

Republic of the Philippines
PHILIPPINE SCIENCE HIGH SCHOOL-BICOL REGION CAMPUS
Tagongtong, Goa, Camarines Sur

BID BULLETIN NO.2

Procurement of Construction of Motorpool and Parking Area (Design and Build)

January 5, 2021

This Supplemental /Bid Bulletin No. 1 is issued to amend information in the bid documents as regards bid opening:

1. Due to the extended disinfection activities in the campus from January 4-8, 2021, BAC has decided to re-schedule for the second time the bid opening for the above-cited project to **January 11, 2021 at 1:30PM.**
2. This notice of postponement is being issued in accordance with Section 29 of Revised IRR of RA 9184 and not for the purposes of delay.

For the guidance and information of all concerned.



SEVEDEO J. MALATE
Chairperson, BAC

TECHNICAL SPECIFICATIONS FOR TECHNICAL AND SCIENTIFIC EQUIPMENT LOTS 2,3,and 4

2	Robotics and Engineering Equipment	11	Educational Robotics Kit	
				Main controller brick – Bluetooth and WIFI enabled with data logging; with at least 4 input and output ports
				Rechargeable battery with charger
				Interactive Servo motors (at least two with built-in rotation motors)
				Sensors (ultrasonic, touch, gyro, color)
				Building bricks and other elements for creating a vast variety of models with building instructions and software
		12	Microcontroller Kits, peripherals, sensors	
				Arduino official starter kit
				Powerboost 500 shield - rechargeable 5v Power Shield ADAFRUIT
				Battery lithium ion 3.7v 2000mah
				Accelerometer magnetometer gyroscope temp 9-dof breakout board lsm9ds0
				Battery 9v dc jack
				9v Battery
				Relay module 10a 2 channel
				Xbee shield
				Official raspberry pi power supply
				Gprs gsm sim800c shield for arduino
				Gps ultimate breakout 66 channel 10 hz updates version 3 adafruit
				Rs pro multimeter kit
2	FABLAB/AdTech Tools and Equipment	13	Jigsaw	Capacity: Wood 65mm (2-5/8") Capacity: Mild Steel Plate 6mm (1/4") Capacity: Min. Cutting Radius 25mm (1") Base Tilt Angle 45° Right/Left Power Input 400W Length of Stroke 18mm (45/64") No-Load Speed(stroke) 0-3,000/min. Overall Length 197mm (7-3/4") Weight 1.5kg (4.2 lbs.)
		14	Planer	Continuous rating Input: 750W Planing width: 82mm (3-1/4") Planing depth: 3mm (1/8") No load speed (rpm): 18,000

				<p>Dimensions (L x W x H): 390x175x140mm Net Weight: 4.9kg (10.8lbs) Power supply cord: 2.0m (6.6ft)</p>																		
		15	Table Saw	<p>Continuous rating Input: 1,500W Max cutting capacity: at 0 degrees : 91mm (3-9/16") at 45 degrees : 63mm (2-1/2") Blade diameter: 255mm (10") No load speed (rpm): 4,300 Dimensions (L x W x H): 726x984x333mm Net Weight: 34.1kg (75.2lbs)</p>																		
		16	Vacuum Cleaner	<table> <tr> <td>Rated power input</td> <td>1,250 W</td> </tr> <tr> <td>Weight</td> <td>10 kg</td> </tr> <tr> <td>Max Vacuum Pressure (Turbine)</td> <td>200 mbar</td> </tr> <tr> <td>Max volume rate</td> <td>63 l/sec</td> </tr> <tr> <td>Dust Class</td> <td>L</td> </tr> <tr> <td>Container volume gross</td> <td>25 liters</td> </tr> <tr> <td></td> <td>480 x 380 x</td> </tr> <tr> <td>Tool dimensions (LxWxH)</td> <td>453mm</td> </tr> <tr> <td>Container volume net</td> <td>21 L</td> </tr> </table>	Rated power input	1,250 W	Weight	10 kg	Max Vacuum Pressure (Turbine)	200 mbar	Max volume rate	63 l/sec	Dust Class	L	Container volume gross	25 liters		480 x 380 x	Tool dimensions (LxWxH)	453mm	Container volume net	21 L
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		17	Portable Belt Sander	<table> <tr> <td>Rated Power Input(W)</td> <td>1200</td> </tr> <tr> <td>Belt Speed(m/min)</td> <td>500</td> </tr> <tr> <td>Belt Size(mm)</td> <td>100 x 610</td> </tr> <tr> <td>Net Weight(kg)</td> <td>5.8</td> </tr> </table>	Rated Power Input(W)	1200	Belt Speed(m/min)	500	Belt Size(mm)	100 x 610	Net Weight(kg)	5.8										
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		18	Stationary Belt Sander	<p>Power: 375 Watts Belt Size: 915 x 102mm Disc Size: 150mm (6") Voltage: 220V / 60hz</p>																		
		19	Assorted Tools	<p>Claw Hammer: Wooden Handle Ball Pein hammer: Wooden Handle File set for rotary tool: 10pcs Set Cross Cut Saw: Handle offers a square/mitre feature with 45° and 90° angles Hack Saw: Large, comfortable tension knob for quick & easy blade change Steel Ruler 30 cm: Corner Style: rounded Steel Ruler 1 meter: Material Type: Steel Drill bits set: for wood and metal Jigsaw blade set: for wood and metal Grinder disc set: for wood and metal Mallet: tough rubber head molded to a wood handle</p>																		
		20	Miter Saw	<p>Thumb actuated miter stops for quick and easy adjustment Soft Grip Large table Equipped with chip deflector</p>																		

