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Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:
Place of Delivery: **PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services** Delivery Term: **210 CD ARNP**
Date of Delivery: **210 calendar days after receipt of Notice to Proceed** Payment Term: **LDDAP**
Mode of Procurement: **Public Bidding** VAT INCLUSIVE

Item No.	Unit	Description	Quantity	Unit Cost	Amount	MIRDC Evaluation (Pass/Fail)
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00	
		Technical Specifications by End-User (MIRDC)				
		Supplier's Offer and Compliance				
A. Scope of Work		Affidavit of Undertaking				
The scope of work for Controller Operated Battle Ready Armament (COBRA) Control System are as follows:		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
1. Supply of labor, materials, and equipment necessary for the control system installation and integration to mechanical system. These include the following:		Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
a.	Industrial Human Machine Interface with Operating System	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
b.	Industrial HMI Metal Mechanical Mounting and Housing	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
c.	(Traverse) Closed Loop Stepper Motor with Motor Driver	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
d.	(Elevation) Closed Loop Stepper Motor with Motor Driver and Brake with Manual Release	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
e.	(Camera X) Closed Loop Stepper Motor with Motor Driver	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
f.	(Camera Y) Closed Loop Stepper Motor with Motor Driver	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
g.	(Cocking) Closed Loop Stepper Motor with Motor Driver	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
h.	Military Joystick Hand Controller (Gunner Control Handle Unit)	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
i.	Joystick Mechanical Mounting with cable connectors	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
j.	Industrial Network Switch	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass
k.	Communication Cables	Affidavit of Undertaking				
		to provide scope of work for the Controller Operated Battle Ready Armament (COBRA) Control System				Pass

(Total Amount in Words) 1 of 16

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:
PHOEBE JOY S. BANDEJAS
Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available:
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 02-308687-2023-10-00010
Amount: 4,000,000.00 5071990



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
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PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center,	Date: 23-Oct-23
Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23

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Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE

Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
c.		Gimbal System Integration using Gyroscope			
					Pass
d.		Closed Loop Stepper Motor Drive Software Development Kit (Traverse/Elevation/Cocking/Camera System)			
					Pass
3		Integration and Installation of COBRA Control System to identified Armored Personnel Carrier.			
					Pass
4		Provide training to the involved personnel of Project COBRA for integration and programming of the COBRA Control System.			
					Pass
5		Provide operation, preventive, and corrective maintenance manuals of the software and hardware devices supplied for the integration of COBRA Control System.			
					Pass
B Detailed Specifications		Vartech Customized HMI (Siteshot)			
The Control System of the COBRA has the following detailed specifications:		The HMI will be customized and ruggedized based on the required specification.			
1 Industrial Human Machine Interface with Operating System		The HMI will be customized and ruggedized based on the required specification.			
Video Ports: VGA and DisplayPort (DP)		The HMI will be customized and ruggedized based on the required specification.			
Touchscreen Type: 5-wire analog resistive		The HMI will be customized and ruggedized based on the required specification.			
RS-232 Ports: 3-4 ports		The HMI will be customized and ruggedized based on the required specification.			
USB 2.0 Ports: 2 ports (Type A)		The HMI will be customized and ruggedized based on the required specification.			
USB 3.0 Ports: 2 ports (Type A)		The HMI will be customized and ruggedized based on the required specification.			
Ethernet Ports: 3-5 ports (RJ45)		The HMI will be customized and ruggedized based on the required specification.			
Display Type: XGA TFT LED/LCD		The HMI will be customized and ruggedized based on the required specification.			

(Total Amount in Words) 3 of 16

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Conformer: 


Signature over Printed Name of Supplier

Date: 11/10/23

Very truly yours,

ROBERT O. DIZON
Executive Director

Authorized Official

Funds Available: 

JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 82-308601-7000-10-000/01
Amount: ₱ 4,000,000.00 502/1990



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Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23

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1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
		Vartech Customized HMI (Siteshot)			
Max. Resolution:	1024 x 768	The HMI will be customized and ruggedized based on the required specification.			Pass
Display Size:	12.1"	The HMI will be customized and ruggedized based on the required specification.			Pass
Processor:	Intel Core i9 11th Generation	The HMI will be customized and ruggedized based on the required specification.			Pass
RAM:	32GB	The HMI will be customized and ruggedized based on the required specification.			Pass
Storage:	500GB SSD	The HMI will be customized and ruggedized based on the required specification.			Pass
Operating System:	Windows 10 Enterprise	The HMI will be customized and ruggedized based on the required specification.			Pass
Power Supply:	9-36V DC	The HMI will be customized and ruggedized based on the required specification.			Pass
Wifi	6 enabled	The HMI will be customized and ruggedized based on the required specification.			Pass
Inclusion:	Casing installed with Push buttons for settings modifications	The HMI will be customized and ruggedized based on the required specification.			Pass
	2. Industrial HMI Metal Mechanical Mounting and Housing	The HMI will be customized and ruggedized based on the required specification.			Pass
	Metal Enclosure for HMI (Military Graded)	The HMI will be customized and ruggedized based on the required specification.			Pass
	With Push Buttons for Settings Modifications (with lights for night application)	The HMI will be customized and ruggedized based on the required specification.			Pass
	With Switches for safety includes the following function:	The HMI will be customized and ruggedized based on the required specification.			Pass
	(Total Amount in Words)	The HMI will be customized and ruggedized based on the required specification.			Pass

