Supplier: MOLAVE TRADING INC.

Address: Acero Building, 891 E. Delos Santos Ave., Quezon City
TIN:

Gentlemen: Public Bidding

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

Date of Delivery : Stock/ Property	• • •	Metrology Building	Delivery Ter Payment Ter	rm: 120 calendar day rm:	VS
No.	nit	Description	Quantity	Unit Cost	Amount
10	ot	Supply, Delivery, Installation and Commissioning of One (1) unit X-ray Crystallography	1	19,998,000.00	19,998,000.00
		Brand: D8 Quest Eco The D8 QUEST Eco is full-featured, easy-to-use research instrument providing fast 3D structures, complementary to NMR and mass spectroscopy, enabling the full range of service crystallography. The D8 QUEST Eco chemical crystallography X-ray system is capable of high-speed data collection with the latest photon- counting CPAD detector ensuring excellent data quality and unprecedented lata acquisition efficiency.			
D/2-402	10 S 10 S 10 I 10 I 10 S 10 S	nclusions: Basic System tandard cabinet, enclosure, controller kW Generator, tube housing, with internal cooling unit ube mount adapter for single source caled tube, monochromator adapter ate Mo orizontal Goniometer onfiguration tested PC - Windows, bit, English 10-230V 1p 50/60Hz, for IµS 2kVA d ECO 3kVA (all)	1 1 1 1		

Page 1 of 37

EMAILED

@: Recipient: Date: <u>09 -27-27</u>: shalle

Supplier : Address :	A gara D	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD	
TIN:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 20			
Gentlemen:			Mode of Procurement: Public Bidding			
	furnish this	Office the City				
Ticasc	Turrish tins	Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery : Metrology Building			Dalinama	100		
Date of Delivery		Junuing		: 120 calendar day	'S	
Stock/ Property	1		Payment Term	:		
No.	Unit	it Description	Quantity	Unit Cost	Amount	
	NO AUR G	D8 QUEST ECO				
	010-543	Triumph Monochromator Mo	1			
	010-506	Beamstop, first source, 2.0 mm	1			
		Fixed Chi Stage	1		x	
	010-1944	Goniometer Head Manual	1			
		DIATON III OZ	2	-		
		PHOTON III C7	1			
	DIO_ 1130	Mount for PHOTON detector,	1			
,-	No VCI	measurement height 214mm				
	010_K94	Two Pinhole Collimator 0.6/21mrad	1			
		X-ray Tube, KFF Mo 1KC, 2.0 kW Mo	1			
		point				
	DIO_ 603	4-axes motor driver board	1			
		10m power cable for 200-230V 1p	1			
		50/60Hz, for IMS 2kVA and ECO				
		3kVA (all)				
	DIS_U29	Detector Track, manual, distance	1	-		
		detection system				
	D10-133	Video microscope SCD, standard	1			
		definition	1			
	D12-711	Reference crystal Ylid for SCD	1			
		Steel Ball for SCD	1			
		APEX4 w. SHELXTL S/W, Win	1			
		(site lic. Suppl.w. D8 QUEST / D8	1			
		VENTURE)				
		*Magnet Base to mount on XYZ-Goniom.	2	> .		
		head (9.3mm, 9000 Gauss)	2			
4	(430C14 1	Crystalpj ALS HT HR8-204, 0.1 - 0.2	1			
	1	MM (30 pack)				
/		Crystalpin ALS HT HR8-208, 0.3 - 0.4	1			
		MM (30 pack)	1			
A	4/308/7	*Oil for Crystal mounting - NVH				
	-10	on for Crystal mounting - NVH	1			
		Page 2 of 37				

