



METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

Gen. Santos Avenue, Bicutan, Taquiq City Tel. nos. 837-0431 to 38; Fax; 837-0430

OCT 31

TELA 01:50

MIRDC - FAD - FMS

TIN# 000-284-708

PURCHASE ORDER Supplier: SAFER PH INNOVATIONS, INC. 23-10-1070 P.O. No.: Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, 23-Oct-23 Date: Tel No.: Pasig City; rex.sagge@safer.ph; 9693120816/ 61 424353248 23081389 P.R. No.: 009-194-023-000 TIN 30-Aug-23 Date: Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of DelREPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services | Delivery Term: 210 CD ARNP 210 calendar days after receipt of Notice to Proceed Date of Delivery: LDDAP Payment Term

Mode of	Procuremen	t: Public Bidding		VAT INCLUSIVE				
Item No.	Unit	Description		Quantity	Unit Cost	Ar	nount	
1	lot	Supply of Labor and Materials for the		1 4	000,000.00	4,00	0.000.0	
	1	programming of Control System for	the Project COBRA (Controller		1			
		Operated Battle Ready Arma	ment) Control System		1			
				La como de	1		MIRD	
	Technical Sp	ecifications by End-User (MIRDC)	Supplier's Of	fer and Compl	iance		Evaluat	
							n(Pass/	
A.Scope of				of Undertakin				
		ontroller Operated Battle Ready	to provide scope of work for t		1 1	e Ready	Pass	
		trol System are as follows:		BRA) Control				
	The state of the s	rials, and equipment necessary for the	The state of the s	of Undertakin				
		tion and integration to mechanical	to provide scope of work for t			e Ready	Pass	
system. Th	ese include	he following:		BRA) Control				
			Affidavit	of Undertakin	g			
a. Indu:	strial Human	Machine Interface with Operating System	to provide scope of work for t	he Controller	Operated Batt	e Ready	Pass	
			Armament (CC	BRA) Control	System			
			Affidavit	of Undertakin	g			
o. Indu:	strial HMI M	tal Mechanical Mounting and Housing	to provide scope of work for t	he Controller	Operated Batt	e Ready	Pass	
			Armament (CC	BRA) Control	System			
			Affidavit	of Undertakin	g			
. (Trav	erse) Closed	Loop Stepper Motor with Motor Driver	to provide scope of work for t	he Controller	Operated Battle	e Ready	Pass	
			Armament (CC	BRA) Control	System			
4 /51-			Affidavit	of Undertakin	g			
		d Loop Stepper Motor with Motor Driver	to provide scope of work for	he Controller	Operated Batt	e Ready	Pass	
and brake	with Manua	Release		DBRA) Control				
				of Undertakin				
e. (Cam	era X) Closed	Loop Stepper Motor with Motor Driver	to provide scope of work for	CONTRACTOR DESCRIPTION OF CONTRACTOR	_	e Ready	Pass	
			and the second s	DBRA) Control				
				of Undertakin				
f. (Can	nera Y) Close	d Loop Stepper Motor with Motor Driver	to provide scope of work for		-	e Ready	Pass	
			1 22	DBRA) Control		c neddy		
	1			of Undertakin				
z. (Cock	ing) Closed	oop Stepper Motor with Motor Driver	to provide scope of work for			a Dandy	Pass	
	1	The stapper motor that motor brives	1	DBRA) Control		e neauy	Fass	
			Affidavit	of Undertakin				
	tary Joystick	Hand Controller (Gunner Control Handle	to provide scope of work for			n Dande	Pass	
Unit)				DBRA) Control	The state of the s	e Ready	Pass	
love	tick Machani	cal Mounting with cable connectors	1	of Undertakin			_	
. 10ys	CK WECHON	car wounting with cable connectors	to provide scope of work for			е кеаду	Pass	
				DBRA) Control				
. James Lander	strial Netwo	als Southank		of Undertakin				
. Indu	au lai Netwo	rk Switch	to provide scope of work for			e Ready	Pass	
	-			DBRA) Control				
			The same of the sa	of Undertakin				
c. Comr	nunication C	ables	to provide scope of work for	the Controller	Operated Battle	e Ready	Pass	
				OBRA) Control				

(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:

Bandesma Signature over Printed Name of Supplier

Date

Funds Available: JOHNNY G. QUINGCO

Accountant IV

Chief Accountant

Very truly yours

ROBERT O. DIZON **Executive Director**

Authorized Official

ALOBS No. Amount: 4.000



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

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PU		$H \supset$	CU			CK

Date Funds Available

JOHNNY G. QUINGCO Accountant IV

Chief Accountant

W	9	100		OILDEIL					
Sup	ilgo	er:	SAFER P	PH INNOVATIONS, INC.		P.O. No.:	23-1	0-107	0
Add			2309 One	Corporate Center, Meralco Ave. Cor J. Va	rgas Ave., Ortigas Center,	Date:	23-	Oct-23	
CONTRACTOR OF THE PARTY OF	No	Name of Street	Pasig City	; rex.sagge@safer.ph; 9693120816/ 61	424353248	-	230	81389	
				009-194-023-000		P.R. No.:		Aug-23	
TIN	4	:		009-194-023-000		Date:	30-	Aug-23	,
Ge	ntle	me	en:						
	Plea	ase	furnish this	s Office the following articles subject to	the terms and conditions	contained he	erein.		
Dla	20.0	f D	PROPER	TY MGMT UNIT FOR ODED-TS/COBRA/O	ther Professional Services	Delivery Te		CD AR	NP
-	-	_		210 calendar days after receipt of			1 PA. 191	AD	
	THE RESERVE		elivery:		Notice to Proceed	Payment To			CTIVE
	Series -	Section 12 Section 2	rocuremen				VAI	INCLU	SIAE
Ite	-	0.	Unit	Description		Quantity	Unit Cost		nount
	1		lot	Supply of Labor and Materials for the		1 2	,000,000.00	4,0	00,000.00
				programming of Control System for th				ĺ	
				Operated Battle Ready Armam				l	
	ı.	2.4	VDC Batter	with UPS, Charger, and Monitoring System	to provide scope of work for	t of Undertakir		a Pandy	Pass
		24	VUC Battery	with OF3, Charger, and Monitoring System		OBRA) Control		e Ready	F655
						of Undertakir			
	m.	Inc	ustrial Type	Push Buttons, Pilot Lamps, Switches	to provide scope of work for	the Controller	Operated Battl	e Ready	Pass
					Armament (C	OBRA) Control	System		
					Constitution to the second sec	of Undertakir			-
	n.	Gy	roscope Syst	em for Image Stabilization	to provide scope of work for	1	1 33	e Ready	Pass
						DBRA) Control of Undertakir			
	0.	SD	to Ethernet	Converter and SDI Cable (Day/Thermal)	to provide scope of work for		-	e Ready	Pass
					CONTROL OF THE PROPERTY OF THE	OBRA) Control			
					Affidavi	t of Undertakir	g		
	p.	Eth	ernet to 4 P	ort RS422 Converter	to provide scope of work for			e Ready	Pass
-						OBRA) Control			
		Microcontroller Integration to provide scope of work for the	t of Undertakir						
	q.	TO 1	crocontrolle	rintegration	(3)	OBRA) Control	1	е кеаду	Pass
						t of Undertakir			
	г.		igger Mech	nism - Electric Linear Solenoid with Relay	to provide scope of work for		_	e Ready	Pass
	Mod	dule			Armament (C	OBRA) Control	System		
					The same of the sa	t of Undertakin	The second second second second		
	5.	Sli	Ring		to provide scope of work for		Charles and the second services of the second services of	e Ready	Pass
104						OBRA) Control t of Undertakin			
	t.	C	ntrol / Wiri	ng Parts	to provide scope of work for			e Ready	Pass
					137	OBRA) Control		c neddy	, 033
53						t of Undertakii			
	u.	Op	erator / Con	troller Chair	to provide scope of work for	the Controller	Operated Batt	e Ready	Pass
						OBRA) Control			
						t of Undertaki	TO 100 TO		
	V.	Во	re Sighter La	ser (Heavy Duty)	to provide scope of work for			e Ready	Pass
- 5	2 51	inni	of labor of	aterial, and equipment necessary for the		OBRA) Control t of Undertakii			1
				gn and programming. These include the	to provide scope of work for			e Ready	Pass
	follo	- 01	N 53			OBRA) Control			
1. 1. 19						t of Undertaki			
	а.	M	litary Joysti	ck Integration	to provide scope of work for	the Controller	Operated Batt	e Ready	Pass
					Armament (C	OBRA) Control	System		
				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		t of Undertakii			
	b.	M	litary Came	ra System Integration	to provide scope of work for	Control of the second s	The state of the s	le Ready	Pass
/Tot	21 A	lna	unt in Wor	(do)	1 Armament IC	OBRA) Control	Svstem		
and the same of th	CARDON SALES	WHEN STREET							
	In c	ase	of failure	to make the full delivery within the time	specified above, a penalty	of one-tent	h (1/10) of o	ne nerce	ent
for e	eve	v d	ay of delay	shall be imposed.		3. 3. 9	(2/20/010	in perce	J1 16
		, -	_,)	se irrpector	17				
					very t	ruly yours,			
C	£		10		•	CK.	DIZON		
Con	IOT	ne:	ALL			ROBERTO			
		1	VIT I			Executive Dire	ector		
			-	3	Airt	horized Offic	ial	Telephone Control of the Control of	
Sian	atu	re c	ver Printed	Name of Supplier	Aut		-		

ALOBS No.