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Conforme:

Very truly yours,
ROBERT O. DIZON
Executive Director

Signature over Printed Name of Supplier

Authorized Official

Date

Funds Available:
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 62-307601-7000-10-100/01
Amount: 4,000,000.00 5011990



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Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23


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1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
		On/Off Switching			Pass
		Safety Switching			Pass
		Arm Switching			Pass
		Override Switching			Pass
		Emergency Cut Off			Pass
		HMI Switch Operation Logic			Pass
		3. (Traverse) Closed Loop Stepper Motor with Motor Driver			Pass
		Motor Specifications:			Pass
		Voltage (VDC): 24.0			Pass
		Rated Current (A): 4.0			Pass
		Limit: 360 Degrees continuous (Clockwise/Counterclockwise)			Pass
		Encoder Type: Absolute (for Angle Position Retention)			Pass
		Frame Size: 60 mm (NEMA 24)			Pass
		Maximum Motor Length: 132 mm			Pass
		Minimum Holding Torque: 9 N-m			Pass
		Shaft/Gear Type: Harmonic Planetary Gear			Pass
		Gear Ratio (X1): 15:1			Pass
		Minimal Backlash			Pass

(Total Amount in Words) 5 of 16


In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 

Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,
ROBERT O. DIZON
Executive Director

Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV

Chief Accountant

ALOBS No. 0230607-2023-10-000107
Amount: 14,000,000.00 SD211990



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Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
Max. Radial Load: 450N		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max Momentary Torque: 350%		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Dust, Water, and Weather proofing compliant		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max. Operating Temperature: 80°C		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Stepper Motor Drive:		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Type: Closed Loop		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Output Peak Current: 8A		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Input Voltage: 24VDC		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Communication: RS485 to Ethernet / Ethernet		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Inclusions:		AZD-KX-AZ Driver	RS-485		Pass
Cables for Communication and Motor Controls		AZD-KX-AZ Driver	RS-485		Pass
Electromagnetic Brake with Manual Release Coupling		AZD-KX-AZ Driver	RS-485		Pass
4. (Elevation) Closed Loop Stepper Motor with Motor Driver and Brake with Manual Release		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Motor Specifications:		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Voltage (VDC): 24.0		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Rated Current (A): 4.0		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Limit: 360 Degrees continuous (Clockwise/Counterclockwise)		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Encoder Type: Absolute (for Angle Position Retention)		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Frame Size: 60 mm (NEMA 24)		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Maximum Motor Length: 132 mm		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Minimum Holding Torque: 9 N-m		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Shaft/Gear Type: Harmonic Planetary Gear		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Gear Ratio (X:1): 15:1		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Minimal Backlash		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max. Radial Load: 450N		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max Momentary Torque: 350%		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass

(Total Amount in Words)

6 of 16

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Signature over Printed Name of Supplier

Date

Very truly yours,

ROBERT O. DIZON
Executive Director

Authorized Official

Funds Available:

JOHNNY G. QUINGCO

Accountant IV

Chief Accountant

ALOBS No.

Amount:

23-10-1070-100/01

50711990

P.O. No. **23-10-1070**



Republic of the Philippines
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TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

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Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
		Dust, Water, and Weather proofing compliant	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Max. Operating Temperature: 80°C	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Stepper Motor Drive:	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Type: Closed Loop	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Output Peak Current: 8A	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Input Voltage: 24VDC	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Communication: RS485 to Ethernet / Ethernet	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Inclusions:	AZD-KX-AZ Driver RS-485		Pass
		Cables for Communication and Motor Controls	AZD-KX-AZ Driver RS-485		Pass
		Electromagnetic Brake with Manual Release Coupling	AZD-KX-AZ Driver RS-485		Pass
		S1 (Camera X) Closed Loop Stepper Motor with Motor Driver	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Motor Specifications:	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Voltage (VDC): 24.0	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Rated Current (A): 4.0	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Limit: 360 Degrees continuous (Clockwise/Counterclockwise)	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Encoder Type: Absolute (for Angle Position Retention)	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Frame Size: 60 mm (NEMA 24)	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Maximum Motor Length: 158 mm	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Minimum Holding Torque: 7 N-m	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Shaft/Gear Type: Harmonic Gear	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Gear Ratio (X:1): 50:1	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Minimal Backlash	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Max. Radial Load: 450N	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Max Momentary Torque: 350%	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Dust, Water, and Weather proofing compliant	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass
		Max. Operating Temperature: 80°C	ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder		Pass

(Total Amount in Words) 7 of 16

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Conforme: 

Signature over Printed Name of Supplier

Date: 11/07/23

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available: **JOHNNY G. QUINGCO**
Accountant IV
Chief Accountant