				<p>Gloves Size Range: 36-46 COTTON GLOVES WITH LATEX</p> <p>Respirator Advanced silicone material Provides at least 95% filtration efficiency</p> <p>Welding Apron Leather with Sleeves</p> <p>Welding Goggles Wear with head strap or as a spectacle. With Rubber Nose Cushion for comfort</p> <p>Fire Extinguisher 10lbs capacity Dry chemical A.B.C. powder type Non - toxic Non - conducting and Non - corrosive chemicals Portable Type ISO Certified</p>
		29	Jointer	<p>1500 w (2Hp) 230v 60Hz Blade width 8" (203mm) 1/2" (12.7mm max) Cutting depth 1/2" (12.7mm max) Rabbeting cap max) Speed 4400 rpm 1315 x 395 Table (LxW) mm Height from floor 805mm Fence 875 x 98mm Tilt in and out 45°</p>
		30	Workbench	<p>Adjustable height - dual height Durable steel frame with anti-slip rubber feet Mobile - easy storage and transport and folds flat Dual clamping cranks increase clamping force and versatility Heavyweight steel construction allows support of 250kg Vice Jaw opening: 0 to 136 mm Vice jaw length: 740 mm</p>
		31	Thickness Planer	<p>Continuous rating Input: 1,650W Cutting width: 304mm (12") Cutting depth: Cutting width 0-150 mm : 3mm (1/8") Cutting width 150-240 mm : 1.5mm (1/16") Feed rate/min.: 8.5m (27.9ft) Table size (W x L): 304 x 771mm (12" x 30-3/8") No load speed (rpm): 8,500</p>
		32	Sewing Machines	<p>600 stitches including letters for any fabric Stitch sequencing with memory Consistent buttonholes with 13 one-step buttonhole styles</p>

				<p>Max. drilling diameter in masonry 10 mm</p> <p>Screw diameter</p> <p>Max. screw diameter 8 mm</p> <p>Integrated LED for lighting up work area</p> <p>Forward / Reverse rotation</p>
		35	Portable/Battery Powered Drill Driver	<p>Capacity: Machine screw : M4 - M8 (5/32" - 5/16")</p> <p>Standard bolt : M5 - M14 (3/16" - 9/16")</p> <p>High tensile bolt : M5 - M12 (3/16" - 1/2")</p> <p>Coarse thread (in length) : 22 - 125mm (7/8" - 4-7/8")</p> <p>Driving shank (Hex): 6.35mm (1/4")</p> <p>Impacts per minute (ipm): 0-3,200</p> <p>No load speed (rpm): 0-2,300</p> <p>Max. fastening torque: 150N.m (1,330in.lbs)</p> <p>Dimensions (L x W x H): 145x79x235mm (5-3/4"x3-1/8"x9-1/4")</p> <p>Net Weight: 1.3kg (2.9lbs)</p>
		36	Digital Oscilloscope	<p>Number of Channels 2</p> <p>Bandwidth 200MHz</p> <p>Oscilloscope Type Digital Storage</p> <p>Power Source Mains</p> <p>Display Type TFT LCD</p> <p>Minimum Vertical Sensitivity 1mV/div</p> <p>Maximum Vertical Sensitivity 10V/div</p> <p>Minimum Time Base 1ns/div</p> <p>Screen Size 8in</p> <p>Sample Rate Random 2 GSa/s, 100 GSa/s</p> <p>Rise Time 1.75ns</p> <p>Safety Category</p> <p>Safety Category Voltage 300V</p> <p>Vertical Resolution 8 bit</p> <p>Model Number p IDS2202A</p> <p>Plug Type Europe, UK</p> <p>Safety Category Level CAT I, CAT II</p>
		37	Digital Signal Generator	<p>Maximum Frequency Range 6GHz</p> <p>Sinewave</p> <p>Minimum Frequency Range 950kHz</p> <p>Sinewave</p> <p>Minimum Frequency Range 950 kHz</p> <p>Square Pulse and Arbitrary Waveform</p> <p>Digital Frequency Yes</p> <p>Digital Amplitude and Offset Yes</p> <p>Internal and External Yes</p> <p>Amplitude Modulation</p> <p>FM Modulation Yes</p> <p>Time Base Accuracy <math>\pm 0.5\text{ppm}</math></p> <p>Input Impedance 50 Ω</p>

