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Tel No. (042) 567 - 5273/5859/6234

Tele Fax No. (042) 567-5270

ABSTRACT OF QUOTATION

SOLICITATION Number: RSU-07-18 ABC: PhP18,352,000.00 QTY: 7

LOT-1: (a) CNC TOOL ROOM LATHE & (b) CNC TOOL ROOM WITH TOOL CHANGER (ABC: PhP8,500,000.00, QTY: 2)

Unit of Issue		Item Description		QTY	Estimated Unit Cost	Estimated Cost
Unit	CNC Toolroom Lati	<u>he</u> ; 16"x30"(406 x	762 mm)	1		
	max capacity, ch	ip enclosure, 20"	(508 mm)			
	swing, 10hp(7,5	kW) vector drive,	1800 rpm,			
	A2-5 spindle, Vi	sual Programming	System,			
	coolant pump, 1	GB program memory	,			
	memory lock keys	witch, air blow g	un,			
	15" color LCD mon	nitor and USB por	t.			
	With 10"(254 mm)	Manual 3-Jaw Scr				
	that features rem	movable hard top	jaws,			
	an A2-6mount, and	a 3.0"(76 mm)thr	ough-bore.			
	It accommodates	both OD and ID c	lamping,			
	and has a maximum	m speed rating of	2500 rpm.			
	The chuck is sel:	f-centering, with	an			
	industry-standar	d tongue-and-groo	ve design.			
	The spindle adapt	ter and chuck key	are			
	included. With ga	ang-style tooling	kit with			
	12 mm centers; in	ncludes 1 each si	ngle			
	position 20 mm I	D holders,2 each				
	double-position 2	20 mm ID holders,	2 each			
	turn/face holder:	s for 12 mm squar	e turning			
	tools, 2 each ax	ial turn/face hole	ders for			
	12 mm square turi	ning tools, 1 set				
	reducer bushings	: 20 mm to 16 mm,				
	and 10 mm. With	1.0" ID Boring B				
	for tool turret.	With Quick-Chan				
	Post; 2 position	, 4 each 3/4" tur				
	1 each 1.0" boring bar holder and T-nut.					
	SWING DIAMETER	S.A.E.	METRIC			
	Over Front Apron	20 "	508 mm			
	Over Cross Slide	11 "	279 mm			
	CAPACITIES	S.A.E.	METRIC			
	Chuck	As specified above	As specified above			
	Max Cutting Diameter (varies with turret)	16 "	406 mm			
	Max Cutting Length (without workholding)	30 "	762 mm			
	Between Centers	30 "	762 mm			
	TRAVELS & FEEDRATES	S.A.E.	METRIC			
	X Axis	8 "	203 mm			
	Z Axis	30 "	762 mm			
l	Rapids on X	450 in/min	11.4 m/min			
	Rapids on Z	450 in/min	11.4 m/min			



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	Max Thrust X	3894 lb	17 321 N	_
	Max Thrust Z	1947 lb	8661 N	_
	SPINDLE	S.A.E.	METRIC	-
	Max Rating	10 hp	7.5 kW	
	Max Speed	1800 rpm	1800 rpm	_
	Max Torque	108 ft-lb @ 355 rpm	146 Nm @ 355 rpm	_
	Spindle Nose	A2-5	A2-5	_
	Spindle Bore ø	2.3 "	58 mm	-
Unit	CNC Toolroom Mil	l with Tool Chang	ger;30"x12"x16"	
		mm), 40 taper, 7		
		0 rpm, full enclos		
		hanger, Visual Prog		
		tection module, 1		
	memory, memory 1	ock keyswitch, 15	5" color LCD	
	monitor and USB	port and 20-gallo	on (76 liter	
	flood coolant sy	stem, with Haas W	Vireless	
	Intuitive Probin	g System (WIPS).	The system	
	includes the Haa	s Visual Programm	ning System,	
	macros, spindle	orientation, and	coordinate	
	rotation and sca	ling. With the Ha	aas Automatic	
	Air Gun (AAG) th	at supplies high-	-pressure /	
	high-flow air di	rectly to the cut	ting zone to	
		ly and automatica		
		blow chips and c		
		th the Haas Minim		
) system that del		
	_	sed air and a sma		
		ctly to the cutti		
	_	ion, reduce heat,		
		high-flow coolant		
		11.Programmable C		
	_	nozzle that auto		
		precisely at the		
	_	the nozzle is co		
		set specifically operator time by		
		ents. Spindle Ori		
	_	dustry-standard M		
		inexpensive, repe		
		rate to 0.5 degre		
	r	33 0.0 degre	· - •	