ALOBS No. 02-7086072023-10-001/01
Amount: 4,000,000.00 SDM/1990



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1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
Stepper Motor Drive:		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Type: Closed Loop		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Output Peak Current: 8A		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Input Voltage: 24VDC		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Communication: RS485 to Ethernet / Ethernet		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Inclusions:		AZD-KX-AZ Driver RS-485			Pass
Cables for Communication and Motor Controls		AZD-KX-AZ Driver RS-485			Pass
Electromagnetic Brake with Manual Release Coupling		AZD-KX-AZ Driver RS-485			Pass
6. (Camera Y) Closed Loop Stepper Motor with Motor Driver		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Motor Specifications:		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Voltage (VDC): 24.0		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Rated Current (A): 4.0		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Limit: 360 Degrees continuous (Clockwise/Counterclockwise)		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Encoder Type: Absolute (for Angle Position Retention)		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Frame Size: 60 mm (NEMA 24)		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Maximum Motor Length: 158 mm		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Minimum Holding Torque: 7 N-m		ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Shaft/Gear Type: Harmonic Gear		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Gear Ratio (X:1): 50:1		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Minimal Backlash		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max. Radial Load: 450N		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max Momentary Torque: 350%		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Dust, Water, and Weather proofing compliant		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Max. Operating Temperature: 80°C		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Stepper Motor Drive:		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Type: Closed Loop		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass

(Total Amount in Words) **8 of 16**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 
Signature over Printed Name of Supplier
Date: 11/15/23

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 20230204-000101
Amount: 4,000,000.00 23111970



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE


Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
Output Peak Current: 8A		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Input Voltage: 24VDC		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Communication: RS485 to Ethernet / Ethernet		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Inclusions:		AZD-KX-AZ Driver RS-485			Pass
Cables for Communication and Motor Controls		AZD-KX-AZ Driver RS-485			Pass
Electromagnetic Brake with Manual Release Coupling		AZD-KX-AZ Driver RS-485			Pass
7. (Cocking) Closed Loop Stepper Motor with Motor Driver		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Motor Specifications:		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Voltage (VDC): 24.0		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Rated Current (A): 4.0		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Limit: 360 Degrees continuous (Clockwise/Counterclockwise)		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Encoder Type: Absolute (for Angle Position Retention)		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Frame Size: 60 mm (NEMA 24)		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Maximum Motor Length: 132 mm		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Minimum Holding Torque: 9 N-m		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Shaft/Gear Type: Harmonic Planetary Gear		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Gear Ratio (X:1): 15:1		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Minimal Backlash		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Max. Radial Load: 450N		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Max Momentary Torque: 350%		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Dust, Water, and Weather proofing compliant		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Max. Operating Temperature: 80°C		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Stepper Motor Drive:		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Type: Closed Loop		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Output Peak Current: 8A		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass
Input Voltage: 24VDC		ZM66MK-HP15F, 60mm Stepper Motor	With Absolute	Mechanical Encoder	Pass

(Total Amount in Words) 9 of 16

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 
Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 07-2023-10-000101
Amount: 4,000,000.00 5021990



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

23-10-1070

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:


Please furnish this Office the following articles subject to the terms and conditions contained herein:

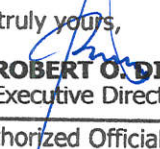
Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE


Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
Communication: RS485 to Ethernet / Ethernet		ZM66MK-HP15F, 60mm Stepper Motor With Absolute Mechanical Encoder			Pass
Inclusions:		AZD-KX-AZ Driver RS-485			Pass
Cables for Communication and Motor Controls		AZD-KX-AZ Driver RS-485			Pass
Electromagnetic Brake with Manual Release Coupling		AZD-KX-AZ Driver RS-485			Pass
8 Military Joystick Hand Controller (Gunner Control Handle Unit)		Apem Defense Ground Equipment			Pass
INPUT Voltage: 5-24VDC		Apem Defense Ground Equipment			Pass
Hardware and Software Integration using RS232/RS422/Ethernet/Microcontroller		Apem Defense Ground Equipment			Pass
8 bit System RCWS Gunner Control Handle Unit as the benchmark		Apem Defense Ground Equipment			Pass
Pedestal traverse motion operates by deflection to the right and left direction		Apem Defense Ground Equipment			Pass
Pedestal elevation motion operates by deflection upward and downward		Apem Defense Ground Equipment			Pass
With buttons and switches for each grip with following functions:		Apem Defense Ground Equipment			Pass
- Laser Range Finder Trigger		Apem Defense Ground Equipment			Pass
- Gun Trigger (covered initially to prevent unintended firing)		Apem Defense Ground Equipment			Pass
- Cocking Switch		Apem Defense Ground Equipment			Pass
- Target Locking		Apem Defense Ground Equipment			Pass
- FOV Switching		Apem Defense Ground Equipment			Pass
- Palm Switch (requirement for any pedestal action)		Apem Defense Ground Equipment			Pass
9. Joystick Mechanical Mounting with cable connectors		Apem Defense Ground Equipment			Pass
Joystick Controls Mechanical Mounting (Military Graded)		Apem Defense Ground Equipment			Pass
Connectors: USB/RJ45/RS232		Apem Defense Ground Equipment			Pass
10. Industrial Network Switch		Tripp Lite Industrial Network Switch			Pass
Nominal voltage: 24 V DC		Tripp Lite Industrial Network Switch			Pass
Element: Industrial Ethernet Switches		Tripp Lite Industrial Network Switch			Pass
Specification: Unmanaged		Tripp Lite Industrial Network Switch			Pass
Type of Ethernet: Full Gigabit Ethernet		Tripp Lite Industrial Network Switch			Pass
Total number of ports: 16 (RJ45-Ports)		Tripp Lite Industrial Network Switch			Pass

(Total Amount in Words) 10 of 16

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 
Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,

ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 17-296601-2023-10-000101
Amount: 4,000,000.00



