



Republic of the Philippines
Province of Surigao del Sur
City of Bislig

INVITATION TO BID

The Local Government Unit of Bislig City, through its Bids and Awards Committee (BAC) invites PhilGEPS registered Supplier's to apply for eligibility and to bid for the hereunder project:

Name of Project : **CCTV AND TRAFFIC LIGHTS SYSTEM SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING**

Location : Bislig City, Surigao Del Sur

Brief Description :

I. TRAFFIC LIGHT

1c. A. Soriano Ave. / DVO-Surigao Coastal Road

1 set Traffic Controller - Server
Multiple-Way-Control Function
*Arterial Coordinate Control
*Multi-Period Control
*Single-Point Adaptive Control
*Human Intervention on Signal Command
*Triggering Function of Crossing Pedestrian
*Capable of setting, modification and query of system data
Traffic flow data collecting function
*RS232 Serial Communication (3 baud rate, 1200 bps – 115200 bps)
Physical Dimension = 1200x600x440mm (HxWxD)
Protection Level = IP54 or higher
Voltage Single Phase = AC220V±20% 50Hz , Over Voltage Protection
Signal Light Output = 56-way, extendable to 112-way , Silicon controlled
Vehicle Detection Interface = 36-way, dry-contact or OC transistor output
, RJ45 interface type"

Interfaces:

*RS485: 1, used for count-down timer communication

*Network: 1, 10M/100M Adaptive

*USB 2.0: 1

*GPS: 1. Accepting GPS time-service

Malfunction Detection:

*Green conflict malfunction

*All red lights of signal light group power-out

*Working voltage & current of signal lights

*Communication

Timing/Period Presets

*Time base schedule number: 40

*Period of Period table: 16

*Stage Number of each Period Table: 16

*Phase Number: 24

*Minimum R, Y, G light time: 0s

*Maximum R, Y, G light time: 999s

Temperature in Operation = -20 deg C - +70 deg C

Relative Humidity = 5% - 95%, no condensation in 40 deg C

Vibration = 5-33Hz, 1g/1h, two-way amplitude 2.5 mm

Signal Light Control

*3 groups of motor vehicle

*1 group of non-motor vehicle

*6 groups for pedestrians

Pedestrian Crossing Trigger Control

*Capability of Parameter Query

Operational Parameter Setting:

Public Time

Channel

*Phase Parameter Setting:

Minimum green light time

Prolonged green light time

Maximum green light

*Phase Type: fixed, flexible, undetermined, key, pedestrian, bicycle, motor
*Capable of controller running status query