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TRAVELS	S.A.E.	METRIC
- X Axis	30 "	762 mm
Y Axis	12 "	305 mm
Z Axis	16 "	406 mm
Spindle Nose to Table (~ max)	20 "	508 mm
Spindle Nose to Table (~ min)	4 "	102 mm
TABLE	S.A.E.	METRIC
Length	47.75 "	1213 mm
Width	10.5 "	267 mm
T-Slot Width	5/8 "	16 mm
T-Slot Center Distance	4.00 "	101.6 mm
Number of Std T- Slots	3	3
Max Weight on Table (evenly distributed)	1000 lb	454 kg
SPINDLE	S.A.E.	METRIC
Max Rating	7.5 hp	5.6 kW
Max Speed	6000 rpm	6000 rpm
Max Torque	33 ft-lb @ 1200 rpm	45 Nm @1200 rpm
Drive System	Direct Speed Belt Drive	Direct Speed Belt Drive



TOTAL

BIDS AND AWARDS COMMITTEE

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Taper	CT or BT 40	CT or BT 40		
Bearing Lubrication	Grease packed	Grease packed		
Cooling	Air Cooled	Air Cooled		
FEEDRATES	S.A.E.	METRIC		
Rapids on X	400 in/min	10.2 m/min		
Rapids on Y	400 in/min	10.2 m/min		
Rapids on Z	400 in/min	10.2 m/min		
Max Cutting	400 in/min	10.2 m/min		
AXIS MOTORS	S.A.E.	METRIC		
Max Thrust X	2000 lb	8896 N		
Max Thrust Y	2000 lb	8896 N		
Max Thrust Z	2000 lb	8896 N		
TOOL CHANGER	S.A.E.	METRIC		
Туре	Carousel	Carousel		
Capacity	10	10		
Max Tool Diameter (full)	3.5 "	89 mm		
Max Tool Weight	12 lb	5.4 kg		
GENERAL		METRIC		
Air Required	4 scfm, 100 psi	113 L/min, 6.9 bar		
	Note: Price is inclusive of delivery, installation, training and 1 year warranty			
		QTY		



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LOT-3: FEED PROCESSING MILL (ABC: PhP1,252,000.00, QTY: 1)

Unit of Issue	Item Description	ОТҮ	Estimated Unit Cost	Estimated Cost
	Feed Processing Mill. Post grind, mix and bag.			
	1-ton/hr commercial finished feeds. 4D30	1		
Unit	Mitsubishi Automotive Diesel Engine,			
	- One (1) unit loading elevator, 5" buckets,	1		
	floor-level mounted, complete with level loading	_		
	hopper with grates, transmission and drive.			
	- One (1) unit hammer mill, input capacity of			
	1.5 to 2 tons per hour., (based on 3/16 screen			
	perforation) complete with air relief system,			
	side door screen access design, hardened tip			
	hammers, loading hopper with controls, dust			
	suction blower mounted on steel base frame.			
	- One (1) unit Feed mixer elevators, 5 buckets,			
	floor level mounted complete with level loading			
	hopper with grates, transmission and drives.			
	-One(1)unit feed mixer, capacity of 250kg/batch,			
	ribbon type, center discharge, complete with			
	loading hopper, discharge gate, speed reducer,			
	sprocket ad chain drive, mounted steel base frame			
	- One (1)set 4D30 Automotive Diesel Engine			
	with Conversion.			
	- One (1) lot labor and materials such as gravel,			
	sand, cement, rebars, CHB, pipe lines for water			
	cooling system, main drive belts, foundation bolts,			
	form and lumber for installation purposes.			
	Note: Price is inclusive of delivery,			
	installation, training and 1 year warranty			
TOTAL	QTY	1		