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Supplier : Address :	Acero I	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (FRE		
TIN:	ACCIO I	Building, 891 E. Delos Santos Ave., Quezon City	Date:	Septembe	er 4 2023		
Gentlemen:			Mode of Procurement: Public Bidding				
	furnish thi	s Office the following outstand the		The second secon	8		
		is Office the following articles subject to the terms	s and conditions	s contained herein:			
Place of Delivery	<i>'</i> :	Metrology Building					
Date of Delivery		S. C.	Denvery Term	ı: 120 calendar day	'S		
Stock/ Property	Unit		Payment Term	1:			
No.	Om	Description	Quantity	Unit Cost	Amount		
	700	A. I					
		Application Training for two endusers at	1				
		Bruker Singapore					
		Continuous ink printer (colored and black)	1 1				
The state of the s		and UPS with AVR function for PC					
Account		system UPS, 10kVA					
		AVR, 10kVA	1				
		T, IV, IUKVA	1				
		Detailed Description of Items					
		Basic Systems					
10	DIO ADLID	Standard cabinet, enclosure, controller					
		and edomet, enclosure, controller	PLICATION				
Ang		Compact Radiation Safety Enclosure	in the second				
The state of the s		The small footprint radiation safety	THE PROPERTY OF THE PROPERTY O				
		enclosure combines a maximum of					
		operating convenience and ergonomics with					
		excellent goniometer and sample visibility.					
		The large swing door provides excellent		and of the state o			
		access to the goniometer. Clearly visible					
		LED lights indicate the X-ray status. Smart	and the state of t				
- Consequence		screen key displays show the status of the					
		instrument and ensure an intuitive					
Personal		operation. The enclosure is illuminated by a	***************************************				
		series of dimmable white LED's.	-	and the state of t			
		Depending on configuration racks mounted					
		inside the enclosure provide easy access	-				
- Annual Principles	1	and storage space for optics and					
and the state of t		accessories. The enclosure offers an X-ray					
		tight labyrinth for feeding-through cables					
Manager address	18	and hoses.	Day 1000, State of St				
	e de la constanta de la consta		and the second s				
				•			
		P					
	The second secon	Page 3 of 37					

AND DESCRIPTIONS OF THE PROPERTY OF THE PROPER		MOLAVE TRADING INC.	P.O. No.:	CIAE PO 2022	00 0021 00	
Address : TIN :	Acero E	Building, 891 E. Delos Santos Ave., Quezon City	Date:	September 4, 2023		
Gentlemen:			Mode of Procurement: Public Bidding			
Please	furnish thi	s Office the following articles subject to the terms	and conditions	contained herein.		
lace of Delivery		Metrology Building				
Date of Delivery		Metrology Building	Delivery Term	: 120 calendar day	/S	
Stock/ Property	Unit	D	Payment Term	:		
No.	~	Description	Quantity	Unit Cost	Amount	
		The enclosure hosts the controller				
		interface to the goniometer and offers room				
		for additional 19" control electronics. A		=		
		series of eight internal sockets assures				
department of the second		a safe and clean cable management.				
And the second s		Cofeton				
		Safety:		-		
		The instrument complies with the requirements of the Machinery Directive	-			
		2006/42/EC. In addition, the instrument				
		is in conformity with the directives 2014/35				
		EU relating to electric equipment and	To the second			
		2014/30/EU relating to electromagnetic				
		compatibility.	The state of the s			
		Maximum X-ray safety is guaranteed due				
		to two independent fail-safe safety circuits				
-		The maximum radiation level is				
		significantly below 1 micro-Sievert/h				
		under measurement conditions.		and the second second		
d control of the cont		Dimensions:				
	- 1	Height x Width x Depth:				
	o de la companie de l	187 cm x 130 cm x 114 cm				
		73.5 inch x 51.2 inch x 44.7 inch				
Out and a second control of the second contr		Weight:				
		Approximately 750 kg (depending on	ent transmission			
Stateman a pagear		configuration and accessories)	The second second	-		
		31.23)				
	and state of the	×				