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center,	Date: 23-Oct-23
Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23


Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD-ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE

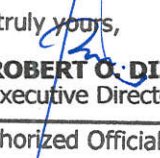
Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
Max Length: 27.3 mm		Tripp Lite Industrial Network Switch			Pass
Max Width: 120 mm		Tripp Lite Industrial Network Switch			Pass
Max Height: 113.5 mm		Tripp Lite Industrial Network Switch			Pass
11. Communication and Power Cables		Control Solutions Cable Assembly Manufacturing			Pass
Cable Specifications and Wiring Management are implemented to COBRA System in accordance with the MIL-HDBK-454B (General Guidelines for Electronic Equipment) – Guideline No. 69 – Internal Wiring Practices.		Control Solutions Cable Assembly Manufacturing			Pass
All works shall conform with the Philippine Electrical Code and Philippine Electronics Code.		Control Solutions Cable Assembly Manufacturing			Pass
12. 24 VDC Battery with UPS, Charger, and Monitoring System		Eaton UPS			Pass
INPUT: 24 VDC, 100Ah, LiPo battery		Eaton UPS			Pass
OUTPUT: 24 VDC		Eaton UPS			Pass
UPS: 6 mins backup time		Eaton UPS			Pass
Battery Monitoring System (BMS) Dashboard:		Eaton UPS			Pass
- With Digital Voltmeter		Eaton UPS			Pass
- With Emergency Button		Eaton UPS			Pass
- On/Off Switch		Eaton UPS			Pass
- Light Indicators for Low/High Voltage		Eaton UPS			Pass
- Light Indicators for Low/High Current		Eaton UPS			Pass
- 1pc Circuit Breaker 100A		Eaton UPS			Pass
Inclusion:		Eaton UPS			Pass
4 pcs Battery		Eaton UPS			Pass
1 pc UPS		Eaton UPS			Pass
1 unit BMS Dashboard (10-12 inches)		Eaton UPS			Pass
13. Industrial Type Push Buttons, Pilot Lamps, Switches		Apem Defense Ground Equipment			Pass
All Industrial Type Push Buttons, Pilot Lamps, Switches implemented to COBRA System must be compliant in accordance with the MIL-HDBK-454B (General Guidelines for Electronic Equipment)		Apem Defense Ground Equipment			Pass

(Total Amount in Words) 11 of 16


In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 

Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,

ROBERT O. DIZON
Executive Director

Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV

Chief Accountant

ALOBS No. 0203 02607-2023-10-00101
Amount: ₱ 4,000,000.00 23/11/23



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE

Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
14.		Gyroscope System for Image Stabilization			
		3-Axis Gyroscope for Gimbal System			
		High-Precision Inclinometer			
		Military-Grade Accelerometer with Digital Compass and Gyro			
		Inclusive of cables, communication systems such as:			
		RS485/RS422/RS232 to Ethernet converter			
15.		SDI to Ethernet Converter and SDI Cable (Day/Thermal)			
		Input Video: 1-channel SD /HD /3G SDI			
		Video Encoding: EVC /H.265, H.264 /AVC, MJPEG			
		Max. Video Resolution: 1920 x 1080 @ 60fps			
		Max Size Dimension: 130mm x 100mm x 30 mm			
		Dust, Water, and Weather proofing compliant			
		Input Voltage: 24VDC			
16.		Ethernet to 4 Port RS422 Converter			
		4 ports RS422/485			
		Max baud rate 1 Megabaud			
		Dust, Water, and Weather proofing compliant			
		LED status indication (Power and Comms Status)			
		Input Voltage: 5-30VDC			
17.		Microcontroller Integration			
		Microcontroller Unit for Joystick and Trigger Mechanism (Industrial Graded)			
18.		Trigger Mechanism - Electric Linear Solenoid with Relay Module			
		Input: 6 to 240VDC			
		Controlled via relay module through microcontroller			
		Minimum Stroke: 10 mm			
		Min. Holding force power off: 30 N			

(Total Amount in Words) *12 of 16*

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:
Signature over Printed Name of Supplier
Date: *11/30/23*

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available:
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. *07-03-00601-23-10-001/01*
Amount: *4,000,000.00* *07/1990*



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:


Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE


Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
		Dust, Water, and Weather proofing compliant			Pass
		19. Slip Ring			Pass
		With 23 Rings with the inclusion of the following:			Pass
		6 Rings 10A/Ring Power with 6-1 ² PVC wires			Pass
		12 Rings 5A/ring Signal with 12- 0.35 ² PVC wires			Pass
		4 Rings EtherCAT - CAT 5E with RJ45 M Connector			Pass
		1 ring shield			Pass
		Diameter: 118mm - 120mm			Pass
		Height: 118mm - 120mm			Pass
		Type: Through bore slip ring			Pass
		Min. Bore Diameter: 50mm			Pass
		Dust, Water, and Weather proofing compliant			Pass
		Voltage: 0-380VDC/VAC			Pass
		Mechanical Specifications:			Pass
		Speed: 0-500RPM			Pass
		Max Torque: 2 Nm			Pass
		20. Operator / Controller Chair			Pass
		Ergonomics for COBRA operations and fit when installed in APC			Pass
		21. Bore Sighter Laser (Heavy Duty)			Pass
		Designed and fitted for 0.50 Caliber Heavy Barrel Machine Gun's Bore			Pass
		Visible up to 600m range			Pass
		Aligning the line of sight of the Military Camera System with the bore (centerline) of the 0.50 Caliber Heavy Barrel Machine Gun.			Pass
		C. Software Requirements			Pass
		The Software Integration and Programming of Control System of the COBRA has the following detailed specifications:			Pass
		1. Military Joystick Integration			Pass