- 3 sets Straight Pole & Arm (Signal Lights)
Street Light Pole Arm = Height: 3m from Signal Lantern, Diameter: 3"
, Arm Length: 1.8m, Diameter: 2"
Signal Lantern Pole & Arm = Height: 6m, Diameter: 6"
, Arm Length: 5m, Diameter: 3"
Over-all Height = 9m
Material = G.I. Schedule 80
Base = 4 anchor bolt for each base
- 9 sets Straight Pole for Pedestrian Signals
Height = 4.5 m
Material = G.I. Schedule 80
Base = 4 anchor bolt for each base
LED Street Light
Power = 90 W
Housing Material = Aluminum, tempered glass, high transmittance lens
Input Voltage = AC110-240 V
Luminous Efficiency = ≥ 85 Lm/W
Color Temperature = 3000K-6000K
Protection = IP65
Working Temperature = -40 deg C - +70 deg C
- 1 set Traffic Controller Pedestal
Over-all Height = 0.7 m
Material = G.I. Schedule 80
Base = 4 anchor bolt for each base
- 9 sets Foundation Type 1
50mm thick gravel base
Anchor Bolt: 4 required, 20mm x 630 mm x 100 mm
Excavation Dimension: D-750mm, L-600mm, W-600mm
Concrete Mix: 1 cement, 2 sand, 3 gravel
- 3 sets Foundation Type 2
50mm thick gravel base
Anchor Bolt: 4 required, 20mm x 1016 mm x 100 mm
Excavation Dimension: D-1300mm, L-600mm, W-600mm
Concrete Mix: 1 cement, 2 sand, 3 gravel
- 6 sets Pedestrian Lantern Assembly with Countdown Timer
Transparent polycarbonate optical lens
Anti-phantom effect minimized, optimal viewing angle
High intensity LED light source – low energy consumption
Long life cycle – more than 80,000 working hours
Highly durable polycarbonate housing: UV-light resistant
Compliance with CE, RoHS, EN12368, ICO9001
Working Voltage: AC85V-265V, 50/60 Hz
Power Factor: ≥ 0.92
Vibrant Resistance Acc, to EN60068-2-64: 2007
Housing Material PC – UV Resistant
View Angle L/R-30deg U/D – 30deg
IP Grade IP54
Working Temperature: -40 deg C - +80 deg C
Impact Resistance IR 3 Acc. To EN12368
Damp Heat Resistance Acc. To EN60068-2-30
Housing Color: BLACK
RED: 80 pcs, ≥ 20000 cd/m² 620~630nm ≤ 9 W
GREEN: 87 pcs, ≥ 35000 cd/m² 503~508nm ≤ 10 W
- 3 sets 4 Aspect Lantern Assembly (BALL: R,Y,G + ARROW: R, Y, G)
Transparent polycarbonate optical lens
Anti-phantom effect minimized, optimal viewing angle
High intensity LED light source – low energy consumption
Long life cycle – more than 80,000 working hours
Highly durable polycarbonate housing: UV-light resistant

Compliance with CE, RoHS, EN12368, ICO9001
 Working Voltage: AC85V-265V, 50/60 Hz
 Power Factor: ≥ 0.92
 Vibrant Resistance Acc, to EN60068-2-64: 2007
 Housing Material PC – UV Resistant
 View Angle L/R-30deg U/D – 30deg
 IP Grade IP54
 Working Temperature: -40 deg C - +80 deg C
 Impact Resistance IR 3 Acc. To EN12368
 Damp Heat Resistance Acc. To EN60068-2-30
 Housing Color: BLACK
 Viewing Distance: $\geq 500m$

BALL:

RED: 168 pcs, $\geq 600cd$ 625~630nm $\leq 15W$

YELLOW: 168 pcs, $\geq 800cd$ 590~594nm $\leq 15W$

GREEN: 168 pcs, $\geq 800cd$ 503~508nm $\leq 15W$

ARROW:

RED: 90 pcs, $\geq 15000cd/m^2$ 620~630nm $\leq 9W$

YELLOW: 90 pcs, $\geq 20000cd/m^2$ 590~594nm $\leq 9W$

GREEN: 69 pcs, $\geq 25000cd/m^2$ 503~508nm $\leq 7W$

- | | | |
|---|------|--|
| 6 | sets | Pedestrian Push Button 3 colors optional for the arrow symbol: Blue, Green, Yellow 2 colors optional for the housing: Black, Yellow Die casting aluminium and stainless steel material IP65 Ingress protection On-Off mode: Magnetic Switch |
| 6 | sets | Pull Box Consists of box and lid Pull box and lid shall use steel reinforced concrete with min of 2,500 PSI Dimension outer: 700mm x 700mm x 700mm Dimension inner: 600mm x 600mm x 600mm $\frac{3}{4}$ " gravel bed |
| 6 | sets | Magnetic Vehicle Detector with Sealant 4" Deep Dimension of cutting: 1.5m x 1.5m 5 turns of AWG Gauge 14 Asphalt sealant as filler" |