Page 4 of 37

Supplier : Address :	Acero F	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD
TIN:	7100101	Building, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 20		
Gentlemen:	· · · · · · · · · · · · · · · · · · ·			urement: Public Bi	dding
Please f	ùrnish thi	s Office the following articles subject to the terms	and conditions	contained havein	
Place of Delivery			on conditions	contained herein:	
Date of Delivery:		Metrology Building	Delivery Term	ı: 120 calendar day	'S
Stock/ Property			Payment Term	1:	
No.	Unit	Description	Quantity	Unit Cost	Amount
		The enclosure hosts the controller interface to the goniometer and offers room for additional 19" control electronics. A series of eight internal sockets assures a safe and clean cable management. Safety: The instrument complies with the requirements of the Machinery Directive 2006/42/EC. In addition, the instrument is in conformity with the directives 2014/35 EU relating to electric equipment and 2014/30/EU relating to electromagnetic compatibility. Maximum X-ray safety is guaranteed due to two independent fail-safe safety circuits. The maximum radiation level is significantly below 1 micro-Sievert/h under measurement conditions. Dimensions: Height x Width x Depth: 187 cm x 130 cm x 114 cm 73.5 inch x 51.2 inch x 44.7 inch Weight: Approximately 750 kg (depending on configuration and accessories)			
		Page 4 of 37			

Page 4 of 37

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (ERD)		
Address : TIN :	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	y Date: September 4, 2023				
Gentlemen:	The second secon		Mode of Procurement: Public Bidding				
Please	furnish this	Office the following articles subject to the terms	and conditions	contained herein:			
Place of Delivery: Metrology Building			Delivery Term	ı: 120 calendar day	/S		
Stock/ Property No.	-		Payment Term :				
		I kW Generator, tube housing with internal cooling unit I KW GENERATOR WITH INTERNAL COOLING UNIT High stability, medium frequency design high voltage volume power supply for the X-ray tube. The generator is provided with a routine for the automatic-burn-in of X-ray tubes to facilitate maximum tube lifetime. The internal cooling units fits into the enclosure and requires no external water cooling. The water unit is equipped with a deionization filter to avoid the growth of algae.	1		Amount		
	ND 2002 20	Technical data: - Maximum continuous power: 1 kW - High voltage: 20-50 kV, adjustable in steps of 1 kV - Current: 5-60 mA, adjustable in steps of 1 mA - Stability: <0.005% for high voltage and current with 10% variation of main supply Tube mount adapter for single source sealed tube, monochromator adapter plate Mo	I				

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Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (FRD)	
Address:	Acero E	Building, 891 E. Delos Santos Ave., Quezon City	y Date: September 4, 2023			
TIN : Gentlemen:	***************************************		Mode of Procurement: Public Bidding			
	furnish thi	is Office the following articles subject to the terms	1 1			
		e emee the following afficies subject to the terms	and conditions	contained herein:		
Place of Delivery		Metrology Building	Delivery Term	ı: 120 calendar day	/ C	
Date of Delivery			Payment Term	3		
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	4	
110.			- Quantity	Omit Cost	Amount	
		BEAM PATH FOR SEALED TUBE				
		WITH MONOCHROMATOR FOR				
and the second		MOLYBENUM RADIATION				
		The solid beam path unit mounts directly				
		into the groove ring of the D8 goniometer				
		and features an ultimately user-friendly				
		down-stream alignment. It is manufactured				
		with smallest backlash for highest accuracy				
		and accommodates the tube mount				
-		including the support for the graphite or				
		TRIUMPH monochromator. The				
		magnetic SNAP-IN coupling mounts and				
The state of the s		positions the collimator. Mounting bays				
		for the video microscrope and the primary				
		beam stop complete the assembly.				
		Sample Illumination		Processor and the second secon		
		For sample illumination a high brilliance,				
		high intensity via LED is provided. The				
		LED produces strong white light, which				
		is remotely dimmable.				
		Tomotory dimination.		1		
t)10_AOC_1	Horizontal Goniometer	1			
		HORIZONTAL GONIOMETER				
		Highly-accurate, high-precision, two-cirle				
		goniometer with independent stepper motors				
		and optical encoders.				
		A				
		Page 6 of 37				

