



មូលនិធិដុនបូស្កូកម្ពុជា(សាខាក្រុងប៉ៃត)

Don Bosco Foundation of Cambodia (Krong Poipet Branch)

ភូមិមិត្តភាព សង្កាត់ប៉ៃត ក្រុងប៉ៃត ខេត្តបន្ទាយមានជ័យ

Mithapheap Village , Sangkat Poipet ,Poipet City, Banteay Meanchey Province

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Electrical and Automation Labs

Invitation for Submission of Quotations

(Urgent)

Background:

The Don Bosco General and Technical High School Poipet provides quality technical training in basic skills such as ICT and electrical engineering. These training courses are universally in demand across industries and across sectors. The industrial sector in Cambodia has voiced that the need for skilled workers is greater than the number of students Don Bosco General and Technical High School Poipet provides.

The manufacturing processes are increasingly becoming more automatised and vocational schools, especially in rural areas, are not able to adapt their curriculum as quickly to the skills required by employers. Thus, equipping students with skills that allow them to understand and use programmable logic controllers (PLC) is an essential skill that prepares students and future employees for the job market. A PLC is an industrial digital computer which has been adapted for the control of manufacturing processes, such as assembly lines, robotic devices, or any activity that requires high reliability, ease of programming and process fault diagnosis.

Currently, the Don Bosco General and Technical High School Poipet is implementing a project on the *Promotion and Application of Programmable Logic Controllers*, which is funded Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). The project focus is to update the Don Bosco classroom by purchasing three programmable logic controllers (including computers) and equipping Don Bosco teachers with the skills to update their curriculum and teach their students how to use programmable logic controllers (PLCs).

Invitation for submission of quotations from qualified supplies:

Qualified supplies are invited to submit their quotations to supply 3 sets of Electrical and Automation Labs as per the description below and the attached specifications (a spreadsheet soft copy can be sent upon request).

No.	Description	Detail specification
1	Direct-on-Line starter	See in attached sheet
2	Star-delta-starter	
3	Soft Starter Controller	
4	Variable Speed Drive	
5	Program logic controller (PLC)-Smart Relay	
6	Three Phase Electric Motor	
7	Computer(Desktop)	

These pictures are for demonstration purpose only

- Constant speed
- ON-OFF control
- Direct-On-Line (DOL) starter

Products to be chosen in the product ranges:

- Thermal-magnetic motor circuit breaker GV2, GV3 or GV7
- LC1K or LC1D type contactors

- Constant speed
- ON-OFF control
- Inrush current limitation
- Star-delta starter

Products to be chosen in the product ranges:

- Thermal-magnetic motor circuit breaker GV3, GV7 or NSX
- 3 x LC1D or 3 x LC1F type contactors

See page 8 to select your star-delta starter regarding your application

Presentation overview

Zelio Logic - Smart relays
Compact and modular smart relays

General features

- Compact and modular design
- Wide range of functions
- Easy installation and maintenance
- High performance and reliability

Advanced features

- Modular design
- Wide range of functions
- Easy installation and maintenance
- High performance and reliability

- Constant speed
- ON-OFF control
- Inrush current limitation
- Soft start and/or stop
- Soft starter

Products to be chosen in the product ranges:

- Thermal-magnetic motor circuit breaker GV2, GV3 or GV7
- Altistart soft starter

- Variable speed
- Inrush current limitation
- Soft start and/or stop
- Fine control
- Variable Speed Drive (VSD)

Products to be chosen in the product ranges:

- Magnetic motor circuit breaker GV2, GV3 or GV7
Alternative protection: fuse holder TeSys DF
- Altivar Variable Speed Drives (VSD)



Interested suppliers are invited to submit their quotations in sealed envelopes to the Don Bosco General and Technical High School Poipet's office in Poipet, Banteay Meanchey province, Cambodia.

Quotes must include all costs in their offer, including delivery, the installation of the items to the above address of Don Bosco General and Technical High School Poipet, packaging, and shipment.

Suppliers must include enough technical specifications and descriptions in their offers to allow for a thorough assessment. Deadline for the submission of the quotation is the **7 December 2020**.

**Company's information
(address and phone contact)**

DETAILS

(Electrical and Automation Labs)

To:	Don Bosco General and Technical High School of Poipet	
Address:	Mittapheap Village, Sangkat Poipet, Poipet City, Banteay Meanchey Province	Quote ref:
Holder:	Fr. Yang Jung Sik	Quote date:
Email address:	ymarcosdb@gmail.com	Quote valid till:
Telephone number:	078 581 695	Lead time:

Delivery term: DDP

No.	Description	Total Amount in USD
1	Direct-on-Line starter (see detial list in atttached)	-
2	Star-delta-starter (see detial list in atttached)	-
3	Soft Starter Controller (see detial list in atttached)	-
4	Variable Speed Drive (see detial list in atttached)	-
5	Program logic controller (PLC)-Smart Relay (see detial list in atttached)	-
6	Three Phase Electic Motor	-
7	Computer(Desktop)	-
Total Amount		-
VAT (10%)		-
Total Amount including VAT (10%)		-

Delivery and payment term

Customer's Confirmation	Representative of company (name)
<p>Signature</p> <p>Stamp</p> <p>Name</p>	

