Republic of the Philippines Office of the President

BASES CONVERSION and DEVELOPMENT AUTHORITY

2/F Bonifacio Technology Center, 31st Street corner 2nd Avenue
Bonifacio Global City, 1634 Taguig City
VAT Reg. TIN 002-219-694-000

PURCHASE ORDER

To: CERTEZA INFOSYS CORPORATION						ber	2017-12-0030				
7:-	d Floor VA	G Ruilding Ortigae Ave			PO Date		Decemi	per 29, 2017			
2nd Floor, VAG Building, Ortigas Ave., Greenhills, San Juan City					Payment		30 days				
GI	CCIIIIII3, 30	ii juan city			Mode of Procurement		Negotiated Procurement - SVP				
Attention: REYNALDO R. ADORADOR • Tel, No: 721-0113						elivery:					
TIN: 242-843-823-000 • Fax No: 727-0940 Place of Delivery:						30 to 60 calendar days upon receipt thereof					
	2/F Bonifacio Technology Center, Bonifacio Global City, Taguig City Tel No: 575-1790 • Fax No: 816-0996										
NO.	Ref Code	PRODUCT SPECIFICATIONS, Brand, Country of Origin				UNIT	UNIT PRICE	AMOUNT			
1		PROCUREMENT OF BCD	A SURVEYING EQUIPMENT			***************************************		9,344,000.0			
			***************************************	1	LOT		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		SMARTSTATION (Total : Angle Measurement	ATION (Total Station with Integrated GNSS)* asurement					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
)>>+++++++++++++++++++++++++++++++++++	Accuracy Hz and V	Absolute, continuous, quadruple	1" (0.03 mgon),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		Distance Measurement	(0004 0004	1.5 10.005							
		Range	Prism (GPR1, GPH1P)	1.5m to >10,000m			ļ	***************************************			
	••••••••••	Accuracy / Measurement	Non-Prism / Any surface	1.5m to 2,000m							
	***************************************		Single (prism) Single (any surface)	1mm + 1.5ppm / typically 1.5s 2mm + 2ppm / typically 1.5s							
		Laser dot size	At 50m	8mm x 20mm	 	***************************************		***************************************			
	***************************************	Measurement technology	•	Coaxial, visible red laser							
THE PERSON NAMED IN COLUMN 1	·········	Scanning				······					
		(1 sigma)	1000 Hz mode 250 Hz mode	300m / 1.0mm at 50m 400m / 0.8mm at 50m				············			
		***************************************	62 Hz mode	500m / 0.6mm at 50m		***************************************		***************************************			
			1 Hz mode	1000m / 0.6mm at 50m							
		Scan data	3D point cloud including true colo	ur, intensity and signal-to-noise data							
		Imaging				***************************************					
		Overview and telescope camera	Field of view	5 megapixel CMOS sensor 19.44° / 1.5°							
	·*************************************	Motorisation	Frame rate	·							
	122222222222222222222222222222222222222	Direct drives based on Piezo technology	Rotation speed / Time to change face	2.9s 2.9s		····					
		Automatic Aiming									
		Target aiming range / target locking range	Circular prism (GPR1, GPH1P) 360° prism (GRZ4, GRZ122)	1500m / 1000m 1000m / 1000m							
	**************************************	Accuracy / Measurement time	Angle accuracy HZ, V	1" (0.3 mgon) / typically 2.5s							
		Powersearch									
		Range / search time Guide Light	360° prism (GRZ4, GRZ122)	300m / typically 5s							
		Working range / Accuracy General		5-150m / typically 5cm @100m				·			
		Processor	TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™	Operating system - Windows EC7	***************************************			***************************************			
	************	Autofocus telescope	Magnification / Focus Range	30 x / 1.7m to infinity		***************************************					
		Display and keyboard	5" (inch), WVGA, colour, touch, both faces	37 keys, illumination							
		Operation	3x endless drives, 1x Servofocus drive, 2x Autofocus	keys, User-definable SmartKey	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
		Power management	Exchangeable Lithium-lon battery with internal charging capability	Operating time 7–9 h		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		411111111111111111111111111111111111111			
		Data storage	Internal memory / Memory card	2 GB / SD card 1 GB or 8 GB							
	•••••	Interfaces	RS232, USB, Bluetooth®, WLAN					***************************************			
	***************************************	Weight	MultiStation including battery Working temperature range Dust	7.7kg -20°C to + 50°C, IP65 / MIL-STD-810G, Method			***************************************				
		Environmental specifications	& Water (IEC 60529) / Blowing rain Humidity	506.5-1 95%, non-condensing							





Republic of the Philippines Office of the President

BASES CONVERSION and DEVELOPMENT AUTHORITY

2/F Bonifacio Technology Center, 31st Street corner 2nd Avenue Bonifacio Global City, 1634 Taguig City VAT Reg. TIN 002-219-694-000