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LOT-5: EXCAVATOR WITH BREAKER ATTACHMENT (FR150-7) (ABC: PhP6,000,000.00, QTY: 1)

Unit of Issue		Item Description	QTY	Estimated Unit Cost	Estimated Cost
	EXCAVATOR WITH BR	EAKER ATTACHMENT (FR150-7)			
Unit	Engine Power	6-cylinder in-line, Water cooling, Four stroke, turbo charging, intercooling diesel engine WP12.380E32 Weichai power Deisel Engine w/EGR, EURO III 280kW/380Hp @2200rpm	1		
	Displacement	11.596cc	1		
	Torque	1500Nm@(1300-1400rpm)	1		
	Transmission	12 forward shifts with hi and low splitter	1		
	Front Axle	Double I-beam (secondary axle steering)	1		
	Rear axle	Double reduction with interlock on wheels	1		
	Intermediate axle	Double reduction air actuated double differential	1		
	Clutch	Single disc, dry type, diaphragm spring	1		
	Suspension (front)	Longitudinal leaf spring with dual acting telescopic shock absorbers and anti-roll			
	Suspension (rear)	Inverted longitudinal leaf spring, balance shaft suspension and anti roll bar			
	Brake (Service brake)	Dual circuits pneumatic brake	4		
	Brake (Parking brake)	Energy-accumulating spring air-cutoff brake	4		
	Brake (Auxiliary brake)	Engine exhaust brake	4		
	Steering	Whole hydraulic power boosting steering gear	4		
	Tires/Wheels	12+1 /12.00-R20	-		
	Warranty:				
	2 years or 2,00	Ohours, whichever comes			
	first and will start on date of delivery				
	Unit must be maintained under company				
	maintenance only for the duration of				
	warranty period.Consumable parts are not				
	free (itemized	in warranty policies)			
	Terms of Payment:				
	Government				
	Services:				
	Pre-delivery ser	minar and orientation,			
	certificate is	given after orientation.			
		es operation, maintenance			
		aintenance procedures			
	An interval of	every 250 hours after the			
	first 250 hrs,	engine PMS is compulsory			
	under period of	warranty			
	Maintenance sch	edule sheet will be			
	provided as ref	erence			
	Free labor on t	he first PMS service,			
	at 250 hours of	maintenance only			
	On-site service	repair and maintenance			
	Service request	s: 2-3 days before dispatch			
	of technicians	after approval/signing of			
	conforme of ser	vice quotation 24/7			
	on-call and service assistance for rescue.				
	Note: Price is training and 1	inclusive of delivery, installation, year warranty			
TOTA L		дту	1	ESTIMATED COST	



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LOT-7 ELECTRICAL MACHINES (ABC: PhP1,800,000.00, QTY: 1)

Unit of Issue	Item Description	QTY	Estimated Unit Cost	Estimated Cost
Unit	Electrical machines	1		
	Dissectible Electrical Machine Manual Configurations			
	Fully dissectable experimental rotating machinessystem			
	Ac/dc power supply			
	Loads and Rheostat Module			
	Electrical Power Measurement Module			
	Electrical and Speed Measurement			
	Multimeter with virtual instrumentation			
	Parallel Board			
	Star/Delta Starter			
	Starting and Synchronization			
	Fault Simulators			
	Pole Changing Unit			
	B. Electromagnetic Brake			
	Adapter Bracket			
	Locking and Rotating Device			
	C. Motor Driven AC/DC Power Supply			
	Mechanical Power Measurement Module			
	Load Cell 100 N			
	Motor Driven Resistive Load Unit			
	Motor Driven Power Supply for Brake			
	Computerized Data Acquisition System Via USB			
	Data Acquisition and Processing Software			
	for Electric Machines		_	
	Note: Price is inclusive of delivery, installation, training and 1 year warranty			
TOTAL	QTY	1	ESTIMATED COST	



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LOT-11: RASPBERRY PI TRAINER (ABC: 800,000.00, QTY: 2)