Amount: //

P.O. No. 23-10-1070

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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

		FORCHASE ORDER							
	Supplier:	SAFER P	H INNOVATIONS, INC.			P.O. No.:	23-1	0-1	070
-	Address:	2309 One	Corporate Center, Meralco Ave. Cor .	J. Vargas Ave.,	Ortigas Center,	Date:	23-0	Oct-	-23
	Tel No.:	Pasig City	; rex.sagge@safer.ph; 9693120816	61 424353248	3	P.R. No.:	230	813	889
	TIN :		009-194-023-000			Date:	30-/	QUA	-23
-	Gentleme	n'				Date.			
			- Office the fellow to a state of the						
	Please	rurnish thi	s Office the following articles subject	ct to the terms	and conditions			-	ADMD
	Name and Part and Par		TY MGMT UNIT FOR ODED-TS/COBR			Delivery Te	1111.		ARNP
	Date of De		210 calendar days after receip	t of Notice to	Proceed	Payment Te			
			t: Public Bidding				VAT	INC	LUSIVE
	Item No.	Unit	Descript			Quantity	Unit Cost		Amount
	1	lot	Supply of Labor and Materials for			1 4	,000,000.00		4,000,000.00
			programming of Control System (Operated Battle Ready Ar					1	
-			operates battle recally A	mament, contro					
-	Gimbal Sv	stem Integra	ation using Gyroscope	to provide scope	Affidavit of U of work for the C		ated Battle Re	adv	Pass
				The second secon	Armament (COBRA		Contract of the Contract of th		
d	Closed Lo	op Stepper	Motor Drive Software Development Kit		Affidavit of U				
1			ng/Camera System)		of work for the C Armament (COBRA		1	ady	Pass
	Integration	and Insta	lation of COBRA Control System to	haanaan maanaa ahaan maanaa ahaa	Affidavit of U				
9	lentified Armo	1	A STATE OF THE STA	The property of the second sec	e of work for the C	And the second second second second second	A CONTRACTOR CONTRACTO	edy	Pass
1					Armament (COBRA Affidavit of U		m	-	
4	The state of the s		involved personnel of Project COBRA	to provide scope	e of work for the C	Control of the second of the s	ated Battle Re	ady	Pass
9			mming of the COBRA Control System.		Armament (COBRA		m		
5			eventive, and corrective maintenance	to occuido como	Affidavit of U		ated Pattle De	n elve	Dage
- 1	itegration of		nd hardware devices supplied for the rol System.	CONTRACTOR OF THE PROPERTY OF	Armament (COBRA	Continues and a second second		ady	Pass
В	Detailed Spe	cifications		1	Vartech Customize	ed HMI (Sitesh	ot)		
- 1	ne Control Sy: pecifications:	stem of the (OBRA has the following detailed	The HMI will be	customized amd r		ed on the requ	ired	Pass
1	secifications,			,	specific		ot)		
1	Industrial H	uman Mach	ne Interface with Operating System	The HMI will be	customized amd r	uggedized bas	ed on the requ	ired	Pass
+					specific				
4	ideo Ports: V	A and Disp	ayPort (DP)	Contract and an arrangement of the second of	Vartech Customize customized amd r		The state of the s	ired	Pass
j					specific	A CONTRACTOR OF THE PARTY OF TH	-		
					Vartech Customize customized amd r				Pass
1	Juchscreen	ype. 3-wire a	analog resistive	The Hivil will be	specific		ed on the requ	irea	Pass
1				,	Vartech Customiz		ot)		
R	S-232 Ports: 3	-4 ports		The HMI will be	customized amd r	A STATE OF THE STA	ed on the requ	ired	Pass
1				,	specific		ot)	-	
4	SB 2.0 Ports:	2 ports (Typ	e A)		customized amd		1	ired	Pass
1					specific				
J	SB 3.0 Ports:	2 ports (Typ	e A)	Control of the contro	Vartech Customiz customized amd r	CALL CALL CONTRACT STREET, SALES OF STRE	100 mg	ired	Pass
					specific				
1					Vartech Customiz				
1	thernet Ports	3-5 ports (U4>)	ine HMI will be	customized amd specifi		ed on the requ	ired	Pass
İ				- 1	Vartech Customiz		ot)		
9	isplay Type:	(GA TFT LED	LCD	The HMI will be	customized amd		ed on the requ	ired	Pass
ł	(Total Auso		4.		specifi	ation.			
-	(Total Amo	-	, , , , , , , , , , , , , , , , , , , ,	f 16					
1	In case	of failure	to make the full delivery within the	time specified a	above, a penalty	of one-tenth	1 (1/10) of or	ne n	ercent
I	for every d	ay of delay	shall be imposed.	•	, , , , , , , ,	/	. (2/20/0.0.	.с р	Ci CCi ic
١			· ·		Very t	ruly yours,			
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AMERICA	//	111	`		E	xecutive Dire	ctor		
		(Δınti	norized Offici	al		
Distribute.	Signature o	ver Printed	Name of Supplier		Add	JULIEU OIIICI	ui		
-		[10]							
-		Date				1			
I	Funds Avail	able:				·			
			QUINGCO			_ /	y		
Constant.	50	Accounta	(1985년) 11일 : 12일 : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[12] : 12[1		ALOBS No. 5 Amount: 7 4	2-300 (a)	- 70V7-28	9-1	00/01
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Ĺ	CONTRACTOR OF THE PERSON NAMED IN COLUMN NAMED		at rout It		ranount. 7 4	100,000	. 1 ,50	111	110



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

		SupplierSAFER PH INNOVATIONS, INC.					P.O. No.: 23-10-1070				
	PRINCIPAL CHARGE STATE VALUE OF THE PARTY.		Corporate Center, Meralco Ave. Cor	753		Date:	23-0	Oct-2	3		
	Tel No.: F	Pasig City;	rex.sagge@safer.ph; 9693120816	61 424353248		P.R. No.:	230	8138	9		
	TIN :		009-194-023-000			Date:	30-A	lug-2	3		
	Gentleme	en:				T Dutc.					
	Please	furnish thi	is Office the following articles subj	ect to the term	s and conditions	contained h	oroin:				
	Place of D	EROPERT	MGMT UNIT FOR ODED-TS/COBR	A/Other Profes	sional Services		340	CD A	RNP		
	Date of D		210 calendar days after receip			Delivery Te		AP			
	the same particular and the same of the sa	THE RESERVE AND PARTY AND PERSONS ASSESSED.	tPublic Bidding			Payment T	erm		USIVE		
	Item No.	Unit	Descrip	otion		Quantity	Unit Cost	T-	Amount		
	1	lot	Supply of Labor and Materials for	사람들은 아이를 가지 않는데 하는데 하는데 되었다.	경영화 경영화 다양 시작하다 하나 아이들은 생각	1 4,	00,000.00	4,	Amount		
			programming of Control System f					1			
			Operated Battle Ready Ar		ı System Vartech Customize	ed HMI (Sitesh	ot)	1			
lax	. Resolution:	1024 x 768	3	The HMI will be	customized amd r		ed on the requ	uired	Pass		
-		-			specific Vartech Customize		41	+			
isp	lay Size: 12.:	ļ.,		i	customized amd r		1	uired	Pass		
					specific		L	\perp			
ro	:essor: Intel (Core i9 11th	Generation	ł	Vartech Customize customized amd r			uired	Pass		
					specific						
	1. 22CB			I	Vartech Customize						
Alv	1: 32GB			the Hivil Will be	customized amd r specific		ed on the regi	uirea	Pass		
				1	Vartech Customize				-		
tor	age: 500GB S	SD	~	The HMI will be	customized amd r specific		ed on the requ	uired	Pass		
					Vartech Customize		ot)				
Pe	rating System	n: Windows	10 Enterprise	The HMI will be	customized amd r	1200000	ed on the req	uired	Pass		
-					specific Vartech Customiz		ot)	\vdash			
Ov	ver Supply: 9-	36V DC		1	customized amd r			uired	Pass		
4					specific				-		
vi	i 6 enabled			A STATE OF THE STA	Vartech Customize customized amd r			uired	Pass		
					specific						
		g installed	with Push buttons for settings		Vartech Customiz		The state of the s		D		
nok	difications			the nivit will be	customized amd i		ed on the req	uirea	Pass		
		_		The second secon	Vartech Customiz		The state of the s				
- 1	ndustrial HM	I Metal Med	hanical Mounting and Housing	The HMI will be	customized amd a specifi		ed on the req	uired	Pass		
1					Vartech Customiz		ot)		Mary Trans.		
1et	al Enclosure	for HMI (M	ilitary Graded)	The HMI will be	customized amd		ed on the req	uired	Pass		
1		-			specifi Vartech Customiz		ot)				
	n Push Butto nt application		igs Modifications (with lights for	The HMI will be	customized amd	uggedized bas	ed on the req	uired	Pass		
7					specifi	cation.			,		
vit	h Switches fo	or safety inc	ludes the following function:	Contractor sections	Vartech Customiz customized amd	The state of the s		uired	Pass		
4					specifi						
1	/Gur-Ineble	und to 186		The Miles of Line	Vartech Customiz	Contraction of the Contraction o					
1	(Potaframo								Pass		
1	In case	of failure t	to make the full delivery within the	time specified	above, a penalty	of one-tenth	(1/10) of or	20 120	roont		
	for every da	ay of delay	shall be imposed.		, , , , ,	or orioterier	(1/10) 01 01	ie pei	rcent		
1					Very to	ruly yours,					
l	Conforme:	~ 10	_		_	Cha	-701				
	2	10				COUNTY OF THE CO					
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	Signature of	ven Printed	Name of Supplier		Auth	orized Officia	al				
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L	The second second	Date									
11	Funds Availa										
1	JOF	INNY G. C	UINGCO					_			
1.		Accountan			ALOBS No.	7-40766	1-7077-1	U-0	00/01		
L	<u>C</u>	hief Accou	ntant		Amount:	1,000,000		71/	770		
			and the second of the second o			1, 0, 1, 0,		2	3-10-1070		
							P.O. No.).			