				<p>Weight 5.4kg</p> <p>Frequency Range Square Pulse and Arbitrary 950 kHz → 6 GHz</p> <p>Waveform</p> <p>Minimum Operating Temperature +5°C</p> <p>Attenuation -130dB</p> <p>Interface Type Ethernet, GPIB, RS232, USB</p> <p>Dimensions 347 x 216 x 114mm</p> <p>Maximum Operating Temperature +40°C</p> <p>Width 216mm</p> <p>Length 347mm</p> <p>Model Number p TSG4106A</p> <p>Output Impedance 50Ω</p>
		38	Heat Gun	<p>Rated power input 2,000 W</p> <p>Weight without cable 0.9 kg</p> <p>Working temperature 50 - 630 °C</p> <p>Airflow 150 - 500 l/min</p> <p>Infinitely variable temperature control</p>
		39	Soldering Stations	<p>Tasks Supported Soldering</p> <p>Wattage 700W</p> <p>Input Voltage 220 → 240V</p> <p>Soldering Tip Temperature +480°C</p> <p>Number of Outputs 2</p> <p>Display Type LED</p> <p>1 x hot air gun</p> <p>1 x soldering iron</p> <p>1 x stand for soldering iron</p> <p>3 x nozzles</p>
		40	Soldering Helping Hand	<p>Main power supply 100 - 240 V/AC, 5 V/DC, 600 mA</p> <p>16 LEDs lighting</p> <p>360° rotating neck and bendable arms</p> <p>3.5 inch 2X Illuminated Helping Hand Magnifying Glass Station with 4X Auxiliary Lens</p> <p>2 fully adjustable helping hands , with clamp and alligator clips</p> <p>iron holder, and tray</p>
		41	Electronics Components	<p>Breadboards Branded</p> <p>#24 Solid Wire Branded</p> <p>Soldering Lead Branded</p> <p>Transistor, resistors, trimpots Branded</p> <p>ldr, etc Branded</p>

				Small Side Cutters Branded Small Half-round Nose Pliers Branded Wire Strippers Branded Soldering Iron Branded Paper Cutters Branded Desoldering Pumps Branded Small Flat Screw Drivers Branded Small Philip Screw Drivers Branded Multimeters Branded
3	Musical Instruments	43	Amplifier	
				Stereo Mode (both channels driven) 8Ω / FTC 20 Hz - 20 kHz / 0.1% THD 1050 W 8Ω / EIA 1 kHz / 0.1% THD 1100 W 4Ω / FTC 20 Hz - 20 kHz / 0.1% THD 1600 W 4Ω / EIA 1 kHz / 0.1% THD 1800 W 2Ω / FTC 20 Hz - 20 kHz / 1% THD 2000 W 2Ω / EIA 1 kHz / 1% THD 2500 W
				Bridge Mono Mode 8Ω / FTC 20 Hz - 20 kHz / 0.1% THD 3200 W 8Ω / EIA 1 kHz / 0.1% THD 3600 W 4Ω / EIA 1 kHz / 1% THD 5000 W Signal to Noise (20 Hz - 20 kHz) 8Ω > -100 dB Distortion (SMPTE-IM) < 0.02% Input Sensitivity at 8Ω 1.42V (+5.3 dBu) Voltage Gain 64x (36 dB) Output Circuitry Class H, 3-tier
				Power Requirements Typical, 1/8 power pink noise at 4Ω* 13.9 A Severe, 1/3 power pink noise at 4Ω* 26.9 A Supplied Plug Type, 100/120V NEMA 5-20 Supplied Plug Type, 230V CEE7/7
				Weight Net 75 lbs (33.1 kg) Shipping 87 lbs (37.2 kg)
				Distortion (typical) 20 Hz - 20 kHz: 10 dB below rated power < 0.02% THD / 4Ω and 8Ω 1.0 kHz and below: full rated power < 0.02% THD / 4Ω and 8Ω
				Frequency Response 20 Hz - 20 kHz: +0/-1 dB -3 dB points: 5 Hz and 50 kHz (LF filter bypassed / 8Ω)

