021 at 9:00 AM at Conference Hall-A** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Prior to Bid Opening, representative of bidders should present and submit to the BAC a **Special Power of Attorney** stating the detailed activities which he/she will perform relative to the bidding at hand.
11. The *Schools Division Office of Catanduanes* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

**MA. LUISA T. DELA ROSA**  
**Chairman, Bids and Awards Committee**  
**DepEd, Division Office, Virac, Catanduanes**  
**CP No. 09476099689**


  
**MA. LUISA T. DELA ROSA**  
**BAC Chairman**

## IMPROVEMENT/ UPGRADE OF SDO NETWORK INFRASTRUCTURE


### PROJECT SCHEDULE

NO.	ACTIVITY	DURATION (days)	START	END
1.	Pre-Procurement Conference	1	June 22, 2021	
2.	Invitation to Bid (Advertisement/ Posting)	7	June 25, 2021	July 1, 2021
3.	Issuance of Bidding Documents		June 25, 2021	July 15, 2021
4.	Pre-Bid Conference	1	July 2, 2021 at 9:00 AM at Conference Hall-A	
5.	Issuance of Bid Bulletin (if any)			
6.	Deadline of Submission and Receipt of Bids/Bid Opening	1	July 15, 2021 at 9:00 AM at Conference Hall-A	
7.	Bid Evaluation	1	July 16, 2021	
8.	Post-qualification	2	July 19-20, 2021	
9.	Approval of Resolution/ Issuance of Notice of Award	1	July 21, 2021	
10.	Contract Preparation and Signing	1	July 22, 2021	
11.	Approval of contract by higher authority	1	July 23, 2021	
12.	Issuance of Notice to Proceed	1	July 26, 2021	

  
MA. LUISA T. DELA ROSA  
BAC Chairman

  
MARY JEAN S. ROMERO  
BAC Vice-Chairman

  
NELSON T. SICIO  
Member

  
ROMEL G. PETAJEN  
Member

  
GINA L. CUSTODIO  
Member

  
MA. CIELO C. TUBALE  
Member

  
JEZRAHEL T. OMADTO  
Head-BAC Secretariat