(Total Amount in Words) **13 of 16**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 
Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,
ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. 02308601-2023-10-000101
Amount: 4,000,000.00 50211990



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center,	Date: 23-Oct-23
Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE

Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Labor and Materials for the installation, integration, and programming of Controller Operated Battle Ready Armament Control System	1	4,000,000.00	4,000,000.00
		Install Communication, Integration, and Diagnostic (Maintenance) Tools, Software, and Protocol on HMI with Operating System			Pass
		Provide copy of Communication, Integration, and Diagnostic (Maintenance) Tools, Software, and Protocol to the end user			Pass
		Inclusion of Laptop (i7, 512GB SSD) with Communication, Integration, and Diagnostic Tools and Software (Maintenance)			Pass
		2. Closed Loop Stepper Motor Drive Software Development Kit (Traverse/Elevation/Cocking/Camera System)			Pass
		Install Communication, Integration, and Diagnostic (Maintenance) Tools, Software, and Protocol on HMI with Operating System			Pass
		Provide copy of Communication, Integration, and Diagnostic (Maintenance) Tools, Software, and Protocol to the end user			Pass
		Inclusion of Laptop (i7, 512GB SSD) with Communication, Integration, and Diagnostic Tools and Software (Maintenance)			Pass
		3. Gimbal System Integration using Gyroscope			Pass
		Integration of Gimbal System using Gyroscope for image stabilization by controlling the Camera System Closed Loop Stepper Motors (X and Y axis)			Pass
		4. Military Camera System Integration			Pass
		Integrated Military Camera System full functionality and operation			Pass
		D. Testing			Pass
		1. Testing for Integrated Military Camera System functions and features through the Gunner Control Handle Unit.			Pass
		2. Testing for the accuracy of position:			Pass

(Total Amount in Words) **14 of 16**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme:

Very truly yours,
ROBERT O. DIZON
Executive Director

Signature over Printed Name of Supplier
11/10/23
Date

Authorized Official

Funds Available:
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. **m.200601-2072-15-100401**
Amount: **4,000,000.00**



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center,	Date: 23-Oct-23
Tel No.: Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	P.R. No.: 23081389
TIN : 009-194-023-000	Date: 30-Aug-23

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE


Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Labor and Materials for the installation, integration, and programming of Controller Operated Battle Ready Armament Control System	1	4,000,000.00	4,000,000.00

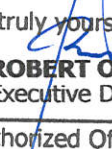
2. Testing for the accuracy of position:	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
a. No load	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
b. With load	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
3. COBRA System target detection, tracking, locking, and hitting test on the identified Armored Personnel Carrier using the following test protocol:	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
a. Stationary gun mount + stationary Target at gun effective range	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
b. Stationary gun mount + moving Target at gun effective range	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
c. Moving gun mount + stationary Target at gun effective range	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass
d. Moving gun mount + moving Target at gun effective range	Affidavit of Undertaking	to provide the software integration and programming control system of COBRA (Controller Operated Battle Ready Armament)	Pass

Amount	Schedule and Requirements
25%	50% completion of required work. Integrated the mechanical, Electrical, control system, instrumentation, Military Camera System and other peripherals.
	75% completion of required works.
	-Integrated the programming for the Computerized Target detection and tracking, Military Camera System Software and all other functionalities, Ballistic computer, Gyro System (True North).

(Total Amount in Words) *15 of 16*

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Conforme: 
Signature over Printed Name of Supplier
Date: *11/07/23*

Very truly yours,

ROBERT O. DIZON
Executive Director
Authorized Official

Funds Available:
JOHNNY G. QUINGCO
Accountant IV
Chief Accountant

ALOBS No. *021-308601-2023-10-880101*
Amount: *4,000,000.00* *50211990*



Republic of the Philippines
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
Gen. Santos Avenue, Bicutan, Taguig City
Tel. nos. 837-0431 to 38; Fax: 837-0430
TIN# 000-284-708

MBO

PURCHASE ORDER

Supplier: SAFER PH INNOVATIONS, INC.	P.O. No.: 23-10-1070
Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, Pasig City ; rex.sagge@safer.ph ; 9693120816/ 61 424353248	Date: 23-Oct-23
TIN : 009-194-023-000	P.R. No.: 23081389
	Date: 30-Aug-23

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services	Delivery Term: 210 CD ARNP
Date of Delivery: 210 calendar days after receipt of Notice to Proceed	Payment Term: LDDAP
Mode of Procurement: Public Bidding	VAT INCLUSIVE

Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	Supply of Labor and Materials for the installation, integration, and programming of Control System for the Project COBRA (Controller Operated Battle Ready Armament) Control System	1	4,000,000.00	4,000,000.00
50%		-Completed all the Functionality testing for the Integrated Mechanical, Electrical, Instrumentation, and Control System. Military Camera System with all the peripherals and Software Programs and features. -Completed the Measured Testing			
25%		100% Completion of required works. -Completed the installation of the fully functional integrated automated gun mount on the identified AVP of the Philippine Army at Camp O'Donelle Capas Tarlac City. - All source code, schematic, layout and other relative information used in the development and integration of the project will be provided to the project team.			
100%	Total				

MOBILIZATION FEE

The bidder shall, upon written request, be allowed to collect a mobilization fee in an amount not exceeding Fifteen percent (15%) of the total contract price.