				Damping Factor (1 kHz and below) > 250 at 8Ω
				Input Impedance 10k ohms unbalanced / 20k ohms balanced
				Input Clipping 6.4 Vrms (+18 dBu)
				Cooling Continuously variable speed back-to-front air flow
				Connectors (each channel) Input: Active balanced / 3-pin Euro style detachable terminal block a XLR (pin 2+)
				Controls Front: AC switch / Ch. 1 & 2 gain knob Rear: 10-position DIP switch
				Indicators Power-on: Green LED / Signal: Yellow (1 per channel) / Clip: Red LED (1 per channel) Protect: Red LED Power-on: Green LED / Signal: Yellow (1 per channel) / Clip: Red LED (1 per channel) Protect: Red LED
				Amplifier Protection Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads
				Load Protection Turn-on/off muting / AC coupling (850, 1450) / Triac crowbar (1850HD, 2450, 4050HD, 5050) on each channel Turn-on/off muting / AC coupling (850, 1450) / Triac crowbar (1850HD, 2450, 4050HD, 5050) on each channel
				Dimensions 5.25" (13.3 cm) tall / 3 rack spaces 5.25" (13.3 cm) tall / 3 rack spaces
				Power Requirements 100, 120, 230 VAC, 50 - 60 Hz (factory configured) 100, 120, 230 VAC, 50 - 60 Hz (factory configured)
		44	Bass Guitar	
				General Construction: Bolt-on Scale Length: 25-1/2" (648.0mm)
				Body: Body Materials: Alder Body Finish: Polyester
				Neck: Neck Materials: Maple Neck Finish: Satin Finish Fingerboard Materials: Rosewood or Laurel Fingerboard Radius: 13-3/4" (350mm)

				<p>Fret wire: Medium Number of frets: 24 Nut materials: Locking Nut Neck Width @ 0 Fret / 12th Fret:43.0 / 52.5 mm Thickness @1st Fret / 12th Fret:19.0 / 21.7 mm</p>
				<p>Electronics: Neck Pickup: Humbucker/Ceramic Middle Pickup: - Bridge Pickup: Humbucker/Ceramic Controls: Master Volume, Master Tone Pickup Switch: 3-Position Lever Switch</p>
				<p>Hardware: Bridge :Locking Tremolo Tremolo Arm: Φ6(Slot-in) String spacing: 10.8mm Tailpiece: - Tuning Machines: Die-Cast Pickguard: -</p>
				<p>Others: String gauge: D'Addario EXL120 / 0.009-0.042 Case: Gig Bag</p>
		45	Digital Sound Mixer	
				<p>Microphone input: Electronically balanced Frequency Response to direct Output: 20Hz~100KHz at 0dBu ±1.5dB Frequency Response to Main Output(48K): 20Hz~20KHz at 0dBu ±1.5dB Frequency Response to Main Output(96K): 20Hz~20KHz at 0dBu ±1.5dB</p>
				<p>Distortion(THD&N) to direct Output: <0.0005% at 0dBu 1KHz Distortion(THD&N) to Main Output(48K): <0.01% at 0dBu 1KHz Distortion(THD&N) to Main Output(96K): <0.01% at 0dBu 1KHz</p>
				<p>SNR(Signal to Noise Ratio): 107dB Maximum Input Level: +22dBu Phantom Power(+/-3V): +48VDC Line input: Unbalanced</p>
				<p>Frequency Response to direct Output: 20Hz~100KHz at 0dBu ±1.5dB Frequency Response to Main Output(48K): 20Hz~20KHz at 0dBu ±1.5dB Frequency Response to Main Output(96K): 20Hz~20KHz at 0dBu ±1.5dB Distortion(THD&N) to direct Output: <0.0005% at 0dBu 1KHz Distortion(THD&N) to Main Output(48K): <0.01% at 0dBu 1KHz Distortion(THD&N) to Main Output(96K): <0.01% at 0dBu 1KHz Gain: -15dBu~+35dBu Maximum Input Level(Gain at 0dBu): +20dBu AUX1~2 input: Balanced(2 stereo pair)</p>