Page 6 of 37

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)		
Address: TIN:	Acero E	Building, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023				
Gentlemen:			Mode of Procurement: Public Bidding				
Please	furnish thi	s Office the following articles subject to the terms	and conditions	contained herein:			
Place of Delivery		Metrology Building					
Date of Delivery			Payment Term	n: 120 calendar day	S		
Stock/ Property No.	Unit Description	Quantity	Unit Cost	Amount			
		Technical data:					
		Horizontal goniometer					
		Angular range: 360°C (without accessories)					
		Angular positioning: stepper motors with			*		
		optical encoders					
		Smallesr addressable increment: 0.0001°C					
		Maximum angular speed: 20°C/s		and the state of t			
		(depending on accessories)					
		Accuracy; 0.0005°					
1		Reproducibility: 0.0002°					
		Bruker provides a ten-year warranty on					
		the goniometer.					
	DIO_ A06_	Configuration tested PC - Windows, 64 bit, English	1				
		English					
		Dedicated, configuration tested tower PC		integration of the state of the			
		for instrument control:	n.org.				
		Intel Core i7-8700					
		16 GB RAM					
-		256 GB SSD					
		2. b TB hard disk drive					
		27" LED monitor					
		US/INT-keyboard					
		Optical mouse					
		SATA DVD-RW					
		Operating System: Windows 10 Pro, IoT					
		EnT CBB High End EPKEA (ESD) COA,					
		English MS Off 2010/2021					
		MS Office 2019/2021 Page 7 of 37					

Page 7 of 37

Supplier : Address :	Acero B	MOLAVE TRADING INC. uilding, 891 E. Delos Santos Ave., Quezon City	P.O. No. : Date :	GIAE-PO-2023-		
TIN:			ty Date: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen: Please	furnish this	Office the following articles subject to the			5	
		Office the following articles subject to the terms	s and conditions	contained herein:		
Place of Delivery Date of Delivery		Metrology Building	Delivery Term	: 120 calendar days	S	
Stock/ Property	T		Payment Term	· .		
No.	Unit	Description	Quantity	Unit Cost	Amount	
		Technical changes are possible, features may be upgraded at time of delivery.				
	DIO_407-7	200-230V lp 50/60Hz, for lµS 2kVA and ECO 3kVA (all)	1			
		ELECTRICAL SUPPLY		=		
		Electrical supply: 200-230 V, 50/60Hz, single-phase Maximum power consumption: 2 kVA for luS-based systems				
		Maximum power consumption: 3 kVA for D8 ADVANCE ECO and D8 QUEST ECO systems				
	DID_ 408 G	D8 QUEST ECO	I			
		D8 QUEST ECO SYSTEM FOR CHEMICAL CRYSTALLOGRAPHY				
		The D8 QUEST ECO is a fully featured research instrument. The D8 QUEST ECO diffractometer is housed in a compact				
	1	X-ray safety enclosure requiring minimal installation requirements.				
		Full compatibility with the D8 diffractometer family provides flexibility for the future as the system can be easily upgraded with high				
		Derformance source and detector options. Crystal centering can be made even easier by adding the AGH.				

Supplier:		MOLAVE TRADING INC.	P.O. No. :	Old Dag	
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date :	GIAE-PO-2023	-09-0931 (EBD)
IN:			2000 W 367	urement : Public Bi	er 4, 2023
Gentlemen:					dding
Please f	urnish this	Office the following articles subject to the terms	and conditions	contained herein:	
lace of Delivery				contained herein.	
ate of Delivery:		Metrology Building	Delivery Term	ı: 120 calendar day	/C
tock/ Property			Payment Term	i:	.5
No.	Unit	Description	Quantity	Unit Cost	Amount
	3 T an gg	Chemical Crystallography The D8 QUEST ECO covers applications in organic and inorganic chemistry, metalorganic and solid-state chemistry as well as mineralogy and pharmacy. It is configurable for the investigation electron densities or measurements under non-ambient conditions, suc as high- or low-temperature studies or the investigation of phase-transitions. I kW Sealed tube X-ray source with FRIUMPH monochromator The 1 kW Mo sealed tube source features a long tube lifetime and internal water chiller. With the TRIUMPH monochromator, the souce delivers a nigh-flux X-ray beam ideally suited for a wide variety of applications in chemical rystallography. -axis goniometer The D8 QUEST ECO features the highly ccurate, high-precision, fixed-chi oniometer with optical encoders. Large can range continuous rotation about mega, phi, and 2-theta axes provides full experimental flexibility and delivers omplete data sets down to 0.4 A resolution.			