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| TO BE QUANTIFIED | Detector Twisted Pair Loop Lead In Cable # Pairs : 4 AWG : 24 Stranding : Solid Conductor Material : Bare Copper Insulation Material : Polyolefin Outer Shield Material : Unshielded Outer Jacket Material : Polyethylene Installation Temp Range : -20 to + 60 deg C Bulk Cable Weight : 38.693 Kg/Km Max. Recommended Pulling Tension : 155.687 N Min. Bend Radius/Minor Axis : 58.420 mm Min. Bend / Installation : 58.420 mm RoHS (EU 2002/95/EC) : Compliant WEEE (EU 2002/96/EC) : Compliant BFR (EU 2003/11/EC) : Compliant CA Prop 65 (CJ for Wire and Cable) : Compliant Telecom Standards : Category 5e – TIA 568.C.2 Suitability Outdoor : Yes Aerial : Yes-Only when supported by messenger Suitability Burial : Yes Sunlight Resistance : Yes Capacitance (pf/m) : 45.934 Nominal velocity of propagation : 0.65 Delay skew (ns/100m) : 25 Conductor DC Resistance (ohm/100m) : 8.9 Max. Operating Voltage : 300 VRMS" |
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| TO BE QUANTIFIED | | <p>Detector Pit Consists of box and lid Pull box and lid shall use steel reinforced concrete with min of 2,500 PSI Dimension outer: 300mm x 300mm x 300mm Dimension inner: 200mm x 200mm x 200mm $\frac{3}{4}$" gravel bed"</p> |
| 3 | sets | <p>Street Name Sign Dimension : 4 ft x 2 ft Border and Text color : Black, non-reflectorized Background color : Black, reflectorized"</p> |
| 12 | sets | <p>Traffic Signage Compliant with international traffic sign standards</p> |
| 12 | set | <p>Sign Pole Foundation Pole Height: 10 ft Diameter: 2" Material: G.I. schedule 40 pipe Foundation : 300mm x 300mm x 400mm Concrete : 1-2-4"</p> |
| 1 | lot | <p>1" Underground Electrical Conduit (10" deep) with Restoration Material : 1" Electrical PVC Depth : 254mm Excavation : 200mm wide, 254mm deep Base Course : 154mm Concrete Restoration : 100mm"</p> |
| 1 | lot | <p>2" Underground Electrical Conduit (20" deep) with Restoration Material : 2" Electrical PVC Depth : 508mm Excavation : 300mm wide, 508mm deep Compacted earth material : 208mm Base Course : 200mm Concrete Restoration : 100mm"</p> |
| 1 | lot | <p>3" Underground Electrical Conduit (30" deep) with Restoration Material : 3" Electrical PVC Depth : 762mm Excavation : 300mm wide, 762mm deep Compacted earth material : 312mm Base Course : 300mm Concrete Restoration : 150mm"</p> |
| 1 | lot | <p>Lane Markings Compliant with international lane marking standards</p> |
| 1 | pc | <p>Service Entrance Concrete Pole : 150mm x 150mm x 1,800mm 2" G.I. Schedule 40 pipe extension (on top of concrete pole) : 3,400mm Nema enclosure for 30 Amps circuit breaker : @ 1500mm height Provision for meter base installation : @ 1500mm height With weather head cap : Yes"</p> |
| 1 | pc | <p>Ground Rod Diameter : $\frac{3}{4}$" Length : 3 m Material : Copper"</p> |
| 1 | lot | <p>Traffic Electrical Wiring As per electrical plan</p> |
| 1 | lot | <p>Island Construction</p> |
| 1 | lot | <p>Mobilization</p> |

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| 1 | lot | Conceptualization |
| 1 | lot | Testing & Commissioning |

