



INVITATION TO BID

Supply and Delivery of Various Equipment for the Establishment of Science Centrum in Surigao del Norte

Bid Bulletin No: 2020-10-393

1. The DEPARTMENT OF SCIENCE AND TECHNOLOGY-CARAGA, through the General Appropriations Act 2020 intends to apply the sum of Two Million Five Hundred Thousand Pesos only (₱ 2,500,000.00) for the Supply and Delivery of Various Equipment for the Establishment of Science Centrum in Surigao del Norte to payments under the contract for PR # 2020-09-364. Bids received in excess of the ABC shall be automatically rejected at bid opening;
2. The **DEPARTMENT OF SCIENCE AND TECHNOLOGY-CARAGA** now invites bids for the following.

QTY / Unit	Particulars	ABC per Item	TOTAL ABC
2 units	A. LCD Projector	₱ 95,000.00	₱ 190,000.00
	Technical Specifications:		
	Short-Throw		
	3,400 Lumens (Colour and White Light Output		
	WXGA Resolution		
	Multi-PC projection		
	HDMI Connectivity		
	Screen Size: 53"-116"		
	Focal Length: 6.4mm		
	Network: Wired LAN		
	Lamp life: 5,000h/10,000h		
	Lamp Type: 215W UHE		
	FOB DOST-Caraga		
	1 year warranty, Vat Inclusive		
	Accessories: Bag, Remote Control		
2 units	B. Line of motion sensing input device	₱ 20,000.00	₱ 40,000.00
	Technical Specifications:		
	Depth Sensor Type: ToF		
	RGB Camera Reso: 1920x1080, 30fps		
	Infrared (IR) Camera Reso: 512x424x30fps		
	Field of view of RGB image: 84.1x53.8		
	Field of view of depth image:70x60		
	with Product Manual		
	FOB DOST-Caraga		
	1 year warranty, Vat Inclusive		
3 units	C. Digital Drawing Monitor Pad w/ pen	₱ 60,000.00	₱ 180,000.00
	Technical Specifications:		
	Technology: Patented electromagnetic resonance method		
	Active Area: 8.7in x 5.8in / 224mm x 148mm		

	Pen Pressure: 8192 Levels, both pen tip and eraser		
	Resolution (lpi): 5080		
	Reading Speed: 220 PPS		
	Data Communication Interface: USB		
	OS Support: Windows 7 or later, Mac OS		
	Express Keys: 8		
	Wireless Support		
	Tilt Function: +- 60 levels		
	Multi-Touch		
	Touch Ring with 4 customizable functions (Auto Scroll/Zoom, Cycle Layers, Brush Size and Canvas Rotation)		
	FOB DOST-Caraga		
	1 year warranty, Vat Inclusive		
1 unit	D. 3D Printer	₱ 550,000.00	₱ 550,000.00
	Technical Specifications:		
	Diameter: 2.85mm		
	Layer Thickness: 20-200 Microns		
	XYZ accuracy: 12.5x12.5x2.5 microns		
	Feeder system: Bowden		
	Print bed details: Heated, Removable, borosilicate glass		
	Display: LCD		
	Connectivity: Ethernet, USB Cable, WIFI		
	Print size metric: 197x215x200mm		
	Print Size: 7.8x8.5x7.9 in		
	Printer Type: Filament deposition		
	Assembly: Fully-assembled		
	Material System: Open material system		
	Extruder: Dual		
	Bed Leveling: Manual (with actived bed leveling)		
	Camera: Yes		
	Operating System: Windows, Mac, Linux		
	Dimension metric: 343x505x586mm		
	Dimension: 13.5 x19.9x23.1 in		
	Technology: FFF FDM		
	1 Year Warranty		
	Inside the box:		
	with free filament		
	3D printer Power Supply		
	USB cable		
	Toolbox		
	Calibration Card Sample Printout		
	PLA Filament: 2.85mm		
	With Software: CURA File types: STL/OBJ/DAE/AMF		
	FOB DOST-Caraga		
	Vat Inclusive		
1 unit	E. Ultimate 2.0 10-in-1 Robot Kit	₱ 48,000.00	₱ 48,000.00
	Technical Specifications:		
	Microcontroller: ATMEGA2560-16AU		
	Input voltage: 6V-12V DC		
	Operating Voltage: 5V DC		