Supplier : Address : TIN :	Acero E	MOLAVE TRADING INC. Building, 891 E. Delos Santos Ave., Quezon City	P.O. No.: GIAE-PO-2023-09-0931 (EDate: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen: Please t	furnish thi	s Office the following articles subject to the terms			ldding	
Place of Delivery Date of Delivery		Metrology Building	Delivery Term: 120 calendar days Payment Term:			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		PHOTON III 7 detector The PHOTON III 7 is a large area (7.000 mm^2) detector using state-of-the-art photon counting CPAD technology. The air-cooled PHOTON III 7 delivers excellent spatial accuracy and exceptional sensitivity to Mo radiation, enabling high quality structure determination from a broad range of crystal types. The crystal-detector distance is fully adjustable between 35-240 mm to allow optimal spatial resolution of the diffraction pattern. APEX Software Suite A site license is provided for the full APEX suit of software including the STRUCTURE NOW automation routine. The APEX suites provides an intuitive user interface which includes plug-ins for instrument control, data collection and processing, structure determination and report generation. A plug-in for collecting and processing powder diffraction data is also included as standard. Manuals The system is shipped with a comprehensive package of operation manuals for software and hardware (on CD-ROM).				

Supplier : Address :	Acero P	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	3-09-0931 (EBI		
TIN:	. reero L	Building, 891 E. Delos Santos Ave., Quezon City	Date ;	Septembe	er 4, 2023		
Gentlemen:			Mode of Procurement : Public Bidding				
Please	furnish thi	s Office the following articles subject to the terms	s and conditions	contained !			
			o and conditions	contained nerein:			
Place of Delivery Date of Delivery		Metrology Building	Delivery Term	n: 120 calendar day	/\$		
Stock/ Property	T		Delivery Term: 120 calendar days Payment Term:				
No.	Unit	Description	Quantity Unit Cost Amou				
	D10_843	Triumph Monochromator Mo	1				
		TRIUMPH MONOCHROMATOR FOR MOLYBDENUM RADIATION					
		Curved crystal X-ray monochromator for the generation of monochromatic Mo-K					
		(alpha) radiation from a sealed X-ray tube. The TRIUMPH monochromator provides a top hat shaped beam profile, which					
		makes it ideal for research dealing with a variety of crystal sizes. The TRIUMPH monochromator delivers an up to 3 times					
		higher intensity compared to a flat graphite X-ray monochromator.					
P	10-502	Beamstop, first source, 2.0 mm	1				
		BEAM STOP FOR SINGLE/FIRST SOURCE, 2.0 MM					
	11	Beam stop, including magnetic SNAP-IN mount with 3-point support and component recognition.					
D	110-p42	Fixed Chi Stage	1				
	other	TXED-CHI SAMPLE STAGE					
	0	The fixed-chi sample stage 3-axis mounts on the omega axis of the horizontal		,			
		oniometer and supports a 360° phi drive Page 11 of 37					

Supplier:	MOLAVE TRADING INC.	P.O. No. :	CIAE DO 2022		
Address: Acer	o Building, 891 E. Delos Santos Ave., Quezon City	Date:	GIAE-PO-2023	6-09-0931 (EBD	
IIIV.			5cptcmbcr 4, 2023		
Gentlemen:		Mode of Procurement: Public Bidding			
Please furnish	this Office the following articles subject to the terms	and conditions	Contained barries		
		201141110113	contained herein;		
Place of Delivery:	Metrology Building	Delivery Term	: 120 calendar day	16	
Date of Delivery:		Payment Term	:	/5	
Stock/ Property Uni	t Description				
110.	2 contputor	Quantity	Unit Cost	Amount	
Plo, pa	mounted in the magic angle of 54.7 degrees. The open geometry has minimal obstruction and allows mounting of additional crystal conditioning devices easily. This enables for efficient data collection with the smallest possible number of scans and a minimized total data collection time - even for samples with low symmetry. The fixed-chi stage can be used with a manual or a motorized detector track. The fixed-chi stage has a minimum of moving parts which makes it very stable and robust. Technical data: Stepper motor with optical encoders Phi: Angular Range: n*360° Speed: 0.00°/min - 1500°/min Accuracy: 0.025° Reproducibility: 0.001° Magic Angle: 54.7° Sphere of confusion: 7 micrometer Half-beam alignment tool included. Goniometer Head Manual XYZ GONIOMETER HEAD The XYZ-goniometer head is required for manual sample mounting on Bruker SC-XRD systems. The goniometer head	2			