The mobilization fee shall be made only upon submission to and acceptance by the MIRDC of an irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee, or a surety bond callable upon demand, issued by a surety or insurance company duly licensed by the Insurance Commission.

The bidder shall repay the mobilization fee by deducting an amount equal to the percentage of the total contract price used for the advance payment from each progress payment until the mobilization fee is fully liquidated.

RETENTION FEE

The total 5% retention fee shall be due for release one year after the issuance of Certificate of Final Acceptance.

All drawings must be approved by the MIRDC Project Team prior to fabrication.

- A. Delivery and installation of the COBRA must be maximum of 210 calendar days after receipt of Notice to Proceed.
- B. Delivery and installation of the unit will be on the identified Armor vehicle at Camp O'Donnell, Capas, Tarlac City.
- C. The commissioning phase shall include the testing of the functionality and compliance to the specifications and requirements of all the systems and components of the COBRA as indicated in this Terms of Reference.

All source code, schematic, layout, program and other relative information used in the development and integration of the project will be provided inside Two (2) USB copy and installed into a laptop provided by the project team

The winning bidder must provide a certificate of warranty to the COBRA against faulty materials, process and workmanship for a period of at least 1 year from date of acceptance.

TOTAL	4,000,000.00
Less: 5% GMP	(178,571.43)
2% EWT	(71,428.57)
5% RF	(200,000.00)

(Total Amount in Words) Three Million Five Hundred Fifty Thousand Pesos Only **3,550,000.00**

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

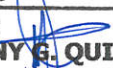
Conforme: 

Signature over Printed Name of Supplier
Date: 11/10/23

Very truly yours,

ROBERT O. DIZON
Executive Director

Authorized Official

Funds Available: 
JOHNNY G. QUINGCO
Accountant IV

Chief Accountant

ALOBS No. 23-10-1070
Amount: 3,550,000.00

BUDGET UTILIZATION REQUEST AND STATUS

METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
 MIRDC Compound, Gen. Santos Ave., Upper Bicutan, Taguig City

No. : 02-308601-2023-10-000101
 Date : 10/31/2023
 Fund : 07

Payee	SAFER PH INNOVATIONS INC
Office	
Address	

Responsibility Center	Particulars	MFO/PAP/KRA	UACS Code/ Expenditure	Amount
19-007-01-08-97 - COBRA	PO No. 23-10-1070 dated 10/23/23 as per PR No. 23081389 dated 08/30/23		5021199000	4,000,000.00
TOTAL				4,000,000.00

<p>A. Certified: Charges to appropriation/budget necessary, lawful and under my direct supervision, and supporting documents valid, proper and legal</p> <p>Signature : _____</p> <p>Printed Name : RODNELO O. TAMAYO</p> <p>Position : Project Leader</p> <p>Date : _____</p>	<p>B. Certified: Budget available and utilized for the purpose/adjustment necessary as indicated above.</p> <p>Signature : _____</p> <p>Printed Name: AGNES F. PEDRAZA</p> <p>Position : Head, Requesting Office/Authorized Representative</p> <p>Date : _____</p>
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C. STATUS OF UTILIZATION							
Reference			Amount				
Date	Particulars	BURS/JEV/RCI/RDAI No.	Utilization (a)	Payable (b)	Payment (c)	Balance	
						Not Yet Due (a-b)	Due and Demandable (b-c)
10/31/2023	BURS	02-308601-2023-10-000101	4,000,000.00				



THE PREMIER INSURANCE & SURETY CORPORATION

Room 301 Travellers Life Building,
490 T.M. Kalaw Street, Ermita, Manila 1000
Tel. Nos.: 8242-2163, 8242-2162, 8282-3645
Fax No.: 8243-0170
VAT REG. TIN: 001-006-578-000

PREMIUM	P	_____
DOC. STAMPS		_____
VAT		_____
NOT. FEES		_____
LGT		_____
MISC		_____
TOTAL	P	=====

SURETY BOND

KNOWN ALL MEN BY THIS PRESENTS:

SAFER PH INNOVATIONS, INC.

That we, **2309 One Corp. Ctr, Meralco Ave., Cor. J. Vargas Ave., Ortigas Center, Pasig City**..... as Principal, and **THE PREMIER INSURANCE & SURETY CORPORATION**, a corporation duly organized and existing under and by virtue of the laws of the Phillipines with principal office at Manila, as Surety, are held firmly bound unto the **DOST - METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER**..... of in the sum of of **ONE MILLION TWO HUNDRED PESOS**..... (P **1,200,000.00**.....) Philippine Currency for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATIONS ARE AS FOLLOWS:

WHEREAS, the above bounden principal, on the **17th** day of **October**, 20 **23** has entered into contract with **DOST-METALS INDUSTRY RESEARCH & DEVT. CTR** to fully and faithfully

WHEREAS, this bond is issued to ensure the full and faithful compliance of the above named, Principal of its obligations stated in the NOTICE OF AWARD for the "Procurement Of One Lot Supply Of Labor and Materials for the Installation, Integration and Programming Control System for the Controller Operated Battle Ready Armament Control System (PROJECT COBRA)" of the Metals Industry Research and Development Center, copy of which is hereto attached and made an integral part hereof; provided, however, that the liability of the herein Surety under this bond shall in no case exceed the sum of ONE MILLION TWO HUNDRED PESOS (Php1,200,000.00).