	I/O Pins: 43		
	Serial Ports: 3		
	Analog Input Pins: 15		
	I2C Interface : 1		
	SPI Interface: 1		
	Parts Lists:		
	4 x Beam0824-016		
	5 x Beam0824 - 032		
	3 x Beam0824-064		
	2 x Beam0824-128		
	1 x Slide Beam0824-176		
	2 x Slide Beam0824-192		
	2 x Beam0808-024		
	2 x Plate0324-056		
	3 x Plate0324-088		
	4 x Beam0412-076		
	4 x Beam0412-092		
	4 x Beam0412-140		
	6 x Beam0412-188		
	2 x Beam0412-220		
	2 x Bracket P3		
	3 x 25mm DC Motor Bracket		
	4 x Bracket 3x3		
	2 x Plate 3x6		
	1 x Plate 7x9-B		
	6 x Shaft Connector 4mm		
	4 x Stiffener1616-08-M4		
	1 x Plane Bearing Trunable D34x24mm		
	1 x Quick Release Plate		
	2 x 25mm Motor Bracket-72T		
	2 x MegaPi Acrylic Bracket		
	4 x Rubber Blanket		
	4 x Tire 90T B		
	6 x Plastic Timing Pulley 90T		
	3 x Plastic Gear 8T		
	3 x Plastic Gear 56T		
	2 x Plastic Gear 72T		
	1 x 360 degress Mobile Phone Bracket		
	2 x Track 80x139mm		
	1 x Battery Holder 6AA		
	12 x Flange Copper Sleeve 4x8x4mm		
	12 x Shaft Collar 4mm		
	6 x Threaded Shaft 4 x 39mm		
	2 x D shaft D4x50mm		
	2 x Shaft D4x88mm		
	1x D shaft D4x160mm		
	4 x Brass Stud M4 x 16		
	4 x Plastic Ring 4x7x2		
	8 x Plastic Ring 4x7x3		
	2 x Plastic Ring 4x7x10		
	20 x Plastic Rivet 4060		
	20 x Plastic Rivet 4100		
	20 x Plastic Rivet 4120		
	12 x Headless Set Screw M3 x 5		

	8 x Headless Set screw M3 x 8		
	6 x Countersunk Screw M3 x 8		
	4 x Countersunk Screw M3x10		
	50 x Screw M4x8		
	46 x Screw M4x14		
	10 x Screw M4 x 16		
	4 x Screw M4 x 22		
	4 x Screw M4 x 30		
	47 x Nut M4		
	10 x Nylon Lock Nut M4		
	1 x 25mm DC encoder Motor 9V/86RPM		
	2 x 25mm DC encoder Motor 9V/185RPM		
	1 x Makeblock Robot Gripper		
	3 x 25mm DC Encoder Motor Cable		
	1 x MegaPi		
	4 x MegaPi Encoder/DC motor Driver		
	1 x MegaPi shield for RJ25		
	1 x Bluetooth Module		
	1 x Me Ultrasonic Sensor		
	1 x Me Line Follower		
	1 x Me Shutter		
	1 x Me-3-Axis Accelorometer and Gyro Sensor		
	1 x Me Adapter		
	1 x USB cable B-1.3m		
	2 x 6P6C RJ25 Cable 20cm		
	1 x 6P6C RJ25 Cable 35cm		
	10 x Rubber Bank		
	10 x Nylon Cable Tie 1.9x100		
	1 x Cross&2.5mm HEX Screwdriver		
	1 x Small Fourway Socket Wrench		
	1 x Wrench 5mm & 7mm		
	1 x HEX key 1.5mm		
	1 Year Warranty, VAT Inclusive		
	FOB DOST-Caraga		
1 unit	F. Crawler-mounted, all terrain robot	₱ 56,000.00	₱ 56,000.00
	Technical Specifications:		
	Includes all Interlocking plastic bricks for crawler-mounted, all terrain robot		
	14 x decorative stickers		
	1 x print building instruction for crawler-mounted, all terrain robot		
	Programmable Brick		
	Color Sensor		
	Touch Sensor		
	Remote Infrared Beacon		
	IR Sensor		
	2x Large Motors		
	Medium Motor		
	Includes Visual programming environment computer Software		
	Includes Programmer App		
	Includes Robot Commander App		
	1 Year Warranty, VAT Inclusive		
	FOB DOST-Caraga		