Unit of Issue	Item Description	QTY	Estimated Unit Cost	Estimated Cost
Unit	Raspberry Pi Trainer	2		
	1. Hardware platform			
	1.1 Raspberry Pi3.Processor:Broadcom BCM2387 chipset,			
	1.2GHz Quadcore, ARM Cortex-A53; GPU: Dual			
	core video core IVAE RAM:1GB LPDDR2 SDRAM;			
	802.11 b/g/n Wireless LAN Composite video			
	/ 1080p HDMI Bluetooth 4.1 10/100 Ethernet.			
	1.2 Arduino ADK: AT mega 2560 Up to 20MIPS			
	throughput at 20MHz Boot loader			
	(USB to Serial program),			
	ISP program 256 Kbytes FLASH, 8Kbytes			
	bootloader 8Kbytes internal SRAM, 4Kbytes			
	EEPROM 15-channel PWM, 16-channel			
	10-bits ADC I2C, 4-UART, 54-DigitalI/O			
	2. Raspberry Pi3 adapter board. UART;			
	GPIO 40-pin connector: for connection with			
	raspberry Pi3; Power: +3.3V, 5V RS232C			
	support, I2C support, UART support,			
	J5 - J8 GPIO support.			
	3. LED Module. 8 Green LEDs, 8 Red LEDs			
	4. Buzzer module. DC SMD Piezzo			
	5. 7-Segment module. 6 digits 7-segment			
	6. Key PAD module. 16 push button switch.			
	7. 7-Sensor module. CDS sensor, Photo TR,			
	Temperature and humidity sensor			
	8. DC fan module. 25mm small size, DC fan.			
	9. DC motor module. Forward/reverse rotation DC Motor			
	10. Photo interrupter sensor module.			
	Operating voltage DC 5.0V Power supply needs.			
	5V interface type: Digital.			
	11. Vibration detection sensor module.			
	Fast response and high sensitivity.			
	Pin definition: S-signal V-VCC G-GND.			
	Material: gold-plated. Super wide			
	vibration detect range.No direction limit.			
	12. 3-axis compass sensor module.			
	Built-in drive circuit I2C digital interface.			
	12-bit ADC and low interference AMR sensor.			
	13. PIR Motion sensor module. Block time:			
	2.5s (default). Delay time: 5s (default).			
	Sentry angle: <110 degree. Sentry distance:			
	3m (default) - max 7m.			
	14. Pulse sensor module.			
	24 inch color-coded cable.			
	4 transparent stickers.			
	3 holes around the outside edge.			
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	An ear clip, perfectly sized to the sensor.			
	15. Ultrasonic sensor module. Power supply:			
	5V DC. Quiescent current:, 2mA. Effectual			
	angle:<15. Ranging distance: 2cm - 500cm.			
	16. Smoke sensor module.Power supply needs:			
	5V. Interface type: Analog. Pin definition:			
	S-signal V-VCC G-GND.Wide detecting scope.			
	17. Soil moisture sensor module.			
	Power supply: 3.3V or 5V.			
	Output voltage signal: 0-4.2V. Current:			
	35mA. Pin definition: Analog output (yellow wire)			
	18. Red LED module. Voltage: +3.3- 5V. Pin			
	definition: 1 signal (yellow) 2 VCC (Red),			
	3 GND (black).			
	19. Green LED module. Voltage: +3.3-5V.			
	Pin definition: 1 signal (yellow) 2 VCC			
	(red), 3 GND(black)			
	20. Active buzzer module. Power supply			
	needs: 5V. Interface type: Analog.			
	Pin definition: S-signal V-VCC, G-GND			
	21. Voice record module. Push button			
	interface. Automatic power-down mode.			
	On chip 8 speaker driver. Signal 3V. Power supply.			
	1. Camera module. Interface:			
	CSI (camera serial interface),			
	FPC 15P Cable. Sensor: 5MPixel.			
	23. Micro SD card. Frequency: 2.4GHz.			
	15G Micro SDHC. Size: 15mm x 11mm.			
	Transmission grade: Class 4.			
	Note: Price is inclusive of delivery, installation, training and 1 year warranty			
TOTAL	Qī	Υ 2	ESTIMATED COST	