Supplier : Address :	Acero B	MOLAVE TRADING INC. Building, 891 E. Delos Santos Ave., Quezon City	P.O. No. :	GIAE-PO-2023	
TIN:	Treelo E		Date: September 4, 2023 Mode of Procurement: Public Bidding		
Gentlemen: Please	furnish thi	s Office the following articles subject to the terms			danig
lace of Delivery Pate of Delivery	:	Metrology Building	Delivery Term Payment Term	: 120 calendar day	S
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
	7	meets the IUCR standard. An adjustment pin allows changing the standard height from 49 mm to 64 mm. X. Y. Z translations can be adjusted by 2 mm each. The weight of the XYZ goniometer head is 120 g. Sample mounting pins, goniometer-head key, and a storage box are included			
	DIO_DY	as accessories. PHOTON III C7 PHOTON III C7 CPAD AREA	1		
		DETECTOR (7X10) The PHOTON III is the first pixel array detector to support both photon counting and charge integration for the best sensitivity and dynamic range. This Mixed Mode' operation dramatically improves both productivity and data quality.			
		The PHOTON III C7 features high quantum efficiency across a wide energy range. By design the PHOTON III is charge sharing noise free and does not suffer from count rate saturation. The PHOTON III detector features 14 milliseconds frame read out as well as Page 13 of 37			

Supplier : Address :	A cero I	MOLAVE TRADING INC.	P.O. No. :	CIAE PO 2022	2 00 0024
TIN:	ACCIO I	Building, 891 E. Delos Santos Ave., Quezon City	Date:	GIAE-PO-2023	5-09-0931 (EBI
Gentlemen:			Mode of Proc	urement : Public B	er 4, 2023
	irnich th		1 277.00	drement. Fublic B	idding
r rease r	U1111511 [1]	is Office the following articles subject to the terms	and conditions	S contained haveing	
Place of Delivery			=======================================	contained herein:	
Date of Delivery :		Metrology Building	Delivery Term	ı: 120 calendar day	10
Stock/ Property			Payment Term	1:	y S
No.	Unit	Description	Quantity	T	
			Quantity	Unit Cost	Amount
		zero dead time between frames for fast			
		data collection. The detector supports			
		destructive reat out (DR) and non-			
		destructive read out (NDD) A L			
		destructive read out (NDR). Adaptive			
		oversampling (AO), an extension of the			
		measurement of correlated frames, uses			
		varying combinations and DRs and NDRs			
		to match detector operation to the			
		diffraction properties of the sample.			
		The DHOTON HILL			
		The PHOTON III incorporates a powerful			
		Digital Signal Processing (DSP) unit for			
		real time data processing and is	the second of		
		operated in shutterless data acquisition			
		mode. The PHOTON III is a low			
		maintenance, low power consumption			
		detector that is air cooled. Sensitive	1		
		parts are sealed under atmospheric	On Continue		
		pressure and the detector does not require	distribution of the state of th		
Miles constitution of the		any dry air gas purge. The use of dedicated,			
	[1	nigh resolution rare-earth scintillators			
	(ensures that the Shannon-Nyquist		-	
	S	sampling criterion is fully satisfied.			
		at any satisfied.	and		
		Jp to high energies the PHOTON III			
	la	chieves negligible parallax error.			
		regulation paramax effor.			
	. M	echnical data:			
		Detector type: 4th generation Charge			
	1,	negrating Pixel Array (CPAD), latest			
	lo.	ivel array detector tool	w the management		
	F	Active error (0) John logy			
	-	Active area: 69 x 104 mm ²			
		Page 14 of 37			