3 units	G. Floor Standing Kiosk with Touch Panel	₱ 135,000.00	₱ 405,000.00
	Technical Specifications:		
	55" LCD with LED Backlight		
	- FHD 1080p Resolution; Tempered Glass; IR Touch 10 points		
	- Android OS 6.0 or higher, 4GB RAM, 16GB Flash Storage		
	- Speaker 5W * 2, USB 2.0 *2, Audio Out*1, RJ45*1, WiFi*1		
	- Embedded WiFi Module and 4 removable wheels		
	*1 warranty		
	*VAT inclusive, FOB DOST-Caraga		
1 unit	H. Classroom/Seminar Setup Projector	₱ 86,000.00	₱ 86,000.00
	Technical Specifications:		
	Screen Size (Projected Distance): Zoom Wide: 53" - 116" [0.54 - 1.22 m] Zoom Tele: 39" - 86" [0.54 - 1.22 m]		
	Throw ration: 0.48 (zoom: wide); 0.65 (zoom: tele)		
	Lens Focal Length: 6.4mm		
	3,400 Lumens (Colour and White Light Output)		
	Lamp Life: 5,000h / 10,000h		
	Lamp Type: 215 W UHE		
	Keystone Correction Vertical: -15 to +15 degrees Horizontal: -15 to +15 degrees		
	USB Plug n Play		
	Input: Video, Computer, USB Type A & B (2.0), HDMI, VGA		
	Warranty: 1yr Lamp and projector with 1.8m VGA or HDMI cable, power cable, remote control, batteries and manual, with universal plug-socket converter		
	*VAT inclusive		
	*FOB DOST-Caraga		
1 unit	I. SMART Board interactive flat panel	₱ 525,000.00	₱ 525,000.00
	Technical Specifications:		
	65" 4K ultra-high-definition LED display		
	Equipped with SMART Learning Suite software		
	Dimension: 69 1/4" × 49 5/8" × 11 7/8" (175.8 cm × 126.1 cm × 30.3 cm)		
	Weight: 181 lb. (82.1 kg)		
	Multitouch Technology: 8 touches ²		
	Object Awareness: Behavior adjusts automatically to the tool or object being used, whether it's a pen, finger, eraser or palm.		
	Pen ID: Two people can write independently and simultaneously, using different colored ink.		
	Display Type: LED		
	Aspect Ratio: 16:9		
	Optimal Resolution: 3840 × 2160 at 30 Hz (HDMI®) or 60 Hz (DisplayPort)		
	Horizontal Frequency: 26.97–75.0 kHz		
	Vertical Frequency: 23.9–60.32 Hz		
	Contrast Ratio: 1200:1		
	Pixel Pitch : 0.372 mm × 0.372 mm		
	With Bluetooth		