II. CCTV INSTALLATION ON SIGNALIZED INTERSECTION AND VARIOUS LOCATION

A. Materials

ACTIVE COMPONENTS

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|-----|-------|---|
| 7 | unit | <p>Outdoor PTZ Camera</p> <p>Camera</p> <ul style="list-style-type: none"> *Image Sensor: 1/2.8" 3.0 MP Progressive Scan CMOS *Min. Illumination: F1.6, AGC On : Color : 0.05 lux, B/W : 0.01 lux *Shutter Speed : 1/1~1/10,000s *Wide Dynamic Range: With DWDR <p>Lens</p> <ul style="list-style-type: none"> *Focal Length: 2.8~12mm, 4x *Aperture: F1.6 ~F2.7 *Focus : Auto / Semiautomatic / Manual *Digital Zoom: 16x *Zoom Speed: Approx.1s(Wide~Tele) *Angle of View: 105~33.5 degree (Wide~Tele) <p>Compression Standard</p> <ul style="list-style-type: none"> *Video Compression: H.265+/H.265/H.264+/H.264/MJPEG <p>Smart Features</p> <ul style="list-style-type: none"> *Behaviour Analyses : Intrusion detection, line crossing detection, audio exception detection, motion detection <p>Network</p> <ul style="list-style-type: none"> *Storage: Optional microSD/SDHC/SDXC card slot, up to 128 GB *Alarm trigger: Tampering alarm, Network disconnect, IP address conflict, Storage exception <p>Pan & Tilt</p> <ul style="list-style-type: none"> *Range: Pan: 0~350°; Tilt: 0°~90° *Speed: Pan Manual Speed: 0.1°~60°/s , Tilt Manual Speed: 0.1°~50°/s *Number of Preset: 300 *Patrol: 8 patrols, up to 32 presets per patrol *Park Action: Preset/Patrol *Scheduled Task: Preset / Reboot / Patrol /Self test / Aux output <p>General</p> <ul style="list-style-type: none"> *Protection Level: IP67, IK10, 4,000V lightning protection, surge protection and voltage transient protection *Working Temp. : -30°C ~ 65°C (-22°F ~ 149°F) *Humidity: 90% or less" |
| 121 | units | <p>Bullet Camera</p> <p>Camera</p> <ul style="list-style-type: none"> *Image Sensor: 1/2.5" 4.0 MP progressive scan CMOS or higher *Min. Illumination: Color: 0.008 lux @(F1.2, AGC ON), 0.014 lux @(F1.6, AGC ON), 0 lux with IR; or higher *Shutter Speed : 1/3 s to 1/100,000 s with slow shutter capability *Digital Noise Reduction: 3D DNR, BLC, WDR *Wide Dynamic Range (WDR) : 120dB Powered by Darkfighter Technology *3-Axis Adjustment: Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360° <p>Lens</p> <ul style="list-style-type: none"> *Focal Length: 2.8, 4, 6, 8, 12 mm ; Motorized Lens *Aperture: F1.6 *Focus : Fixed *FOV : 2.8mm/4mm/6mm/8mm/12mm <p>Infrared</p> <ul style="list-style-type: none"> *IR Range: Up to 100 m *Wavelength : 850nm <p>Compression Standard</p> <ul style="list-style-type: none"> *Video Compression: H.264/MPEG4/MJPEG *Video Bit Rate: 32 Kbps to 16 Mbps <p>Smart Features</p> <ul style="list-style-type: none"> Behaviour Analyses : Line crossing detection, intrusion detection/ object |

removal detection, unattended baggage detection,

With face detection

Exception Detection : Scene Change Detection

Network

*Storage: Optional microSD/SDHC/SDXC card slot, up to 128 GB

*Alarm trigger Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error

General

*Protection Level: IP67

*Working Temp. : -30 °C to +60 °C (-22 °F to +140 °F)

*Humidity: 95% or less (non-condensing)

*IR Range: 50 m, 80 m, optional"

7 units **DOME Camera**

Camera

*Image Sensor: 1/2.4" 6.0 MP Progressive Scan CMOS

*Min. Illumination: Color: 0.008 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.6, AGC ON)