				<p>Frequency Response to Main Output(48K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Frequency Response to Main Output(96K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Distortion(THD&N) to Main Output(48K): <0.01% at 0dBu 1KHz</p> <p>Distortion(THD&N) to Main Output(96K): <0.01% at 0dBu 1KHz</p> <p>Gain: -8 to +10dBu</p> <p>Maximum Input Level: +22dBu</p>
				<p>Tape L/R input:</p> <p>Frequency Response to Main Output(48K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Frequency Response to Main Output(96K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Distortion(THD&N) to Main Output(48K): <0.01% at 0dBu 1KHz</p> <p>Distortion(THD&N) to Main Output(96K): <0.01% at 0dBu 1KHz</p> <p>Gain: -8 to +10dBu</p> <p>Maximum Input Level: +22dBu</p>
				<p>Talkback MIC:</p> <p>Frequency Response to Main Output(48K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Frequency Response to Main Output(96K): 20Hz~20KHz at +4dBu ±1.5dB</p> <p>Distortion(THD&N) to Main Output(48K): <0.01% at 0dBu 1KHz</p> <p>Distortion(THD&N) to Main Output(96K): <0.01% at 0dBu 1KHz</p> <p>Gain: -8 to +10dBu</p> <p>Phantom Power(+/-3V): +48VDC</p>
				<p>Main outputs:</p> <p>Maximum Output Level: +21dBu</p>
				<p>AUX1~8 Outputs:</p> <p>Maximum Output Level: +21dBu</p>
				<p>SUB1~4 Outputs:</p> <p>Maximum Output Level: +21dBu</p>
				<p>Tape Outputs :</p> <p>Maximum Output Level: +16dBu</p>
				<p>Control Room Outputs:</p> <p>Maximum Output Level: +20dBu</p>
				<p>System Crosstalk:</p> <p>Input to Output(at +4dBu 1KHz): -83dBu</p> <p>Adjacent Channels(at +4dBu 1KHz): -82dBu</p> <p>Noise(Bus noise): -85dBu</p>
				<p>Noise Gate:</p> <p>Threshold Range: -84dBu - 0dB</p>

				Attack time: 0.5mS ~ 200mS Release time: 5mS~2S
				Compressor: Threshold Range: -30dBu - +20dB Attack time: 10mS ~ 150mS Release time: 10mS~1S Ratio: 1:1 to 24:1 Gain: 0dBu - +24dB
				EQ: Low (LowPass or LowShelf): 21Hz~19.2KHz +/- 24dB Low Mid: 21Hz~19.2KHz +/- 24dB High Mid: 21Hz~19.2KHz +/- 24dB High(HighPass or HighShelf): 21Hz~19.2KHz +/- 24dB
				Digital Audio: ADC Dynamic Range: 114dB DAC Dynamic Range: 114dB Internal Processor: 32-bit , floating point ADC,DAC bit depth: 24bit
				Impedances: Microphone input: 1.4KO Channel Insert return: 2.5KO All other inputs: 10KO or greater Tape out: 1KO All other output: 1200
		46	Electric Drumset	
				Kit configuration Drum sound module: TD-17 x 1 Snare: PDX-12 x 1 Tom: PDX-8 x 3 Hi-Hat: CY-5 x 1 Hi-Hat control pedal: FD-9 x 1 Crash: CY-8 x 1 Ride: CY-8 x 1 Kick: KD-10 x 1 Drum Stand
				Extra trigger input jack 2 (CRASH 2, AUX)
				Accessories Sound module mount AC adaptor Special connection cable Drum key Knob bolt (for PDX-12) Setup guide Owner's manuals

For the information and guidance of all concerned.

A handwritten signature in black ink, appearing to read 'SEVEDEO J. MALATE', written over a circular stamp or mark.

SEVEDEO J. MALATE

Chairman, Bids and Awards Committee