	Capture Options: Establish a Bluetooth wireless connection with a supported mobile device (see below) by scanning the interactive flat panel's unique QR code		
	Included Cables and Accessories: iQ appliance 8' (2.4 m) country-specific power cable 16' 5" (5 m) USB cable Pen (x2)		
	1-year warranty		
	*VAT Inclusive		
	*FOB DOST-Caraga		
	*Accessories: AVR		
2 units	J. All-in-One PC	₱ 75,000.00	₱ 150,000.00
	Technical Specifications:		
	Processor: core i5-1035GI (1.0GHZ base up to 3.6ghz)		
	Chipset: 8460		
	Memory: 8GB DDR4-3200		
	Hard Drive: 1TB 7200 rpm + SSD 512 GB 2280 PCI-e		
	LCD: 23.8" diagonal FHD (1920x1080), Touch,IPS		
	LAN: Integrated 10/100/100 GbE LAN		
	WLAN: 802.11ac(2x2)WLAN & Bluetooth 4.2Card		
	Bluetooth capable		
	Audio: 2x2w internal speaker		
	Warranty: 1 year Warranty		
	OS: Microsoft Windows 10 license		
	*VAT Inclusive, FOB DOST-Caraga		
2 units	K. SMART TV Signage	₱ 135,000.00	₱ 270,000.00
	Technical Specifications:		
	Display: 75inch		
	Resolution: 3840x2160(UHD)		
	Brightness (cd/m): 315		
	Digital: ATSC/Clear QAM		
	Video: HDR (10 Pro /HLG)		
	Audio Output:10W + 10W		
	Speaker System: 2.0ch		
	Set Side: HDMI In 2(2.0), USB (2.0)		
	Set Rear: HDMI In (HDCP) 2.0, RF In (tuner), AV In (Phone Jack Type), Digital Audio Out (Optical), RS-232C(D-Sub 9pin) (Control & Service), RJ45 (Usage Purpose) 2 (Ethernet, SNMP), External Speaker Out(3.5mm phone jack) (Spk-out 1, 1W, 8), Debug (Phone Jack Type)		
	Vesa: 600 x 400		
	W x H x D / Weight (with stand): 1,693 x 1,048 x 345 / 35.4		
	W x H x D / Weight (without stand): 1,693 x 978 x 88.8 / 34.6		
	W x H x D / Weight (Shipping): 1,839 x 1,116 x 231 / 45.7		
	Voltage, Hz: 120V, 50/60Hz		
	Hospitality: Public Display Mode, Lock mode (Limited), Welcome Screen (Splash Image), Insert Image, One Channel Map, IP Channel Manager, External Speaker Out (Int /Fixed, 3.5mm, Stereo, Single ended Type(GND,L+,R+), 1W with 8), V-Lan Tag, RJP (remote jack pack)		

	Compatibility (Teleadapt/Guestlink (HDMI CEC)), Moving Picture Playback (SD/HD/Plus HD), Auto Off / Sleep Timer, Smart Energy Saving, Motion Eye Care		
	*1 year warranty		
	*VAT Inclusive, FOB DOST Caraga		
	GRAND TOTAL		₱ 2,500,000.00

Delivery of the Goods is required **within sixty (60) days upon receipt of Notice to Proceed**. Bidders should have completed, within **two (2) 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. Instructions to Bidders.


3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”. Bidding is open to all interested bidders, whether local or foreign, subject to the conditions for eligibility provided in the IRR of RA 9184.
4. Interested bidders may obtain further information from **DEPARTMENT OF SCIENCE AND TECHNOLOGY-CARAGA** and inspect the Bidding Documents at the address given below during **8:00 AM to 5:00 PM**
5. A complete set of Bidding Documents may be acquired by interested Bidders on **November 4 to November 24, 2020** from the address below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **₱ 2,500.00**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The **DEPARTMENT OF SCIENCE AND TECHNOLOGY-CARAGA** will hold a Pre-Bid Conference¹ through videoconferencing on **November 12, 2020 @ 10:30 AM** at **DOST Caraga Conference Room, CSU Campus, Ampayon, Butuan City**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the address below on or before **10:00 AM of November 24, 2020**. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

Bid opening shall be on **November 24, 2020 at 10:30 AM** at **DOST Caraga Conference Room, CSU Campus, Ampayon, Butuan City**. Bids will be opened through video conferencing. The personal appearance of the bidders’ representatives who choose to attend the bid opening is highly discouraged for safety and health protocols. Late bids shall not be accepted.

8. The **DEPARTMENT OF SCIENCE AND TECHNOLOGY-CARAGA** 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 Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
9. For further information, please refer to:
BAC Secretariat
DOST CARAGA, CSU CAMPUS, AMPAYON BUTUAN CITY, 8600
Tel.: 085 342-5345, Fax: 085 342-5684
Email: bacsec.dost13@gmail.com


NOEL M. AJOC
 Chairperson, BAC

¹May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000.00) where the Procuring Entity may not hold Pre-Bid Conference.