*Shutter Speed : 1/3 s to 1/100,000 s with slow shutter capability

*Wide Dynamic Range: 120dB Powered by Darkfighter technology

*3-Axis Adjustment: Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°

Lens

*Focal Length: 2.8/4/6 mm

*Aperture: F1.6

*Focus : Fixed

*FOV:2.8mm/4mm/6mm

Infrared

*IR Range: Up to 30 m

*Wavelength: 850nm

Compression Standard

*Video Compression: H.265+/H.265/H.264+/H.264/MJPEG

*Video Bit Rate: 32 Kbps to 16 Mbps

Smart Features

*Behaviour Analyses : Line crossing detection, intrusion detection/ object removal detection, unattended baggage detection, with face detection

*Exception Detection : Scene Change Detection

Network

*Storage: Optional microSD/SDHC/SDXC card slot, up to 128 GB

*Alarm trigger : Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error

General

*Protection Level: IP67, IK10

*Working Temp. : -30 °C to +60 °C (-22 °F to +140 °F)

*Humidity: 95% or less (non-condensing)

*IR Range: Up to 30 m

2 units **ANPR Camera**

Camera

*Image Sensor: 1/1.8" 2.0 MP Progressive Scan CMOS

*Min. Illumination: Color: 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR

*Shutter Speed : 1 s to 1/100,000 s, supports slow shutter

*Digital Noise Reduction: BLC / 3D DNR/ROI/Defog/EIS

*Wide Dynamic Range: 120dB;

Powered by Darkfighter Technology

Lens

*Focal Length: 8~32mm Motorized Lens

*Aperture: F1.4

*Focus : AF Automatic

*Angle of View : 50.4°-15.7°

Infrared

*IR Range: Up to 100 m

Compression Standard

*Video Compression: H.264/MPEG4/MJPEG

*Video Bit Rate: 32 Kbps to 16 Mbps

Smart Features

*Behaviour Analyses : Road traffic and vehicle detection;

Smart recording: support edge recording and dual-VCA;

Smart encoding: support low bit rate, low latency, ROI enhance encoding

Network

*Storage: NAS (Support NFS,SMB/CIFS), ANR

*Alarm trigger : Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception

General

*Protection Level: IP67

*Working Temp. : -30 °C to +60 °C (-22 °F to +140 °F)

*Humidity: 95% or less (non-condensing)

Performance

*Working Distance : Up to 35 meters

*Coverage : 1 Lane

*Detection Sensitivity : 1 Lane

*Frame Rate : 60 fps

*Vehicle Type : Car/Van/Bus/Truck/Others with vehicle color detection and manufacturer support

*Capture Speed Range: 5 to 250 km/h "

4 units **Network Video Recorder(NVR)**

Video/Audio Input & Recording

*IP Video Input: 64 Channels with independent configuration for each channel, including resolution, frame rate, bit rate, image quality, etc.

*Recording Resolution: 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF

*PAL/NTSC adaptive video inputs

*Holiday Recording Scheduling

*Recording modes: manual, continuous, alarm, motion, motion | alarm, motion & alarm VCA, and POS

*Tagging Capability

Decoding Compression

H.265/H.265+/H.264/H.264+/MPEG4

Incoming BandWidth : 320 Mbps

Viewing

*2 x HDMI and 2x VGA

*Multi-screen display in live view

*2-ch @ 12 MP (20fps) / 4-ch @ 8 MP (25fps) / 8-ch @ 4MP (30fps) / 16-ch @ 1080p (30fps)

Live/Playback

*Resolution of 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF

*Capabilities to slow forward, fast forward, loop, single frame, E-PTZ and slice playback

*Searching record files and captured pictures by events (alarm input/motion detection)

*8/16-ch synchronous playback at up to 1080p resolution

*Normal/Smart/custom video playback mode

*Smart search for efficient playback

Storage

*Up to 8 SATA interfaces and 1 eSATA interface for HDD connection

*Must be RAID 0/1/5/6/10

*10TB capacity for each HDD

Interface

*Network Interface: 2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface

*Serial Interface: RS-232; RS-485; Keyboard

*USB Interface: Front panel: 2 x USB 2.0; Rear panel: 1 x USB 3.0

Alarm

*Alarm for video loss, motion detection, tampering, abnormal signal, video input/output standard mismatch, illegal login, network disconnected, IP conflict, abnormal record/capture, HDD error, and HDD full, etc.