**Company's information
(address and phone contact)**

DETAILS (Electrical and Automation Labs)					
Nº	Description	Quantity		Unit Price in USD	Total Amount in USD
1	Direct-on-Line starter (4 sets)				
1.1	Direct Online with 2 components (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	set		
	Fuse 6A	2	set		
	MOTOR CIRCUIT BREAKER	2	pcs		
	3P CONT 9A AC3 4KW 1NO 1NC 220VAC COIL	2	pcs		
	PLATE	2	pcs		
	TERMINAL BLOCK	4	pcs		
	TERMINAL BLOCK	4	pcs		
	Telequick Mounting plate	1	set		
	Sym DIN chassis	4	set		
	Electrical Terminal	2	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
1.2	Direct Online with 3 components (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	set		
	Fuse 6A	2	set		
	MAGNETIC CIRCUIT BREAKER	2	pcs		
	3P CONT 9A AC3 4KW 1NO 1NC 220VAC COIL	2	pcs		
	TESYS D THERMAL OVERLOAD 1.6-2.5A CL10A	2	pcs		
	PLATE	2	pcs		
	GV2 GV3 AUXILIARY N/O N/C TOP	2	pcs		
	Telequick Mounting plate	1	set		
	TERMINAL BLOCK	4	pcs		
	TERMINAL BLOCK	4	pcs		
	Electrical Terminal	2	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
2	Star-delta-starter (4 sets)				
2.1	Star Delta 2 Component (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	set		
	Fuse 6A	2	set		
	MOTOR CIRCUIT BREAKER	2	pcs		
	3P CONT 9A AC3 4KW 1NO 1NC 220VAC COIL	6	pcs		
	ADD ON BLOCK 2 NO + 2 NC -F-Model	2	pcs		
	MOUNTING KIT	2	pcs		

	Kit for star delta starters, for 3 x contactors	2	pcs		
	Telequick Mounting plate	1	set		
	Electrical Terminal	2	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
2.2	Star Delta 3 Component (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	pcs		
	Fuse 6A	2	set		
	GV2 MOTOR CB MAGNETIC 4A TOGGLE SWITCH	2	pcs		
	TESYS D THERMAL OVERLOAD 2.5-4.0A CL10A	2	pcs		
	Contactactor TeSys D 3P AC3 18A 220VAC coil	6	pcs		
	ADD ON BLOCK 2 NO + 2 NC -F-Model	2	pcs		
	MOUNTING KIT	2	pcs		
	Kit for star delta starters, for 3 x contactors	2	pcs		
	Electrical Terminal	2	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
3	Soft Starter Controller (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	set		
	Fuse 6A	2	set		
	TERMINAL BLOCK	2	pcs		
	3P CONT 9A AC3 4KW 1NO 1NC 220VAC COIL	2	pcs		
	SOFT-START STOP 6A 380 415V	4	pcs		
	Electrical Terminal	1	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
4	Variable Speed Drive (2 sets)				
	Enclosure	2	set		
	MCB 4P 20A 10KA	2	pcs		
	RCCB 4P 20A 30mA	2	pcs		
	MCB 1P 6A 6KA	4	pcs		
	Fuse Holder	2	set		
	Fuse 6A	2	set		
	MOTOR CIRCUIT BREAKER	2	pcs		
	TERMINAL BLOCK	2	pcs		
	3P CONT 9A AC3 4KW 1NO 1NC 220VAC COIL	2	pcs		
	ATV212 0,75KW 1HP 480V TRI CEM IP54 VARI	2	pcs		
	Electrical Terminal	1	set		
	Start Stop Button and Pilot Lights	2	set		
	Cable & Accessories	2	set		
	Flexible EMT	2	set		
5	Program logic controller (PLC)-Smart Relay (3 sets)	3	set		
	Enclosure	3	set		
	MCB 4P 20A 10KA	3	pcs		
	RCCB 4P 20A 30mA	3	pcs		
	MCB 1P 6A 6KA	6	pcs		
	Fuse Holder	3	set		
	Fuse 6A	3	set		
	modular smart relay Zelio Logic - 26 I O - 24 V DC - clock - display	3	pcs		
	Programming software "Zelio Soft 2" multilingual - for Zelio Logic	3	pcs		
	USB PC connecting cable - for smart relay Zelio Logic - 3 m	3	pcs		
	Bluetooth interface - for PC/Zelio Logic smart relay	3	pcs		

	memory cartridge - for smart relay Zelio Logic firmware - for v 3.0 - EEPROM	3	pcs		
	communication interface - for smart relay Zelio Logic	3	pcs		
	modem interface - GSM - for communication interface SR2COM01	3	pcs		
	Alarm software to send alarm to a PC, SMS to a GSM, email via SMS	3	pcs		
	Modbus network slave communication module - for SR3 24 V DC smart relay	3	pcs		
	Ethernet communication interface - for SR3 24V DC smart relay	3	pcs		
	discrete I/O extension module - 10 I O - 24 V DC - for Zelio Logic	3	pcs		
	4.3" wide screen touch panel, RS-232 terminal block	3	pcs		
	Magelis small panel connecting cable - for smart relay Zelio Logic	3	pcs		
	Pilot Lights	3	set		
	Cable & Accessories	3	set		
	Flexible EMT	3	set		
6	Three Phase Electric Motor	12	set		
7	Computer(Desktop)	3	set		
	- Creen 32" Full HD(1920 x 1080) IPS Dell				
	- CPU: 10-Gen Core TM i7-10750h 5.00Ghz				
	- RAM: 16GB DDR4				
	- HDD: 1TB + 128GB M2				
	- Optical Drive: DVD-RW				
	- VGA GTX1660 6G				
	- Network: 100/1000				
	- USB keyboard Dell				
	- USB Mouse Dell				
	- Mouse Pad				
	- UPS 650				
				Total Amount	
				VAT(10%)	
				Total Amount including VAT(10%)	