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

Chief Accountant

Supplier	Supplier SAFER PH INNOVATIONS, INC. 23-10-1070							
		Corporate Center, Meralco Ave. Cor	1. Vargas Ave. (Ortigas Center.	P.O. No.:	23-0		
-		rex.sagge@safer.ph; 9693120816			Date:	2308		
10111011	usig city ,	009-194-023-000	7 01 12 13332 10		P.R. No.:			
TIN :		009-194-023-000			Date:	30-A	ug-	23
Gentleme								
Please	furnish thi	is Office the following articles subje	ect to the terms	and conditions	contained he			
Place of D	PROPERT	Y MGMT UNIT FOR ODED-TS/COBR	A/Other Profess	sional Services	Delivery Te	rm: 210 (CD /	IRNP
Date of De		210 calendar days after receip	ot of Notice to	Proceed	Payment Te	erm LDDA	P	
Mode of P	rocuremer	nt Public Bidding					INC	LUSIVE
Item No.	Unit	Descrip	otion		Quantity	Unit Cost	Г	Amount
1	lot	Supply of Labor and Materials for			1 4,0	00,000.00	1	4,000,000.00
		programming of Control System Operated Battle Ready A						
				Vartech Customize				
On/Off St	vitching		The HMI will be	customized amd r specific		d on the requi	red	Pass
-	-			Vartech Customize		at)	\vdash	
Safety Sw	tching		The HMI will be	customized amd r	uggedized base	d on the requi	red	Pass
<u> </u>			ļ	specific			\vdash	
Arm Swite	dhine		Acres and the second se	Vartech Customize customized amd r			red	Pass
				specific				
			1	Vartech Customize				
Override	Switching		The HMI will be	customized amd r specific		d on the requi	red	Pass
			<u> </u>	Vartech Customize		ot)	H	
Emergeno	y Cut Off			customized amd r		The state of the s	red	Pass
				specific				
HMI Swit	ch Operatio	l ngic	1	Vartech Customize customized amd r			red	Pass
111011 30010	Operatio	Logic	The filth will be	specific		d on the requ		. 033
3. (Traverse) C	losed Loop	Stepper Motor with Motor Driver	ZM66MK-HP15F	, 60mm Stepper N Enco		olute Mechani	cal	Pass
Motor Specific	ations:		ZM66MK-HP15F	, 60mm Stepper N		olute Mechan	cal	Pass
voltage (VDC):	24.0		ZM66MK-HP15F	Enco F, 60mm Stepper N Enco	lotor With Abs	olute Mechan	cal	Pass
Rated Current	(0): 00		ZM66MK-HP15F	, 60mm Stepper N		olute Mechan	cal	Pass
kated Current	(A). 4.0		78455842 4015	Enco F, 60mm Stepper N		- l h - 3 d h	1	F 455
		ous (Clockwise/Counterclockwise)		Enco Enco F, 60mm Stepper N	der			Pass
ncoder Type:	Absolute (fo	r Angle Position Retention)	2.0000000000000000000000000000000000000	Enco				Pass
Frame Size: 60	mm (NEMA	24)	ZM66MK-HP15F	, 60mm Stepper N		olute Mechan	ical	Pass
			7M66MK-HP156	Enco F, 60mm Stepper N		olute Mechan	ical	
Maximum Mo	tor Length: 1	32 mm	Liviouni III 25	Enco		ordic meeridi.		Pass
Minimum Hol	ding Torque	9 N·m	ZM66MK-HP15F	F, 60mm Stepper N		olute Mechan	ical	Pass
			ZM66MK-HP156	Enco F, 60mm Stepper N		olute Mechan	ical	
Shaft/Gear Ty	pe: Harmoni	c Planetary Gear		Enco				Pass
Gear Ratio (X:	1): 15:1		ZM66MK-HP15F	F, 60mm Stepper N		olute Mechan	ical	Pass
Minimal Back	lash		ZM66MK-HP15	Enco F, 60mm Stepper N		olute Mechan	ical	Pass
(Total Amo		rde) 5	616	Enco	der			
-			of 16	-				
In case	of failure	to make the full delivery within the	time specified a	above, a penalty	of one-tenth	1 (1/10) of or	ne p	ercent
for every d	ay of delay	y shall be imposed.		10 10 10	/		-	
				Verv t	ruly yours,			
				,	12			
Conforme:	~ 1				OBERTOOD			
	/ DAY			E	kecutive Direc	tor		
	/			Διπ	horized Offici	al		
Signature of	yer Printer	d Name of Supplier		Add	TOPIZEU OTTICI	ui		
	110/23				1			
	Date				I .			
Funds Avail	-							
		QUINGCO			7			
30	Accountant IV ALOBS No. 17/3 & 601-222-13-600/07							

Amount: 14,000,000.



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.: 23-10-10/0			
				Cor J. Vargas Ave., Ortigas Center,	Date:	23-0	ct-23	
	Tel No.: P	asig City;	rex.sagge@safer.ph; 969312	0816/ 61 424353248	P.R. No.:	2308		
	TIN :		009-194-023-000		Date:	30-A	ıg-23	
	Gentleme	en:			0			
	Please	furnish thi	is Office the following articles	subject to the terms and conditions	contained he			
	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,			COBRA/Other Professional Services	Delivery Te	rm: 210 C	DARNP	
	Date of De			eceipt of Notice to Proceed	Payment Te			
			Public Bidding			VALI	NCLUSIVE	
	Item No.	Unit lot		escription als for the installation, integration, and	Quantity	Unit Cost	Amount 4,000,000.00	
	1	100	programming of Control Sys	stem for the Project COBRA (Controller	2 40	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4,000,000,00	
Max.	Radial Load: 4	50N		ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Max	Momentary To	rque: 350%		ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Dust,	Water, and W	eather proo	fing compliant	ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Max.	Operating Ten	nperature: 8	o.c ,	ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	thanical Encod	er Pass	
Stepp	er Motor Driv	e:		ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Type:	Closed Loop			ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Outp	ut Peak Currer	t: 8A		ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	hanical Encod	er Pass	
Input	Voltage: 24VI	С		ZM66MK-HP15F, 60mm Stepper Motor Wit	h Absolute Med	chanical Encod	er Pass	
Comr	nunication: RS	485 to Ether	net / Ethernet	ZM66MK-HP15F, 60mm Stepper Motor Wi	h Absolute Me	chanical Encod	er Pass	
Inclus	ions:			AZD-KX-AZ Driver	RS-485		Pass	
Cable	s for Commun	ication and	Motor Controls	AZD-KX-AZ Driver	RS-485		Pass	
			nual Release Coupling	AZD-KX-AZ Driver	RS-485		Pass	
	evation) Close with Manual		er Motor with Motor Driver and	ZM66MK-HP15F, 60mm Stepper Motor Wi	h Absolute Me	chanical Encod	er Pass	
Moto	r Specification	s:		ZM66MK-HP15F, 60mm Stepper Motor Wi	h Absolute Me	chanical Encod	er Pass	
Volta	ge (VDC): 24.0			ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Rate	Current (A): 4	.0		ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Limit	: 360 Degrees	continuous	(Clockwise/Counterclockwise)	ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Enco	der Type: Abso	lute (for Ang	le Position Retention)	ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Fram	e Size: 60 mm	(NEMA 24)		ZM66MK-HP15F, 60mm Stepper Motor W	th Absolute Me	chanical Encod	er Pass	
Max	mum Motor L	ength: 132 m	m	ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Mini	mum Holding	Torque: 9 N-	n	ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Shaf	/Gear Type: H	armonic Pla	netary Gear	ZM66MK-HP15F, 60mm Stepper Motor W	th Absolute Me	chanical Encod	er Pass	
Gear	Ratio (X:1): 1	5:1		ZM66MK-HP15F, 60mm Stepper Motor Wi	th Absolute Me	chanical Encod	er Pass	
Mini	mal Backlash			ZM66MK-HP15F, 60mm Stepper Motor W	th Absolute Me	chanical Encod	er Pass	
Max	Radial Load:	450N		ZM66MK-HP15F, 60mm Stepper Motor W	th Absolute Me	chanical Encod	er Pass	
Max	Momentary To		Annual Control of the	ZM66MK-HP15F, 60mm Stepper Motor W	th Absolute Me	chanical Enco	er Pass	
-	(Total Amo			6 of 16				
	In case for every d	of failure ay of delay	to make the full delivery withing shall be imposed.	n the time specified above, a penalty	of one-tenth	n (1/10) of or	ne percent	
1		100	600 - 11 to - 10 00 (LOS 4-100-60)	Very to	ruly yours,			

Conforme:

Signature over Printed Name of Supplier
Date

Funds Available:
JOHNNY G QUINGCO
Accountant IV

Chief Accountant

Authorized Official

ROBERT O DIZON

Executive Director

P.O. No. 23-10-1070



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

Chief Accountant

		URDEK		The state of the s				
		H INNOVATIONS, INC.			P.O. No.:	23-10		
		Corporate Center, Meralco Ave. (ortigas Center,	Date:	23-0		
10111011	Pasig City;	rex.sagge@safer.ph; 9693120	816/ 61 424353248	16	P.R. No.:	2308		
TIN :	***	009-194-023-000			Date:	30-A	ug-	23
Gentleme								***************************************
Please	furnish thi	s Office the following articles s	ubject to the terms	and conditions	contained he			
Description of the Control of the Co		Y MGMT UNIT FOR ODED-TS/CO			Delivery Te	rm: 210 (CD A	RNP
Date of De		210 calendar days after rec	ceipt of Notice to	Proceed	Payment Te			
		t:Public Bidding				,	INC	LUSIVE
Item No.	lot	Supply of Labor and Material programming of Control Syst			Quantity 1 4,0	Unit Cost	-	Amount 1,000,000.00
		Operated Battle Read	dy Armament) Control	System			ļ.,	
ust, Water, and	Weather pr	pofing compliant	ZM66MK-HP15F, 60m	n Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
ax. Operating	Temperature	80°C	ZM66MK-HP15F, 60m	n Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
epper Motor I	Prive:		ZM66MK-HP15F, 60m	n Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
pe: Closed Loc	р		ZM66MK-HP15F, 60m	n Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
utput Peak Cur	rent: 8A		ZM66MK-HP15F, 60m	m Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
put Voltage: 2	VDC		ZM66MK-HP15F, 60m	m Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
ommunication	RS485 to Et	hernet / Ethernet	ZM66MK-HP15F, 60m	m Stepper Motor W	ith Absolute M	echanical Enco	der	Pass
clusions:				AZD-KX-AZ Drive	er RS-485			Pass
ables for Come	nunication a	nd Motor Controls		AZD-KX-AZ Drive	er RS-485			Pass
		Manual Release Coupling		AZD-KX-AZ Drive			\vdash	Pass
		epper Motor with Motor Driver	ZM66MK-HP15F, 60m			ashanisal Ense	dar	Pass
		epper Motor With Motor Driver						
otor Specificat			ZM66MK-HP15F, 60m				-	Pass
oltage (VDC): 2	4.0		ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
ated Current (A	(): 4.0		ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
mit: 360 Degre	es continuo	s (Clockwise/Counterclockwise)	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
ncoder Type: A	osolute (for A	Angle Position Retention)	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
ame Size: 60 r	nm (NEMA 24)	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
laximum Moto	r Length: 158	mm	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
linimum Holdi	ng Torque: 7	N-m	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
haft/Gear Type	: Harmonic (ear	ZM66MK-HP15F, 60m	m Stepper Motor V	ith Absolute M	echanical Enco	der	Pass
ear Ratio (X:1)	: 50:1		ZM66MK-HP15F, 60m	m Stepper Motor V	/ith Absolute M	echanical Enco	der	Pass
linimal Backla	sh		ZM66MK-HP15F, 60m	m Stepper Motor W	/ith Absolute M	echanical Ence	der	Pass
lax. Radial Loa			ZM66MK-HP15F, 60m					Pass
lax Momentar		194	1					
			ZM66MK-HP15F, 60m				-	Pass
		roofing compliant	ZM66MK-HP15F, 60m					Pass
Total Ama			ZM66MK-HP15F, 60m	m Stepper Motor W	Vith Absolute M	echanical Enc	ider	Pass
(Total Amo			7 of 16					
In case for every da	of failure ay of delay	to make the full delivery within shall be imposed.	the time specified a	bove, a penalty	of one-tenth	(1/10) of or	ne pe	ercent
		-		Verv ti	ruly yours,			
C	1.				CK			
Conforme:	A	`			OBERT ODD recutive Direc			
Edward Alberta	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Auth	norized Officia	al	-	
	ver Printed いうう Date	1 Name of Supplier		7 10001	/ Office	21		
Funds Avail	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	The state of the s					-	
		QUINGCO			500 mm			32.22.22
301	Accounta			ALOBS No. 9	7-708600	2023-10	-00	1610

Amount: 4000,000.1

P.O. No.



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

Supplie S	SupplieSAFER PH INNOVATIONS, INC. P.O. No.: 23-10-1070							
Addres 2	309 One Co	orporate Center, Meralco Ave. Co	r J. Vargas Ave., O	rtigas Center,	Date:	23-0	ct-23	3
Tel No.: Pa	asig City; I	rex.sagge@safer.ph; 969312081	16/ 61 424353248		P.R. No.:	2308	1389)
TIN :		009-194-023-000			Date:	30-A	ug-2:	3
Gentleme	en:							
Please	furnish thi	s Office the following articles su	bject to the terms	and conditions	contained he	erein:		
Place of D	PROPERTY	MGMT UNIT FOR ODED-TS/COB	RA/Other Professi	onal Services	Delivery Te	2400	DAR	NP
Date of D	elivery:	210 calendar days after rece	ipt of Notice to P	roceed	Payment To		P	
	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	Public Bidding				VATI	NCL	JSIVE
Item No.	Unit		cription		Quantity	Unit Cost		Amount
1	lot	Supply of Labor and Materials f programming of Control System			1 4,0	00,000.00	4,0	000,000.00
		Operated Battle Ready	_					
	Deisses		ZM66MK-HP15F, 60n	om Stannar Motor V	With Absolute &	Achanical Enc	der	Pass
tepper Motor							+	Pass
ype: Closed Lo			ZM66MK-HP15F, 60n					
utput Peak Cu			ZM66MK-HP15F, 60n				1	Pass
hput Voltage:	4VDC		ZM66MK-HP15F, 60r					Pass
ommunicatio	n: RS485 to E	hernet / Ethernet	ZM66MK-HP15F, 60r	nm Stepper Motor V	Vith Absolute N	lechanical Enc	oder	Pass
nclusions:			AZD-KX-AZ Driver RS-485 Pass					
ables for Com	munication	and Motor Controls		AZD-KX-AZ Driv	er RS-485			Pass
lectromagneti	Brake with	Manual Release Coupling		AZD-KX-AZ Driv	er RS-485			Pass
. (Camera Y) C	losed Loop S	epper Motor with Motor Driver	ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute I	Mechanical En	coder	Pass
Motor Specifica	tions:		ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute I	Mechanical En	oder	Pass
oltage (VDC):	24.0		ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute I	Mechanical En	oder	Pass
ated Current	A): 4.0		ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute	Mechanical En	oder	Pass
imit: 360 Degr	ees continuo	us (Clockwise/Counterclockwise)	ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder Pass					Pass
ncoder Type:	Absolute (for	Angle Position Retention)	ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Encoder Pass					Pass
rame Size: 60	mm (NEMA 2	4)	ZM66MK-HP15FF, 60mm Stepper Motor With Absolute Mechanical Engoder Pass					
Maximum Mot	or Length: 15	8 mm	ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute	Mechanical En	coder	Pass
Minimum Holo	ing Torque: 7	N-m	ZM66MK-HP15FF, 60	mm Stepper Motor	With Absolute	Mechanical En	coder	Pass
shaft/Gear Typ			ZM66MK-HP15F, 60r				1	Pass
Gear Ratio (X:1			ZM66MK-HP15F, 60r					Pass
Minimal Backl			ZM66MK-HP15F, 60r				-	Pass
Max. Radial Lo			ZM66MK-HP15F, 60r				-	Pass
			ZM66MK-HP15F, 60r				-	Pass
Max Momenta							-	
		proofing compliant	ZM66MK-HP15F, 60				<u> </u>	Pass
Max. Operatin		e: 80°C	ZM66MK-HP15F, 600				-	Pass
Stepper Moto			ZM66MK-HP15F, 60					Pass
(Total Anna	-	4-7	ZM66MK-HP15F, 60	nm Stepper Motor	With Absolute I	Mechanical En	oder	Pass
(Total Amo			3 of 16			9		
In case	of failure	to make the full delivery within t	the time specified a	bove, a penalty	of one-tenth	n (1/10) of o	ne pe	rcent
for every a	ay or delay	shall be imposed.			/ \		•	
				Very to	ruly yours,			
Conforme:	Conforme: ROBERT O: DIZON							
//	Executive Director							
	- VI			Auth	nonzed Offici	al		
Signature of	wer Printed	Name of Supplier				.		
	The state of the s							
Éundo Avell	Funds Available:							
	INNY G. Q	HITNECO						
JOH	Accountan			ALOBS No.	n. 700 i	L. 1 1 1 - 1	-(.)	1/21
(Chief Accou			Amount:	10.000.		17/1	970
A STATE OF THE PARTY OF T	P.O. No. 23-10-1070							
						r.U. N	U.	



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 PI	H INNOVATIONS, INC.			P.O. No.:	23-10)-107()
	Address:2	2309 One C	Corporate Center, Meralco Ave. Co	or J. Vargas Ave., (Ortigas Center,	Date:	23-0	ct-23	
	Tel No.: F	Pasig City;	rex.sagge@safer.ph; 96931208	16/ 61 424353248		P.R. No.:	2308	31389	
	TIN :		009-194-023-000			Date:	30-A	ug-23	
	Gentleme	n:					The state of the s		
	Please	furnish thi	s Office the following articles sub	oject to the terms	and conditions	contained he			
	Description of the last section of the last se		Y MGMT UNIT FOR ODED-TS/CO			Delivery Te	rm: 210 (D AR	NP-
	Date of De		210 calendar days after rece	eipt of Notice to	Proceed	Payment Te			
			t:Public Bidding				VAII	INCLU	SIVE
	Item No.	Unit lot	Supply of Labor and Materials	ription for the installation.	ntegration, and	Quantity	Unit Cost		mount 00,000.00
	_	100	programming of Control System			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,	,
			Operated Battle Ready	Armament) Control	System			ļ.,,	
Di	rtput Peak Cur	rent: 8A		ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical Ed	coder	Pass
n	out Voltage: 2	4VDC		ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical Er	icoder	Pass
c	mmunication	RS485 to Et	nernet / Ethernet	ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical Er	ncoder	Pass
n	dusions:				AZD-KX-AZ Dr	iver RS-485			Pass
2	bles for Com	nunication a	nd Motor Controls		AZD-KX-AZ Dr	iver RS-485			Pass
1	ectromagnetic	Brake with	Manual Release Coupling		AZD-KX-AZ Dr	iver RS-485			Pass
-	(Cocking) Clo	sed Loop Ste	pper Motor with Motor Driver	ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
v	otor Specificat	ions:		ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
/4	ltage (VDC): 2	4.0		ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
22	ted Current (A	A): 4.0		ZM66MK-HP15F, 60	mm Stepper Moto	With Absolute	Mechanical E	ncoder	Pass
i	mit: 360 Degre	es continuo	us (Clockwise/Counterclockwise)	ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
-	coder Type: A	bsolute (for	Angle Position Retention)	ZM66MK-HP15F, 60	mm Stepper Moto	With Absolute	Mechanical E	ncoder	Pass
-	ame Size: 60 n	nm (NEMA 2	4)	ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
V	aximum Moto	r Length: 13	2 mm	ZM66MK-HP15F, 60	mm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
V	inimum Hold	ng Torque: 9	N-m	ZM66MK-HP15F, 60	mm Stepper Moto	With Absolute	Mechanical E	ncoder	Pass
1	aft/Gear Type	: Harmonic	Planetary Gear	ZM66MK-HP15F, 60	omm Stepper Motor	With Absolute	Mechanical Er	ncoder	Pass
3	ear Ratio (X:1)	: 15:1		ZM66MK-HP15F, 60	omm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
4	inimal Backla	sh		ZM66MK-HP15F, 60	Omm Stepper Motor	With Absolute	Mechanical Er	ncoder	Pass
4	ax. Radial Los	d: 450N		ZM66MK-HP15F, 60	mm Stepper Moto	With Absolute	Mechanical Er	ncoder	Pass
4	ax Momentar	y Torque: 35	0%	ZM66MK-HP15F, 60	Omm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
1	ust, Water, an	d Weather p	roofing compliant	ZM66MK-HP15F, 60	Omm Stepper Motor	r With Absolute	Mechanical Er	ncoder	Pass
V	ax. Operating	Temperatur	e: 80°C	ZM66MK-HP15F, 60	Omm Stepper Motor	With Absolute	Mechanical E	ncoder	Pass
1	epper Motor	Drive:		ZM66MK-HP15F, 60	Omm Stepper Motor	r With Absolute	Mechanical E	ncoder	Pass
1	pe: Closed Lo	ор		ZM66MK-HP15F, 60	Omm Stepper Motor	r With Absolut	Mechanical E	ncoder	Pass
1	utput Peak Cu	rrent: 8A		ZM66MK-HP15F, 60	Omm Stepper Motor	r With Absolute	Mechanical E	ncoder	Pass
-	put Voltage: 2	4VDC		ZM66MK-HP15F, 60	Omm Stepper Motor	r With Absolute	Mechanical	ncoder	Pass
ŀ	(Total Amo	Name and Address of the Owner, when the Owner,		9 of 16					
HARMANIA	In case	of failure	to make the full delivery within the	ne time specified a	bove, a penalty	of one-tenth	(1/10) of on	e perc	ent
ĺ	for every da	ay of delay	shall be imposed.		8 £ *		. , . ,		
					Very tr	ruly yours,			
a comment	Conforme: ROBERT O'DIZON								
		AH				cecutive Direc			
	Cinnel	7			Auth	orized Officia	al		
	Signature of	ver Printed	Name of Supplier						
Management of the last		Date	And the second s			1			
r	Funds Availe	THE R. P. LEWIS CO., LANSING, SPICES	_	The state of the s					
-			QUINGCO		44.70	0 220		98	
		Accountag	nt IV		ALOBS No. 0	1208691	-2023-10.	09016	0
L	Accountant IV ALOBS No. カンプログ も 1 - ファンター (ひ - 6 8 0 10 Chief Accountant Amount: (4,000,000-/ 50つ(1990)								



METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

Gen. Santos Avenue, Bicutan, Taquiq City Tel. nos. 837-0431 to 38; Fax; 837-0430

MRO

TIN# 000-284-708 **PURCHASE ORDER** 23-10-1070 Supplier: SAFER PH INNOVATIONS, INC. 23-10-1070 P.O. No .: Address: 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, 23-Oct-23 Date: Pasig City; rex.sagge@safer.ph; 9693120816/ 61 424353248 Tel No.: 23081389 P.R. No .:

TIN 009-194-023-000 30-Aug-23 Date: Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein: Place of DePROPERTY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services 210 CD ARNP Delivery Term: Date of Delivery: 210 calendar days after receipt of Notice to Proceed LDDAP Payment Term Mode of Procurement: Public Bidding **VAT INCLUSIVE** Quantity Unit 4,000,000.00 Item No. Unit Description Unit Cost Amount 1 Supply of Labor and Materials for the installation, integration, and lot 4,000,000.00 programming of Control System for the Project COBRA (Controller **Operated Battle Ready Armament) Control System** mmunication RS485 to Ethernet / Ethernet 7M66MK-HP15F 60mm Stepper Motor With Absolute Mechanical Encoder Pass clusions AZD-KX-AZ Driver RS-485 bles for Communication and Motor Controls AZD-KX-AZ Driver RS-485 Pass ectromagnetic 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 IPUT Voltage: \$-24VDC Apem Defense Ground Equipment Pass ardware and Software Integration using Apem Defense Grou nd Equipment Pass RS232/RS422/Ethernet/Microcontroller E bit System RCWS Gunner Control Handle Unit as the benchmark Apem Defense Ground Equipment Pass erates by deflection to the right and Apem Defense Ground Equipment Pass left direction
Pedestal elevation motion operates by deflection upward and Apem Defense Ground Equipment Pass ownward ith buttons and switches for each grip with following Apem Defense Ground Equipment functions: Laser Range Finder Trig 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 Grou ind Equipment **FOV Switching** Apem Defense Ground Equipment Pass Palm Switch (requirement for any pedestal action) Apem Defense Gro and Fauipment Pass Joystick Mechanical Mounting with cable connectors Apem Defense Ground Equipment Pass oystick Controls Mechanical Mounting (Military Graded) Pass Apem Defense Ground Equipment onnectors: USB/RJ45/RS23 Apem Defense Gro ind Equipment O. Industrial Network Switch Tripp Lite Industrial Network Switch Pass ominal voltage: 24 V DC Tripp Lite Industrial Network Switch Pass lement: Industrial Ethernet Switches Network Switch Tripp Lite Industrial Pass pecification: Unmanaged Tripp Lite Industria Network Switc Pass ype of Ethernet: Full Gigablt Ethernet Tripp Lite Industria Network Switc Pass otal number of ports: 16 (#J45-Ports) Tripp Lite Industria Network Switc Pass (Total Amount in Words) 10 of 16 In case of failure to make the full delivery within the

	arr case or rangile to ma	we the full delivery	within the time specified	above, a penalty	of one-Venth	(1/10) of one n	orcont
or	every day of delay shall	he imposed	1.000 to 10.000 to 20.000 West to 20.000		or one perien	(1/10) of one p	CICCIII
01	cively day of delay sitali	be imposed.					
					/		

Conforme:

Signature over Printed Name of Supplier

Date

Funds Available: JOHNNY G. QUINGCO Accountant IV

Chief Accountant

ROBERT O. DIZON **Executive Director** Authorized Official

Very truly yours

- 20101-1013-10-00010 ALOBS No.



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

	Supplier\$	SAFER PH	I INNOVATIONS, INC.		Commence of the Commence of th	P.O. No.:		23-10-	1070	
	Address	2309 One C	Corporate Center, Meralco Ave. (Cor J. Vargas Ave., Ortig	gas Center,	Date:		23-00	t-23	
	Tel No.: F	Pasig City;	rex.sagge@safer.ph; 9693120	816/ 61 424353248		P.R. No.:		23081	389	
	TIN :		009-194-023-000					30-Au	The second second	
	Gentleme	an'	007 237 023 000			Date:				
			- 055 41 6-11 11 11 11							
	Please	TURNISH THI	s Office the following articles s	subject to the terms an	d conditions			240.0	A D N D	
	-		Y MGMT UNIT FOR ODED-TS/CO			Delivery Te	rm:		ARNP	
	Date of D		210 calendar days after rec	ceipt of Notice to Pro	I rayment term		LDDAF			
		Assessment of the Party of the	tPublic Bidding					VAI II	INCLUSIVE	
	Item No.	Unit		scription		Quantity	Unit	Cost	Amount	
	1	lot	Supply of Labor and Material programming of Control Syst		T	1 4,0	00,000	.00	4,000,000.00	
				ly Armament) Control Sys	The second contract of					
								1	1 -	
Ma	Length: 27.3	mm		Tripp L	ite Industrial N	etwork Switch			Pass	
Ma	k Width: 120 r	hm		Tripp L	ite Industrial N	etwork Switch			Pass	
Vla	x Height: 113.	mm		Tripp L	ite Industrial N	etwork Switch			Pass	
11.	Communicati	on and Powe	Cables	Control Solut	ions Cable Ass	mbly Manufac	turing		Pass	
		1	ng Management are implemented							
			e with the MIL-HDBK-454B (General pment) — Guideline No. 69 —	Control Solut	ions Cable Ass	embly Manufac	turing		Pass	
nte	rnal Wiring P	ractices.								
	works shall co		he Philippine Electrical Code and	Control Solut	ions Cable Ass	embly Manufac	turing		Pass	
			harger, and Monitoring System		Eaton UI	PS .			Pass	
NP	UT: 24 VDC, 10	104h LiPo ha	tterv		Eaton U	95			Pass	
									Pass	
-	TPUT: 24 VDC				Eaton UI					
UPS	: 6 mins back	up time			Eaton U	PS			Pass	
Bat	tery Monitoria	ng System (Bl	MS) Dashboard:		Eaton U	PS			Pass	
	With Digital	Voltmeter			Eaton U	PS			Pass	
	With Emerge	ncy Button			Eaton U	PS			Pass	
4	On/Off Swite	h			Eaton U	PS			Pass	
	Light Indicat	ors for Low/	High Voltage		Eaton U	25			Pass	
-										
-	No.		High Current		Eaton U				Pass	
	1pc Circuit I	Breaker 100A	k		Eaton U	PS			Pass	
Ind	lusion:				Eaton U	PS			Pass	
4 6	cs Battery				Eaton U	PS			Pass	
1 p	c UPS				Eaton U	PS			Pass	
1 4	nit BMS Dash	poard (10-12	inches)		Eaton U	PS			Pass	
13			ons, Pilot Lamps, Switches	Anen	n Defense Grou	nd Equipment			Pass	
All			ons, Pilot Lamps, Switches	Apen	20.00					
im	plemented to	OBRA System	n must be compliant in accordance	Apen	n Defense Grou	nd Equipment			Pass	
wi			eral Guidelines for Electronic					1		
1	(Total Amo	unt in Wor	ds)	11 of 16						
	In case	of failure t	to make the full delivery within	the time specified above	ve a nenalty	of one tenth	(1/10)) of one		
-	for every da	ay of delay	shall be imposed.	and anno opecined abou	ve, a penalty	or one tentin	(1/10)) OI ONE	e percent	
-					Very to	uly warms				
90		1000				uly yours,				
-	Conforme:	M			R	OBERT O. D.	IZON			
1	/	M			EX	ecutive Direc	tor			
and the same	Cianatural	VI	I NI C O		Auth	orized Officia	ıl		Minu	
1	Signature o	ver Printed	Name of Supplier							
	- 1	Date	The state of the s			1				
1	Funds Avail	Date								
		HNNY G.	OUTNGCO						000000000000000000000000000000000000000	
	JUI			A.	OPC No PY	NO DOLLE	200	3-10-	-000/01	
Accountant IV Chief Accountant				AL	DOS NO.	12,000.1		600	1000	
L	ORDER TO SERVICE OF THE PERSON NAMED OF T	ALCOU	I FLUI IL	I An	nounc:	00 /		THE RESERVE AND PERSONS NAMED IN	1197	
		P.O. No. 23-10-1070								