*Alarm triggers full screen monitoring, audio alarm, notifying surveillance center, sending e-mail and alarm output

Others Three-level user management

3 units **Network Attached Storage: Barebone System with HDDs**

No. of Bays : 4 with hot swappable capabilities

Processor : Intel Atom Quad Core 2.4GHz or higher

Memory : 2GB DDR3 RAM or higher

Ports : USB3.0 x 2, USB2.0 x 2

Connectivity : Gigabit LAN x 2

HDD : 4 @ 4TB, Loaded with 16 TB Full Capacity Warranty for 2 years

- 1 units **Server Computer with complete accessories**
Processor : Intel Xeon Silver 4114 2.2G or higher processor speed
Memory : 16GB
HDD : 1 TB
Raid : PERC H730P RAID Controller, 2GB NV Cache, Mini card
Connectivity : Gigabit LAN, WLAN 802.11ac/a/b/g/n wireless LAN and Bluetooth 5.0
Monitor : 24" LED
Accessories : Keyboard & Mouse
- 1 units **3000 VA Uninterrupted Power Supply**
Power Rating : 3000 VA
Wattage : 2700 W
Voltage : 230 V
Backup power duration : 3 – 11 minutes at Full Load
Form Factor : Double-Conversion Rack/Tower
Connectivity : USB, RS232 Port, Terminal Communication Block, InstelliSlot Port for SNMP Network Management Cards
Control Panel : LCD
- 5 units **Gigabit PoE Switch**
Ports 32-Ports
- 8 units **Smart TV Monitor**
Size : 65"
Resolution : 4K UHD
Connectivity : Ethernet, Built-in Wifi, HDMI, DVI-D, RGB, RS232 (In/Out), IR Receiver, USB
Mounting : Wall mount bracket
- 1 unit **Workstation**
Processor : Intel Core i7 7700 7th Generation Processor
Memory : 8G DDR4
HDD : 1 TB
Connectivity : Gigabit LAN, WLAN 802.11ac/a/b/g/n wireless LAN and Bluetooth 5.0
Monitor : 24" LED
Operating System : Windows 10
Accessories : Keyboard & Mouse, AVR/UPS
- 12 units **Backup Storage**
HDD : 8 TB for CCTV data storage
- 1 units **Radio Antenna**
Main Tower : 150 ft
*Frequency Range: 2402 - 2472 MHZ
*Antenna Type: Integrated
*Peak Gain: 11dBi
*Power: 100mW – 1000 mW or 20dBm – 30 dBm
*Bidirectional
*Encryption: 128-bit AES (CCMP mode)
*Temperature: -30°C to +60°C (-22°F to +140°F)
*Environmental: IP66 or higher
- 12 units **#Monopole Tower: 40 ft**
*Frequency Range: 2402 - 2472 MHZ
*Antenna Type: Integrated
*Peak Gain: 11dBi
*Power: 100mW – 1000 mW or 20dBm – 30 dBm
*Bidirectional
*Encryption: 128-bit AES (CCMP mode)
*Temperature: -30°C to +60°C (-22°F to +140°F)
*Environmental: IP66 or higher
- 58 units **# Each pole for signal transmission**
*Frequency Range: 2402 – 2472 MHz
*Antenna Type: Dish