This Bond is Callable on Demand as per RA 9184 and shall remain valid until the issuance by the Procuring Entity of the Final Certificate of Acceptance.

CERTIFIED TRUE COPY

[Signature]
METALS INDUSTRY RESEARCH & DEVELOPMENT CENTER

WHEREAS, said contract requires said principal to give a good and sufficient bond in the above stated sum to secure the full and faithful performance on this part of said contract.

WHEREAS, the insurance company shall require the principal to put up a collateral as a condition precedent for the issuance of this bond.

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements stipulated in said contract then, this obligation shall be null and void, otherwise it shall remain in full force and effect.

The liability **THE PREMIER INSURANCE & SURETY CORPORATION** under this bond will expire on **October 17**, 20 **24**, and said bond will be cancelled 10 days after is expiration, unless Surety is notified of any existing obligations thereunder.

WITNESS OUR HANDS AND SEALS this **17th** day of **October**, 20 **23**, in Manila, Phillipines.



Republic of the Philippines

**DEPARTMENT OF SCIENCE AND TECHNOLOGY
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER**

NOTICE TO PROCEED

Oct. 12, 2023

LINDSEY REX B. SAGGE

President

SAFER PH INNOVATIONS, INC.

2309 One Corporate Center, Meralco Ave.

Cor J. Vargas Ave.,

Ortigas Center, Pasig City

Dear Mr. Sagge:

The attached Contract Agreement having been approved, notice is hereby given to SAFER PH INNOVATIONS, INC. that work may proceed on the project for the **“Procurement of One Lot Supply Of Labor And Materials For The Installation, Integration And Programming Of Control System For The Controller Operated Battle Ready Armament Control System (PROJECT COBRA)”** effective after Three (3) calendar days from receipt of this Notice to Proceed. Upon receipt of this notice, you are responsible for performing the services under the terms and conditions of the Agreement and in accordance with the Implementation Schedule.

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. Keep one copy and return the other to Metals Industry Research and Development Center.

Very truly yours,


ROBERT O. DIZON
Executive Director

I acknowledge receipt of this Notice on OCTOBER 31, 2023 (date of receipt)

Name of Bidder's Representative: PHOEBE JOY BANDEJAS

Authorized Signature: 

CONTRACT AGREEMENT

THIS AGREEMENT made this 17th day of October 2023 between **METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER** of the Philippines (hereinafter called “the Entity”) of the one part and **SAFER PH INNOVATIONS, INC.** of Pasig City, Philippines (hereinafter called “the Supplier”) of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly “**Procurement of One Lot Supply of Labor and Materials for the Installation , Integration and Programming of Control System for the Controller Operated Battle Ready Armament Control System (Project Cobra)**” and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of **Four Million Pesos only (Php4,000,000.00)** (hereinafter called “the Contract Price”).

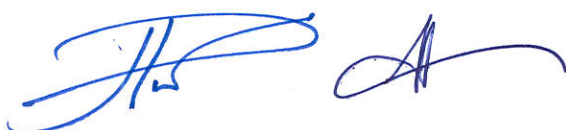

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:

- i. Philippine Bidding Documents (PBDs);
 - i. Schedule of Requirements;
 - ii. Technical Specifications;
 - iii. General and Special Conditions of Contract; and
 - iv. Supplemental or Bid Bulletins, if any
- ii. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;

- iii. Performance Security;
- iv. Notice of Award of Contract; and the Bidder’s conforme thereto; and
- v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**



3. In consideration for the sum of **Four Million Pesos only (Php4,000,000.00)** or such other sums as may be ascertained, **SAFER PH INNOVATIONS, INC.** in accordance with his/her/its Bid.
4. The Metals Industry Research and Development Center agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

Binding Signature of Procuring Entity:



ROBERT O. DIZON
Executive Director



JONATHAN Q. PUERTO
Witness

Binding Signature of Supplier:



LINDSEY REX B. SAGGE
President and CEO



PHOEBE JOY S. BANDEJAS
Witness

Certified Funds Available



JOHNNY G. QUINGCO
Accountant IV

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
CITY OF PASIG CITY) S.S.

Before me, a Notary Public for and in the PASIG CITY this
OCT 27 2023 2023, personally appeared:

NAME	I.D. NO.	DATE/PLACE ISSUED
	Passport	
ROBERT O. DIZON	P4453911B	DFA, NCR East/Jan. 20, 2020


LINDSEY REX B. SAGGE

all known to me to be the same persons who executed the foregoing instrument and they acknowledged to me that the same is their free act and deed as well as of the principal they represent.

This instrument refers to **Supplier's** Agreement consisting of three (3) pages, including this page in which the Acknowledgment is written, signed by the parties and their witnesses on each and every page and sealed with my notarial seal.

WITNESS MY HAND AND SEAL on the date and place above written.

Doc No. 160 ;
Page No. 33 ;
Page No. X ;
Series of 2023.