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
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	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; 96931208	316/ 61 424353248	P.R. No.: 23081389			
	TIN :		009-194-023-000		Date:	30-/	Aug-2:	3
	Gentleme	en:						
	Please	furnish thi	s Office the following articles su	bject to the terms and conditions	contained he	erein:		
			-	BRA/Other Professional Services	Delivery Te	rm: 210	CD AR	NP
	Date of De	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	210 calendar days after rec	eipt of Notice to Proceed	Payment To			
			t:Public Bidding	-		VAT	INCLU	ISIVE
	Item No.	Unit lot		ription for the installation, integration, and	Quantity	Unit Cost	40	Amount 100,000.00
	-	100	programming of Control Syste	em for the Project COBRA (Controller y Armament) Control System	/			
14	. Gyroscope S	stem for Im	age Stabilization	TAG 304 3-Axis	Gyroscope			Pass
3-,	Axis Gyroscop	e for Gimbal	System	TAG 304 3-Axis	Gyroscope			Pass
Hi	gh-Precision I	nclinometer		OptoWOM-II Accelerometer	/ Inclinometer	Compass		Pass
M	litary-Grade A	Acceleromete	r with Digital Compass and Gyro	OptoWOM-II Accelerometer	/ Inclinometer	Compass		Pass
In	lusive of cab	es, commun	ication systems such as:	SeaLink+4.422 Ethernet to 4-p	ort RS-422/48	Converter		Pass
RS	485/RS422/RS	232 to Ether	net converter	SeaLink+4.422 Ethernet to 4-p	ort RS-422/48	Converter		Pass
15	. SDI to Ethern	et Converter	and SDI Cable (Day/Thermal)	Terranex Mini SDI to HDMI Co	nverter with H	D-SDI Cable		Pass
In	put Video: 1-cl	nannel SD /H	D /3G SDI	Terranex Mini SDI to HDMI Co	onverter with H	D-SDI Cable		Pass
Vi	deo Encoding:	EVC /H.265,	H.264 /AVC, MJPEG	Terranex Mini SDI to HDMI Co	onverter with H	D-SDI Cable		Pass
M	ax. Video Reso	lution: 1920	× 1080 @ 60fps	Terranex Mini SDI to HDMI Co	onverter with H	D-SDI Cable		Pass
M	ax Size Dimen	sion: 130mm	× 100mm × 30 mm	Terranex Mini SDI to HDMI Co	onverter with H	D-SDI Cable		Pass
D	ıst, Water, and	d Weather p	oofing compliant	Terranex Mini SDI to HDMI O	onverter with H	D-SDI Cable		Pass
In	put Voltage: 2	4VDC		Terranex Mini SDI to HDMI C	onverter with H	D-SDI Cable		Pass
16	. Ethernet to 4	Port RS422	Converter	SeaLink+4.422 Ethernet to 4-	port RS-422/48	5 Converter		Pass
4	ports RS422/4	85		SeaLink+4.422 Ethernet to 4-	port RS-422/48	5 Converter		Pass
M	ax baud rate	Megabaud		SeaLink+4.422 Ethernet to 4-				Pass
-			roofing compliant	SeaLink+4.422 Ethernet to 4-				Pass
\dashv			and Comms Status)	SeaLink+4.422 Ethernet to 4-				Pass
-	put Voltage: 5			SeaLink+4.422 Ethernet to 4-				Pass
-	. Microcontro		ion	Apem Defense Ground Equipment -			ler	Pass
_			stick and Trigger Mechanism	Apem Defense Ground Equipment -				Pass
1	dustrial Grad Trigger Mec	led) nanism - Ele	tric Linear Solenoid with Relay	PPS-1-10-12V Push P				Pass
- 1	odule put: 6 to 240V	DC.		PPS-1-10-12V Push P				Pass
+			through microcontroller					
1			an Juga microcontroller	PPS-1-10-12V Push P				Pass
+	inimum Stroke		f-20 N	PPS-1-10-12V Push P				Pass
Ŧ	(Total Amo	-		PPS-1-10-12V Push F	ull Solenoid Ir	gger		Pass
ŀ				12 of 16				
STATES STREET, STATES OF STREET, STATES STATES STREET, STATES STREET, STATES STREET, STATES STREET, STATES STREET, STATES STATES STREET, STATES STA	for every da	ay of delay	shall be imposed.	R	of one-tenth ruly yours, OBERT O.D xecutive Direct	IZON	ne perc	ent
Name and Address of the Owner, where		11		CONTROL OF THE PARTY OF THE PAR			-	
	Signature p	ver Printed	Name of Supplier	Autr	orized Officia	31		
	7	Date.			1			
1	Funds Availa			T				
	JOI		QUINGCO	<i>1</i> ~	2011	Lower	, , ,	1 - 7
1		Accounta		ALOBS No.	1- 1000	1-17-1)- , = 0 D	101
L		hief Accou	ntant	Amount: 3 1/	July 191.	(1)-	1/19	0
						P.O. No	0. 23	-10-1070



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

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		· OIZDEIZ					
Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whi		H INNOVATIONS, INC.		P.O. No.:	23-1	0-1070	
CHEST CONTRACTOR CONTR		Corporate Center, Meralco Ave. Cor		Date:	23-	Oct-23	
Tel No.:	Pasig City	; rex.sagge@safer.ph; 969312081	6/ 61 424353248	P.R. No.:	230	81389	
TIN :		009-194-023-000		Date:	30-/	Aug-23	
Gentleme	en:						
Please	furnish thi	is Office the following articles subj	ect to the terms and conditions	contained h	erein:		
Place of D	ePROPERT	Y MGMT UNIT FOR ODED-TS/COB	RA/Other Professional Services	Delivery Te		CD ARNE	-
Date of D		210 calendar days after recei	pt of Notice to Proceed	Payment To		AP	
	Street, or other Designation of the last o	t:Public Bidding			VAT	INCLUSI	VE
Item No.	Unit	Descri	otion	Quantity	Unit Cost		ount
1	lot	programming of Control System	or the installation, integration, and for the Project COBRA (Controller Armament) Control System	1 4	,000,000.00	4,000,	,000.00
Dust, Water, a	nd Weather	proofing compliant	PPS-1-10-12V Push	Pull Solenoid 1	Trigger		Pass
19. Slip Ring			GT-Serie	s Slip Ring			Pass
With 23 Rings	with the inc	lusion of the following:	GT-Serie	s Slip Ring		1	Pass
6 Rings 1	OA/Ring Pov	ver with 6-12 PVC wires		s Slip Ring	 		Pass
		al with 12- 0.35 ² PVC wires		s Slip Ring	 	-	Pass
		F 5E with RJ45 M Connector		s Slip Ring			Pass
1 ring sh	-	J. Maria S. M. Commetton			-	-	
				s Slip Ring		<u>i </u>	Pass
Diameter: 118		7		s Slip Ring			Pass
Height: 118m			GT-Serie	s Slip Ring			Pass
Type: Through	bore slip ri	ng	GT-Serie	s Slip Ring			Pass
Min. Bore Dia	meter: 50mn	7	GT-Serie	s Slip Ring			Pass
Dust, Water,	and Weather	proofing compliant	GT-Serie	s Slip Ring			Pass
Voltage: 0-38	DVDC/VAC		GT-Serie	s Slip Ring			Pass
Mechanical Sp	ecifications:		GT-Serie	s Slip Ring			Pass
Speed: 0~500	RPM		GT-Serie	s Slip Ring			Pass
Max Torque:	2 Nm		GT-Serie	s Slip Ring			Pass
20. Operator	/ Controller	Chair	Mobius Protection	Systems Gunne	er Seat		Pass
Ergonomics f	or COBRA op	erations and fit when installed in APC	Mobius Protection	Systems Gunne	er Seat		Pass
21.Bore Sight	er Laser (Hea	vy Duty)	Sight Mark SM39038				Pass
Designed and Bore	fitted for O.	50 Caliber Heavy Barrel Machine Gun's	Sight Mark SM39038				Pass
Visible up to	600m range		Sight Mark SM39038	.50 CAL Boresi	ght Laser		Pass
		of the Military Camera System with the 50 Caliber Heavy Barrel Machine Gun.	Sight Mark SM39038	.50 CAL Boresi	ght Laser		Pass
C.Software R			and the state of t	Undertaking			
		and Programming of Control System of ing detailed specifications:	to provide the software integration COBRA (Controller Opera			stem of	Pass
2 Deilien			Affidavit o	Undertaking			
1. Military Jo	ystick integr	ation	to provide the software integration COBRA (Controller Opera		1 5	stem of	Pass
(Total Amo	unt in Wor	ds) 13	of 16				
In case for every da	of failure t	to make the full delivery within the shall be imposed.		of one-tenth	1 (1/10) of or	ne percent	t
			Very to	ruly yours,			
Conforme:	di-		R	OBERT O. E	IZON		
	AH	•	E	xecutive Dire	ctor		
	Authorized Official						
signature of	Signature over Printed Name of Supplier						
	Date.	The second second		1			
Funds Avail			The second secon				
		QUINGCO					
	Accounta		ALORS NO A	N304601.	-2023-10	-04010	(
	hief Accou		ALOBS No. 6	D. KM./	095	11990	
The second secon	A CONTRACTOR OF THE PARTY OF TH		Turourier 7/00	100 -,	P.O. No		0-1070
					P.O. NO	J.	



