PhilGEPS
Philippine Government Electronic Procurement System

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Procurement Oppurtunities

Bid Notice Abstract

Request for Quotation (RFQ)

Reference Number	7796679
Procuring Entity	PHILIPPINE RICE RESEARCH INSTITUTE
Title	Procurement of Electronic parts and supplies for the development of the robotic seeder
Area of Delivery	Metro Manila,Nueva Ecija

Solicitation Number:	2021-06-1752	**Status**	**Pending**
Trade Agreement:	Implementing Rules and Regulations		
Procurement Mode:	Negotiated Procurement - Small Value Procurement (Sec. 53.9)	**Associated Components**	1
Classification:	Goods	**Bid Supplements**	0
Category:	Electronic Parts and Components		
Approved Budget for the Contract:	PHP 127,200.00	**Document Request List**	0
Delivery Period:	30 Day/s		
Client Agency:		**Date Published**	26/06/2021
Contact Person:	Abegail Tirante Donayre Admin Officer V Maligaya Science City of Muñoz Nueva Ecija Philippines 3119 63-44-4560650 63-44-4560650 ppmu.pmd@gmail.com	**Last Updated / Time**	25/06/2021 09:16 AM
		Closing Date / Time	29/06/2021 17:00 PM

Description

Item No. Quantity Unit Item and Description
1 2 piece " High Power DC Gear Motor
Type: Brushed DC
Power: 1000 Watts
Voltage: 48 Volts DC
Speed Reduction: Planetary Gear
Speed: 500 rpm"
2 4 piece Brushed DC Motor Driver Module Operating Voltage: DC 7V to 58V Maximum Motor Current: 25A
continuous, 60A peak 5V ouput for the host controller (250mA max) PWM/DIR Inputs compatible with 1.8V, 3.3V, 5V,
12V and 24V logic (Arduino, Raspberry Pi, PLC, etc) PWM frequency up to 40kHz (Output frequency is fixed at 16kHz)
3 4 piece " Microcontroller Package
Broadcom BCM2835, 1GHz ARM11 single-core processor
SDRAM: 512MB RAM
Wireless connectivity: 802.11 b/g/n wireless LAN
Bluetooth 4.1, Bluetooth Low Energy (BLE)
40PIN pre-soldered GPIO headers
Micro SD card slot
Mini-HDMI port (1080p60 video output)
Micro-USB power
Micro-USB OTG port
CSI camera connector
Composite video header
Composite reset header
Dimension: 65mm x 30mm x 11.6mm
Mini HDMI to HDMI Adapter
Micro USB OTG Cable
Micro SD Card 16GB
Power adapter US standard 5V/3A micro
USB type A plug to micro B plug cable
USB HUB HAT"
4 4 piece "Advance Microcontoller Package
Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
SD RAM: 8GB LPDDR4-3200 SDRAM (depending on model)
2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE
Gigabit Ethernet
2 x USB 3.0 ports; 2 x USB 2.0 ports.
2 x micro-HDMI ports (up to 4kp60 supported)
2-lane MIPI DSI display port
2-lane MIPI CSI camera port
4-pole stereo audio and composite video port H.265 (4kp60 decode), H264 (1080p60 decode, 1080p30 encode)
OpenGL ES 3.0 graphics
Micro-SD card slot for loading operating system and data storage
5V DC via USB-C connector (minimum 3A*)

5V DC via GPIO header (minimum 3A*)
Power over Ethernet (PoE) enabled (requires separate PoE HAT)
1xCase Black
1xOfficial USB-C Power Supply
1xMicro HDMI to Standard HDMI 1m Cables
1x16GB Class10 microSD Card
1xSet of Heatsink
1xT Cobbler GPIO Breakout compatible with Raspberry Pi
1x3.5 in. Touchscreen TFT LCD for Raspberry Pi 3 4 RPi with Stylus Pen"
5 4 piece "Camera Module without Infrared CutOff Filter
8 megapixel native resolution sensor-capable of 3280 x 2464 pixel static images
Supports 1080p30, 720p60 and 640x480p90 video
Size 25mm x 23mm x 9mm
No IR Filter with Blue Filter
Fixed focus lens on-board
150mm CSI camera cable included
Weight just over 3g
Can connect to a Raspberry Pi board via a short ribbon cable"
6 4 piece "Low Speed DC Motor
Voltage Range : 12-24V
Nominal Voltage: 24V
No Load Speed: 90 r/min
No Load Current: 500 mA
Max. Torque: 27 kg. cm
Power: 35W
StallTorque: 135kg. cm
Stall Current: 20A
Reduction Ratio: 1:91
Weight: 775g"
7 1 piece "GPS-RTK2 Board
Concurrent reception of GPS, GLONASS, Galileo and BeiDou
Receives both L1C/A and L2C bands
Voltage: 5V or 3.3V but all logic is 3.3V
Current: ~35mA (varies with constellations and tracking state)
Time to First Fix: 25s (cold), 2s (hot)
Max Navigation Rate:
PVT (basic location over UBX binary protocol) - 25Hz
RTK - 20Hz
Raw -25Hz
Horizontal Position Accuracy:
2.5m without RTK
0.010m with RTK
Max Altitude: 50km (31 miles)
Max Velocity: 500m/s (1118mph)
Dimensions: 43.5mm x 43.2mm (1.71in x 1.7in)
2x Qwiic Connectors"
8 4 piece "Camera Module with Infrared CutOff Filter
8 megapixel native resolution sensor-capable of 3280 x 2464
pixel static images
Supports 1080p30, 720p60 and 640x480p90 video
Size 25mm x 23mm x 9mm
Fixed focus lens on-board
150mm CSI camera cable included
Weight just over 3g
Can connect to a Raspberry Pi board via a short ribbon cable"
Other Information
Pls. send your Quotation to:

Contact Person: Mighty Jemuel Sotto
Email: mjc.sotto@mail.philrice.gov.ph
Contact No: (044) 456 0650 loc. 660/ 09975028500

Created by	Abegail Tirante Donayre
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