PURCHASE ORDER

ro: CERTEZA INFOSYS CORPORATION						PO Number		17-12-0030									
2nd Floor, VAG Building, Ortigas Ave., Greenhills, San Juan City						PO Date Payment Mode of Procurement		December 29, 2017 30 days Negotiated Procurement - SVI									
										Att	ention:	REYNALDO R. ADORADO	DR	Date of I	elivery:		
										TIN	: 242-843-	823-000		 Fax No: 727-0940 			
ace of	Delivery:				-	30 to 60 cal	endar days upon rec	reipt thereof									
		2/F Bonifacio T	echnology Center, Bonifacio Glob	bal City, Taguig City													
		Tel No: 575-1700 * Fax No: 816-0996															
10.	Ref	PRODUCT SPECIFICATIONS, Brand, Country of Origin			Qty.	UNIT	UNIT PRICE	AMOUNT									
0.	Code	Standard Accessories															
								1									
	*********************		p accessories (Traverse Kit)														
	***************************************	1 set battery and charger	100000000000000000000000000000000000000	***************************************													
	cammannan	1 pc. processing software		***************************************	·												
	***************************************	1x processing laptop, Cor															
	***************************************	1 set One-Man Survey kit															
		1 Set One-Mail Bulvey Kit															
	***************************************	CNCC DTV (1 Dece	and 2 Rover Receivers)**					·									
2		GIASS- KIV (1 Base	unu z Rover Receiversj		1	LOT											
		Number of Channels	555 or more (more signals, fast ac														
		Signal Tracking	GPS (L1, L2, L2C, L5), Glonass (L1,					1									
			BeiDou (B1, B2, B32), Galileo (E1,]									
	····	L	QZSS, NaviC L5^3, SBAS (WAAS, E														
			Increased measurement	Calibration-free				1									
		Tilt Compensation	productivity and traceability	Immune to magnetic disturbances	1		No.										
				Integrated quality assurance of pole tilt													
		Smartcheck	Continuous check of RTK solution	Reliability 99.99%													

	***************************************	Measurement Performa	nce & Accuracy				1										
		RTK technology	SmartCheck, continuous check of I	RTK solution, reliability 99.99%				1									
		RTK data protocols	4G, CMR, CMR+, RTCM 2.2, 2.3,			***************************************	marin manananananananananananananananananana	1									
		NMEA output Network	3.U, 3.1, 3.2 MSM														
		RTK	NMEA 0183 V 4.00 VRS, FKP,														
			iMAX, MAC (RTCM SC 104)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
	***************************************		Typically 4s														
	***************************************	Code differential	DGPS / RTCM	Typically 25cm													
		Real-time kinematic	Single baseline (< 30km														
		(Compliant to ISO17123-	angle basenite (4 bokin	H2 8mm + 1ppm / V 15mm + 1ppm			100										
		8 standard)					1										
			Network RTK	Hz 8mm + 0.5ppm/V 15mm + 0.5ppm		***************************************											
		Real-time kinematic tilt		Additional Hz pole tip uncertainty typically less	l	***************************************											
-		compensated	control points)	than 10mm + 0.7mm /degree tilt				9									
			Static (phase) with long			***************************************											
		Post processing	observations	Hz 3mm + 0.1ppm / V 3.5mm + 0.4ppm													
			Static and rapid static (phase)	Hz 3mm + 0.5ppm / V 5mm + 0.5ppm			····	1									
		Position Update & Data I		5 Hz / 20 Hz positioning		***************************************	***************************************										
				Raw data / RINEX data logging				***************************************									
-		***************************************			 -												
		Communication		NMEA out													
	***************************************	Communications			<u> </u>												
			Lemo	USB and RS232 serial													
	,		Bluetooth®	Bluetooth® v2.00 + EDR, class 1.5	L												
	***************************************	Communication		TPS Integration	J			I									
		Communication protocols	RTK data protocols	4G, CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM													
		PLOCOCOIS	***************************************			***************************************											
		The state of the s	NMEA output	NMEA 0183 V 4.00		***************************************		ļ									
		***************************************	Network RTK	VRS, FKP, IMAX, MAC (RTCM SC 104)				ļ									
		Built-in data links CD	3.75G GSM / UMTS /	Fully integrated, internal antenna			pend refer										
-			CDMA phone modem	Fully integrated, receive and transmit, external			No. of the last of										
New Street				antenna 403 - 470 MHz, 1 W output power, up to 28800			994										
-				bps over air													
				GSM / GPRS / UMTS / CDMA and UHF / VHF													
		External data links		modem													
																	
		User interface	Buttons and LEDs	On/Off and Function button, 8 status LEDs													
		oser mieliace		Full status information and configuration				T									
				and the companies	1		i	i									
				options				THE									
				options Removable SD card, 8 GB				Till State of the									