PURCHASE ORDER

Republic of the Philippines

METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

Gen. Santos Avenue, Bicutan, Taquiq City Tel. nos. 837-0431 to 38; Fax: 837-0430 TIN# 000-284-708

MBO

23-10-1070

SupplierSAFER PH INNOVATIONS, INC. P.O. No.: Address 2309 One Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Center, 23-Oct-23 Date: Pasig City; rex.sagge@safer.ph; 9693120816/61 424353248 Tel No.: 23081389 P.R. No.: TIN 009-194-023-000 30-Aug-23 Date: Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein: Place of Defroperty MGMT UNIT FOR ODED-TS/COBRA/Other Professional Services 210 CD ARNP Delivery Term: Date of Delivery: 210 calendar days after receipt of Notice to Proceed IDDAP Payment Term Mode of ProcurementPublic Bidding **VAT INCLUSIVE** Item No. Unit Description Quantity Unit Cost Amount Labor and Materials for the installation, integration, and programming of 1 lot **Controller Operated Battle Ready Armament Control System** Affidavit of Undertaking Install Communication, Integration, and Diagnostic to provide the software integration and programming control system COBRA (Controller Operated Battle Ready Armament) (Maintenance) Tools, Software and Protocol on HMI with Pass Operating System Affidavit of Undertaking Pro ide copy of Communication, Integration, and Diagnostic to provide the software integration and programming control system (Maintenance) Tools, Software and Protocol to the end user COBRA (Controller Operated Battle Ready Armament) Affidavit of Undertaking Inclusion of Laptop (i7, 512GB SSD) with Communication, to provide the software integration and programming dontrol system of COBRA (Controller Operated Battle Ready Armament) G etac \$410 Rugged Integration, and Diagnostic Tools and Software (Maintenance) Noteboo Affidavit of Undertaking osed Loop Stepper Motor Drive Software Development Kit to provide the software integration and programming control system Pass verse/Elevation/Cocking/Camera System) COBRA (Controller Operated Battle Ready Armament) Install Communication, Integration, and Diagnostic (Maintenance) Tools, Software, and Protocol on HMI with Affidavit of Undertaking to provide the software integration and programming control system of Pass COBRA (Controller Operated Battle Ready Armament) Operating System Affidavit of Undertaking ide copy of Communication, Integration, and Diagnostic to provide the software integration and programming control system Pass (Maintenance) Tools, Software and Protocol to the end user COBRA (Controller Operated Battle Ready Armament) Affidavit of Undertaking to provide the software integration and Inclusion of Laptop (i7, 512GB SSD) with Communication, programming control system of COBRA (Controller Operated Battle Re Pass Integration, and Diagnostic Tools and Software (Maintenance) Armament) Getac S410 Rugged Notebook Affidavit of Undertaking 3. Gimbal System Integration using Gyroscope to provide the software integration and programming control system Pass COBRA (Controller Operated Battle Ready Armament) gration of Gimbal System using Gyroscope for image Affidavit of Undertaking ilization by c to provide the software integration and programming ontrolling the Camera System Closed Loop control system Pass Stepper Motors (X and Y axis) COBRA (Controller Operated Battle Ready Armament) Affidavit of Undertaking 4. Military Camera System Integration to provide the software integration and programming Pass COBRA (Controller Operated Battle Ready Arn Affidavit of Undertaking Integrated Military Camera System full functionality and to provide the software integration and programming control system Pass operation COBRA (Controller Operated Battle Ready Arrhament) Affidavit of Undertaking D. esting to provide the software integration and programming control system Pass COBRA (Controller Operated Battle Ready Armament) Affidavit of Undertaking sting for Integrated Military Camera System functions and to provide the software integration and programming control system Pass features through the Gunner Control Handle Unit. COBRA (Controller Operated Battle Ready Armament) Affidavit of Undertaking to provide the software integration and programming control s COBRA (Controller Operated Battle Ready Armament) 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. Very truly yours, Conforme: ROBERT O. DIZON **Executive Director** Authorized Official Signature over Printed Name of Supplier Date Funds Available: JOHNNY 6. QUINGCO M. 206601-1271-12-100421 Accountant IV ALOBS No. Chief Accountant Amount:



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

	-		TINNOVATIONS, INC.			P.O. No.:	23-10		
	-		Corporate Center, Meralco Ave.	는 시간에 가장하면 사람이 가면 가장 하시겠다면, 맛이 먹어지면		Date:	23-0		
Tel No.: Pasig City; rex.sagge@safer.ph; 9693120816/ 61 424353248			P.R. No.: 23081389						
	TIN :		009-194-023-000			Date:	30-A	ug-	23
	Gentlem								##
	Please	furnish th	is Office the following articles	subject to the terms	and conditions	contained he	erein:		
	Place of D	EROPERT	Y MGMT UNIT FOR ODED-TS/			Delivery Te	rm: 210 (CD-/	ARNP
	Date of D	CONTRACTOR OF THE PARTY OF THE	210 calendar days after re	eceipt of Notice to	Proceed	Payment Te	erm LDD/		
		And in case of the last of the	t Public Bidding				VAT	INC	LUSIVE
	Item No.	Unit		escription		Quantity	Unit Cost	T	Amount 4,000,000.00
	1	lot	Labor and Materials for the ins Controller Operated Bat			1 4,0	00,000.00	1	4,000,000.00
				ao itaway rumamama oo					
		 		1	Affidavit of Unde	rtaking			
.Te	ting for the ac	curacy of po	sition:	to provide the softwa	re integration and	programming c	ontrol system	of	Pass
				COBRA (Con	troller Operated Ba		ament)		
20					Affidavit of Unde			-	-
.No	beol			to provide the softwa	troller Operated Ba			91	Pass
_				COBRA (COI	Affidavit of Unde		ament)		
.W	th load			to provide the softwa			ontrol system	of	Pass
					troller Operated Ba	THE RESERVE OF THE PARTY OF THE			
3.CC	BRA System ta	rget detection	n, tracking, locking, and hitting	i i	Affidavit of Unde	rtaking			
		1	Personnel Carrier using the	to provide the softwa	_			of	Pass
ollo	wing test prof	tocol:		COBRA (Cor	troller Operated Ba Affidavit of Unde		ament)	-	
.St	tionary gun n	ount + static	nary Target at gun effective	to provide the softwa	Control and the second		ontrol system	l f	Pass
ang	e			The second secon	troller Operated Ba				
					Affidavit of Unde	ertaking			
.St	ationary gun n	ount + movi	ng Target at gun effective range	to provide the softwa	re integration and	programming o	ontrol system	of	Pass
				COBRA (Cor	troller Operated Ba		ament)	_	
		-		4	Affidavit of Unde			L	D
LIVI	oving gun mou	nt + Stationa	ry Target at gun effective range	to provide the softwa	troller Operated Ba			DI .	Pass
				CODICATEDI	Affidavit of Unde		oment,		
M.b	oving gun mou	int + moving	Target at gun effective range	to provide the softwa	an order to the second	_	ontrol system	of	Pass
				COBRA (Cor	troller Operated Ba	ittle Ready Arn	ament)		
ı	Amount		Sch	edule and Requi	roments		18	1	
	Amount		3611	edule and requi	ements				
1	0504	50% cor	npletion of required work. Inte	egrated the mechanic	cal. Electrical, co	ontrol system	١.		
- 1	25%		ntation, Military Camera Syst						
1		75% cor	npletion of required works.						
1		-integrat	ed the programming for the C	Computerized Target	detection and tr	acking, Milita	ary Camera		
-		System	Software and all other function	nalities, Ballistic con	puter, Gyro Sys	item (True N	orth).	- 1	
	-								
	(Total Amo			15 of 16					
	In case	of failure	to make the full delivery within	n the time specified a	above a penalty	of one-tenth	(1/10) of or	20.0	orcont
	for every da	ay of delay	shall be imposed.		assist a penalty	or one tenen	(1/10) 0/ 0/	ie p	ercent
					Very tr	uly yours.			
6	Conforme:	10				CK			
	comorne.	14				ecutive Direc			
	6	911			***************************************			Description of the last	
	Signature o	ver Printed	Name of Supplier		Auth	orized Officia	al		
an Aggregate		11/11	Dry			1			
		Date	1 7			(
	Funds Avail	ablert							
	JO		QUINGCO	1	2	- 0 - 1/1 -	1		
Change Control		Accounta			ALOBS No. O	W170860	1-2027-	10-	10/01
Mary Co.		Chief Accou	ıntant		Amount: 4, 6	00, 000.	50	2/	990
							P.O. No).	23-10-1070