ATTY. MARY GRACE L. ORTEGA
Appointment No. 53 (2022-2023)
Notary Public for Pasig City
PTR No. 853442/5-23-2022/PASIG CITY
IBP No. 223932/5-23-2022/RSM CHAPTER
Roll of Attorneys No. 80555/5-19-2022
MCLE Comp. EXEMPTED/Newly Admitted
Commission until December 31, 2023
15 Jenny's Avenue, Maybunga, Pasig City



NOTICE OF AWARD

Oct. 11, 2023

LINDSEY REX B. SAGGE

President
SAFER PH INNOVATIONS, INC.
2309 One Corporate Center, Meralco Ave.
Cor J. Vargas Ave.,
Ortigas Center, Pasig City

Dear Mr. Sagge:

You are advised that the Purchase Order for the **“Procurement Of One Lot Supply Of Labor And Materials for the Installation , Integration and Programming of Control System for the Controller Operated Battle Ready Armament Control System (PROJECT COBRA)”** of the Metals Industry Research and Development Center has been awarded to your firm in the amount of Four Million Pesos only (**Php4,000,000.00**), subject to the approval of the concerned authorities.

You are therefore requested to accept the award in writing within ten (10) calendar days from receipt hereof and post a performance security according to the following schedule:

- a. Cash, Manager's check or Cashier's check – 5% of the total contract price;
- b. Bank Guarantee/ Draft/ Irrevocable Letter of Credit – 5% of the total contract price;
- c. Surety Bond, callable on demand, valid for one year, issued by the Office of the Insurance Commissioner, or any combination thereof – 30% of the total contract price.

Thank you.

Rec'd by  Lindsey Rex Sagge 10/14/23

Very truly yours,


ROBERT O. DIZON
Executive Director

**BAC RESOLUTION DECLARING NOTICE OF AWARD AND
RECOMMENDING FOR APPROVAL**

R E S O L U T I O N N O . 2 0 2 3 - 0 1 5

**Project: Procurement Of One Lot Supply Of Labor And Materials For The Installation ,
Integration And Programming Of Control System For The Controller Operated
Battle Ready Armament Control System (Project COBRA)**

Approved Budget for the Contract (ABC): Php4,000,000.00

Pre-procurement Conference: Aug. 30,2023; 1:00PM

Pre-bid Conference: September 13, 2023; 9:00AM

Opening of Bids: September 26,2023; 9:30AM

Whereas, the **Metals Industry Research and Development Center (MIRDC)** posted the Invitation to Bid for the above project on Sept. 6,2023 in the Philippine Government Electronic Procurement System (PhilGEPS), Metals Industry Research and Development Center (MIRDC) website, its social media platform, and at conspicuous places in MIRDC Bicutan continuously for 20 days;

Whereas, a pre-bid conference was conducted on Sept. 13,2023 at 9:00 am which was attended by the following bidders: - **INZPECT TECHNOLOGIES INC, DEUZ AUTOMATION, ADVANCED SECURITY AND DETECTION SYSTEM and SAFER PH INNOVATIONS, INC;**

Whereas, in response to the said invitation, **SAFER PH and INZPECT TECHNOLOGIES INC.** signified their intention to join the bidding and subsequently purchased the bidding documents;

Whereas, **SAFER PH** submitted its bid physically during the bid opening while **INZPECT** submitted its bid electronically thru a password-protected file during the Bid opening on Sept 26,2023 at the Mercury Conference Room, 3rd Floor, Gold Building, MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City;

Whereas, due to late submission of the bid proposal of **INZPECT TECHNOLOGIES**, the BAC did not accept the bid of the said bidder;

Whereas, **SAFER PH.** was determined to be eligible having complied with all the required documents. Hence, the BAC proceeded to open their financial proposals;

Whereas, the bid offer of **SAFER PH** as read is **Php4,000,000.00;**

Whereas, **SAFER PH.** being the lone bidder was scheduled for post-qualification;

Whereas, after verifying, validating and ascertaining its documents, **SAFER PH** passed all the criteria for post-qualification;

Whereas, Sec 36 (a) of the 2016 Revised Implementing Rules and Regulations of RA 9184 states:

“A Single Calculated and Responsive Bid (SCRB) shall be considered for award if...

(a) “If after advertisement, only one prospective bidder applies for eligibility check, in accordance with the provisions of this IRR, and it meets the eligibility requirements or criteria, after which it submits a bid which is found to be responsive to the bidding requirements;”

RESOLVED, as it is hereby resolved, pursuant to Section 53 of R.A. 9184, to declare SAFER PH INNOVATIONS INC. as the Single Calculated and Responsive Bidder and to recommend the award of contract to said bidder at its submitted/ calculated bid price.

RESOLVED, at Taguig City this 10th of OCTOBER 2023 .


RODNELO O. TAMAYO
BAC Chair


ZALDA R. GAYAHAN
BAC Member

ISIDRO D. MILLO
BAC Member


MARICEL M. TEOGANGCO
TWG Member


ATTY. TRIXIE HAZEL C. VELUZ
BAC Vice Chair


ROMMEL N. CORONA
BAC Member


PABLO Q. ACUIN
TWG Member


JONATHAN Q. PUERTO
TWG Member

Approved (✓) / Disapproved ()


ROBERT O. DIZON
Executive Director

Approved on 10/10/23