- *Peak Gain: 17dBi
- *Power: 100mW or 20dBm
- *Bidirectional
- *Encryption: 128-bit AES (CCMP mode)
- *Temperature: -30°C to +60°C (-22°F to +140°F)
- *Environmental: IP66 or higher
- *Must be able to operate in high interference environments and provides superior throughput of over 200 Mbps of real user data.
- *Configurable modes of operation to ensure robust adaptivity to both symmetrical and asymmetrical traffic while providing high performance and round-trip latency as low as 2 – 3 ms.
- *With QoS management that offers an outstanding quality for triple play services – VoIP, video and data and provides three levels of traffic priority.
- *Capability for long deployment range through a high gain antenna combined with 30 dBm of transmit power
- *Must operate within 2.4 GHz to 5.0 GHz frequency spectrum

Electrical/Power Supply for CCTV Installation

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| 58 | units | *PPoE Switch 8-Port |
| 58 | units | *Uninterrupted Power Supply (UPS): 600VA, 15 minutes backup power |
| 1 | lot | *Others, Grounding Rod, lightning arresters, wirings, Clamp and etc. (Active) |

PASSIVE COMPONENTS

Others

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|-----|-------|--|
| 1 | unit | Data Cabinet : 6 FT, Indoor Type with PDU |
| 12 | unit | Cable Managers : 2U |
| 12 | pcs. | Patch Panel : 24 Port |
| 220 | pcs. | Patch Cord @ 1 Meter |
| 58 | pcs. | Data Cabinet 1 FT, Outdoor type |
| 58 | units | Others, Grounding Rod, lightning arresters, wirings, Clamp and etc (Passive) |

Towers

| | | |
|----|-------|--|
| 1 | pcs. | Main tower @ command center : 150 feet |
| 20 | pcs. | Relay towers @ strategic locations : 40 feet monopole with guy wires |
| 58 | lots | Mounting : Camera poles with brackets & support |
| 62 | rolls | Cabling : UTP CAT6e, 305M per roll |

Roughing Ins

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| 1 | lot | Civil Works To be quantified |
| | | Electrical Works To be quantified |
| | | Command Center Setup To be quantified |
| | | Command Center Transfer & Restoration To be quantified |
| | | Testing & Commissioning and Supervision To be quantified |
| | | Pipes, Mouldings, Hangers and Supports |
| | | Connectors, Labeling and Consumables |
| | | Contingencies and Catenaries |
| | | Chipping and Drilling |
| | | Labor and Installation |

- **With Terms of Reference**
- **Term of Reference Attached to Bid Documents**

Approved Budget
For the Contract : **P 19,523,000.00**

Source Funds : Supplemental Budget No. 1 C.Y. 2018

Delivery Period : 180 C.D.

Prospective bidders should have completed a similar project within the last 5 years with an amount of at least 50% of the proposed project for bidding. The Eligibility Check/Screening as well as the Preliminary Examination of Bids shall use non-discretionary "pass/fail" criteria. Post-qualification of the lowest calculated bid shall be conducted.

All particulars relative to Eligibility Statement and Screening, Bid Security, Performance Security, Pre-Bidding Conference, Evaluation of Bids, Post-qualification and Award of Contract shall be governed by the pertinent provisions of R.A. 9184 and its Implementing Rules and Regulation (IRR).

The complete schedule of activities is listed, as follows:

| Activities | Schedule |
|------------------------------|-------------------------------|
| 1. Issuance of Bid Documents | Feb. 21, 2020 – Mar. 12, 2020 |
| 2. Pre-bid Conference | February 27, 2020 @ 1:30pm |
| 3. Opening of Bids | March 12, 2020 @ 1:30pm |
| 4. Bid Evaluation | March 17, 2020 @ 1:30pm |
| 5. Post-qualification | March 24, 2020 @ 1:30pm |
| 6. Notice of Award | March 27, 2020 |

Bid Documents will be available only to prospective bidders upon payment of a non-refundable amount of P 25,000.00 to the LGU Bislig City Cashier.

The LGU Bislig City assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of the bid.

The BAC of Bislig City reserves the right to accept or reject any bid, to annul the bidding process, and to reject all Bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

Approved by:

Dates of Publication: _____
Newspaper: _____

ENGR. ROMULO C. GARAY
BAC Chairman