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

				ORDER					
St	ipplier:			H INNOVATIONS, INC.		P.O. No.:	23-1	0-1070	
Ac	ldress:			Corporate Center, Meralco Ave. Cor J. Vargas Ave., Ortigas Cel	nter,	Date: 23-Oct-23			
Te	el No.:	Pasig	City	; rex.sagge@safer.ph ; 9693120816/ 61 424353248		P.R. No.: 23081389			
TI	N :			009-194-023-000		Date:	30-	Aug-23	
Ge	entleme	en:							
	Please	furnis	h thi	s Office the following articles subject to the terms and condit	tions	contained he			
_		-	-	TY MGMT UNIT FOR ODED-TS/COBRA/Other Professional Serv	/ices	Delivery Te	erm:	CD ARNP	
THE REAL PROPERTY.	te of De	The state of the s	THE RESERVE OF	210 calendar days after receipt of Notice to Proceed		Payment To			
_	ode of P	7	THE REAL PROPERTY.				VAI	INCLUSIV	E
116	m No.	Ur	ot	Description Supply of Labor and Materials for the installation, integration,	and.	Quantity	Unit Cost	4,000,0	
				programming of Control System for the Project COBRA (Contr	oller			,,,,,	
۱ ۱	509	k 1	-Co	Operated Battle Ready Armament) Control System repleted all the Functionality testing for the Integrated Medi	hani	cal Electrica	Instrumen	tation.	ı
			and	Control System, Military Camera System with all the peripures.	hera	als and Softw	are Progran	ns and	
			-Co	mpleted the Measured Testing					
		\vdash	100	% Completion of required works.					
				mpleted the installation of the fully functional integrated au	tom	ated oun mo	ent on the id	entified	
	259	6		of the Philippine Army at Camp O'Donelle Capas Tarlac			litt on the lo	enuned	
				source code, schematic, layout and other relative informal gration of the project will be provided to the project team.	tion	used in the d	evelopment	and	
	100	%	Tot						
	MOBI	LIZA	TION	FEE					
	The b	dder n per	shall cent (upon written request, be allowed to collect a mobilization 15%) of the total contract price.	fee	in an amour	t not exceed	ding	
	The n	pobiliz by let	tation ter of	ifee shall be made only upon submission to and accept credit of equivalent value from a commercial bank, a ban ssued by a surety or insurance company duly licensed by t	ance k gu	by the MiF	DC of an ir	revocable d callable	
	The b	dder	shall	repay the mobilization fee by deducting an amount equal e advance payment from each progress payment until the	l to t	ne percenta	ge of the tot	al conract	
	RETE					,			
	The to	tal 5	% ret	ention fee shall be due for release one year after the issua	nce	of Certificate	of Final Ac	ceptance.	
	All dra	wing	s mu	st be approved by the MIRDC Project Team prior to fabrica	ation				
	A	De	liver	and Installation of the COBRA must be maximum of 210	cale	ndar days af	er receipt of	Notice to	
	Tarlac	City.	eliver	y and installation of the unit will be on the identified Armo	OF V	ehicle at Car	np O'Donne	II, Capas.	
	and re	The	e con	nmissioning phase shall include the testing of the functional ts of all the systems and components of the COBRA as ind	ity a	nd compliant	e to the spe	cifications ence.	
				hematic, layout, program and other relative information used					
				e provided inside Two (2) USB copy and installed into a lapt					
-	The win	ning	oidde	r must provide a certificate of warranty to the COBRA aga	inst	faulty mater	als, process	and	
	workma	hship	for a	period of at least 1 year from date of acceptance.					
						١ .	TOTAL	4,000,0	00.00
							Less: 5% GM		71.43)
							2% EW		28.57)
-		<u> </u>					5% F		00.00)
(To	tal Amo	-						3,550,0	00.00
	In case	of fa	ilure	to make the full delivery within the time specified above, a pe	enalt	y of one-tenti	n (1/10) of or	ne percent	
tor	every d	lay of	delay	shall be imposed.				A CONTROL ■ CONTROL AND CONTROL PROPERTY.	
				V	ery	truly yours,			
Cor	nforme:	1	٨		-	ROBERT O. 1	DIZON		ı
	Executive Director								
-	Authorized Official								
Sig	Signature over Printed Name of Supplier								
	11/0/23								
Fire	nds Avai	Date							
ı ul				QUINGCO					
				ant IV ALOBS No	٥.	7.0006	51. 1077	· 10. 13	10
-		The Real Property lies and the least of the		Intent Amount:	7.	2 1 2 2 1		2/10	- '

BUDGET UTILIZATION REQ JEST 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 : <u>07</u>

Payee	SAFER PH INNO	OVATIONS INC				
Office						
Address						
Respon	sibility Center	Particulars		MFO/PAP/KRA	UACS Code/ Expenditure	Amount
Respon		Po No. 23-10-1070 dated 10/23/23 23081389 dated 08/30/23	as per PR No.	MFO/PAP/KRA	UACS Code/ Expenditure 5021199000	Amount 4,000,000.00
A. Signature Printed Name Position	lawful and under r documents valid, :	to appropriation/budget necessary, ny direct supervision, and supporting proper and legal	B. Signature : Printed Name: Position :	purpose/adjustme	TOTAL available and utilizent necessary as in AGNES F. PEDRA	dicated above.
Date			Date :			
C		CT/	THE OF LITH 17/	MOITA		

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Reference			William Control of the Control of th		Amount	ha 1994 (Parameter Francische aus eine geber einfelige, der eine der einem Vereinstehn des Aussahlen zu der	a a philiphological and the second of the formation of the second of the desire of the annual second of the second
					-	Bala	ance
Date	Particulars	BURS/JEV/RCI/RDAI No.	Utilization (a)	Payable (b)	Payment (c)	Not Yet Due (a-b)	Due and Demandable (b-c)
10/31/2023	BURS	02-308601-2023-10-000101	4,000,000.00	Antonio materia de Salvaria de Antonio de An			
		1					

TIN-001-006-578



& 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	77
VAT	
NOT. FEES	
LGT	
MISC	

SURETY BOND

TO TOTAL ALL A MENION THE DDECENTY.	
KNOWN ALL MEN BY THIS PRESENTS: SAFER PH INNO	NATIONS INC
SAFER PHINNO	Ave Ortigas Center Pasin City as Principal,
That we,2309.One.Corp.Ctr, Meralco.AveCorJ.varga	as Ave., Ortigas Center, Pasig City as Principal,
and THE PREMIER INSURANCE & SURETY CORPO	KATION, a corporation dury organized and extension
1 11 11 11 11 11 11 11 11 11 11 11 11 1	ncinal office at Mailla, as Surely, are ficial fitting bound
note the DOST - METALS INDUSTRY RESEARCH	MIND DEVERSOMENT SHATES
· A Section of the se	in the sum of
(I	1 200 000 00 Philippine Currency 101
the payment of which sum, well and truly to be made, w	e bind ourselves, our heirs, executors, administrators,
successors, and assigns jointly and severally, firmly by these	e presents.
Successors, and assigns jointry and beverany, many	
THE CONDITIONS OF THIS OBLIGATIONS ARE AS	SFOLLOWS:
THE PRESENT AND A STATE OF THE 17	'th day of October , 20 .23 has
WHEREAS, the above bounden principal, on the	CHE DEVT CTP to fully and faithfully
entered into contract withDOST.METALS INDUSTRY RESEARCE	and later the second se
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and the second constant of the constant	But the share named Bringing of its
WHEREAS, this bond is issued to ensure the full a	and faithful compliance of the above named, Principal of its
TOTAL OF MANAGED For the "Procus	rement Of One LozaSpopiy Of Labor and Materials for the
- I CONTROL OF THE MARKET INDUCTOR PRESSION ST	nd lievelooment seliter. Copy of willout is herete attached
made an integral part hereof; provided, however, that the lial	bility of the here Surety under this bond shall in no case
made an integral part fieled, provided, flowever, that the man	200 000(40).
exceed the sum of ONE MILLION TWO HUNDRED PESOS (Php1	,200,000
Part in the deal and the state of the state	d shall remain valid until the issuance by the Procuring Entity
	d shall remain valid diffil the issuance by the
of the Final Certificate of Acceptance.	A CONTRACTOR OF THE PARTY OF TH
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	A STATE OF THE PROPERTY OF THE
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	METALS WOUSHER HETCH LOUIS AND A DECEMBER OF
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 p	part of said contract.
WHEREAS, the insurance company shall require	re 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 stipulate	ed in said contract then, this obligation shall be null and
void, otherwise it shall remain in full force and effect.	0
The liability THE PREMIER INSURANCE & SU	RETY CORPORATION under this bond will expire
on October 17, 2024, and s	said bond will be cancelled 10 days after is expiration,
unless Surety is notified of any existing obligations the	reunder
WITNESS OUR HANDS AND SEALS this 17th	day of
in Manila Philippines	salatanian osaboten one o 🎜 . S
in Manila, Philippines.	1
	THE PREMIER INSURANCE & SURETY CORP.
SAFER PH INNOVATIONS, INC.	THE PREMIER INSURANCE & SURETY CORP. TIN-001-006-578
	1111-001/000-070



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	
ROBERT O. DIZON Executive Director	
I acknowledge receipt of this Notice on	(date of receipt)
Name of Bidder's Representative: ATTOBE JOY BOINDE TAS	
Authorized Signature:	4

Postal Address: MIRDC Compound, Gen. Santos Avenue, Bicutan Taguig City, 1631 Metro Manila; P.O. Box 2449 MCPO 1299 Makati City, Philippines Website

: www.mirdc.dost.gov.ph

Tel. Nos. : (02) 8837-0431 to 38 Fax No. : (02) 8837-0430 Email Add.: mirdc@mirdc.dost.gov.ph

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.

A A

- 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 abovementioned 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:

LINDSEX REX B. SAGGE

President and CEO

PHOEBE JOY S. BANDEJAS

Witness

Certified Funds Available

OHNNY G. QUINGCO
Accountant IV

ACKNOWLEDGMENT

Before me, a Notary Public for and in the _______ this ______ 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.

eid by Linder Rex Sagge Wills.

Very truly yours,

ROBERT ODIZON

Executive Director

Postal Address: MIRDC Compound, Gen. Santos Avenue, Bicutan Taguig City, 1631 Metro Manila; P.O. Box 2449 MCPO 1299 Makati City, Philippines

Website : www.mirdc.dost.gov.ph

Tel. Nos. : (02) 8837-0431 to 38 Fax No. : (02) 8837-0430 Email Add. : mirdc@mirdc.dost.gov.ph

BAC RESOLUTION DECLARING NOTICE OF AWARD AND RECOMMENDING FOR APPROVAL

RESOLUTION NO. 2023-015

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.

RODNEL O. TAMAYO

BAC Chair

ZALDAR GAYAHAN

BAC Member

ISIDRÓ D. MILLO

BAC Member

MARICIEL M. TEOGANGCO

TWG Member

ATTY. TRIXIE HAZEL C. VELUZ

BAC Vice Chair

ROMMEL N. COROÑA

BAC Member

PABLO QACUIN

TWG Member

JONATHAN Q. PUERTO

TWG Member

Approved () / Disapproved ()

ROBERT O. DIZON

Executive Director

Approved on ___