Supplier : Address :	Λ	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
TIN:	Acero E	Building, 891 E. Delos Santos Ave., Quezon City	y Date: September 4, 2023			
Gentlemen:						
Please f	ùrnish thi	s Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery		Metrology Building	Delivery Term	ı: 120 calendar day	10	
Date of Delivery:			Payment Term	i: 120 calendar day	/\$	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		- Read out frequency: 70 Hz				
		- Maximum count rate: 4 x 10^6 counts/				
		pixel-sec			(9)	
		- Read out dead time: 0 sec (full				
		shutterless operation)		and the second		
		- Dimension:				
		Width: 152.0mm				
		Height: 161.5mm				
		Depth: 156.3mm				
		- Size of dead areas: zero, single monolithic sensor				
September 1		- Dynamic range: > 200,000				
		- 100% of the pixel area is fully sensitive				
distance in the second		to X-rays				
		- Charge sharing noise: 0 electrons, by			*	
		design				
		- Shannon-Nyquist sampling criterion is				
		fully satisfied				
		- Parallax at high incident angle: < 1 pixel				
		(for Ag and Mo)	- Commence of the Commence of			
		- Count-rate nonlinearity: <1% (up to full				
=		count rate)				
		- High defective quantum efficiency (DQE);				
		Quantum Efficiency vs. Energy 100% @ 8.1 KeV (Cu)				
		100% @ 12.4 KeV (Ctt)	diameter sales			
		92% @ 17.5 KeV (Mo)				
		73% @ 22.2 KeV (Ag)				
		65% @ 24.2 KeV (In)				
		Weight: ~3.5 Kg				
	automataine and an	- Cooling water or operating gas				
		requirements: not required, completely				
		sealed design, air-cooled Page 15 of 37				

Page 15 of 37

Supplier:	-	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (FRD)	
Address : TIN :	Acero Bi	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023			
Gentlemen:	,		Mode of Procurement: Public Bidding			
Please		Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery Date of Delivery		Metrology Building	Delivery Term Payment Term	: 120 calendar day	S	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
	0.2	- Warranty: 3 years			7 CHIOCHT	
	NO 11/30	Mount for PHOTON detector, measurement height 214mm				
		MOUNT FOR PHOTON DETECTOR Mount for PHOTON detector, measurement height 214mm				
		Two Pinhole Collimator 0.6/21mrad TWO PINHOLE COLLIMATOR 0.6MM/21 MRAD	1			
		Two pinhole collimator, including magnetic SNAP-IN mount with 3-point support and component recognition.				
		X-ray Tube, KFF Mo 1KC, 2.0 kW Mo, point	1			
		X-RAY TUBE, KFF MO 1KC, 2.0 KW, POINT			a l	
	1	Fine focus tube with Mo-anode and ceramic insulation body		=		
	and other control of the control of	Fechnical data: Point focus Maximum power load: 2.0 kW				
		Standard settings: 50KV, 40mA Optical focus at 6 degrees take off angle: 0.4 x 0.8 mm				

Supplier: MOLAVE TRADING INC. Address: P.O. No.: Acero Building, 891 E. Delos Santos Ave., Quezon City GIAE-PO-2023-09-0931 (EBD) TIN: Date: September 4, 2023 Mode of Procurement: Public Bidding Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein: Place of Delivery: Metrology Building Delivery Term: 120 calendar days Date of Delivery: Stock/ Property Payment Term: Unit No. Description Quantity Unit Cost Amount 010_ E03 4-axes motor driver board 1 4-AXES MOTOR DRIVER BOARD Stepper motor controller with encoder readout for a maximum of four motors. DID-EN POWER CABLE 10 m power cable for 200-230 V, 50/60Hz, single-phase For luS-based systems (2 kVA), and D8 ADVANCE ECO and D8 QUEST ECO (3 kVA)DIO_UM DETECTOR TRACK WITH DISTANCE **DETECTION SYSTEM** The track mounts on the theta axis of a horizontal goniometer and allows for a manual positioning of the detector. The detector position is constantly read by the distance detection syste, and the instrument software is updated on-line. Technical data: Sample to detector distance: 35-240mm Distance detection system Video microscope SCD, standard 1 definition Page 17 of 37

Address:	Acero I	MOLAVE TRADING INC. Building, 891 E. Delos Santos Ave., Quezon City	P.O. No.:	GIAE-PO-2023	-09-0931 (ER	
TIN:		E. Delos Santos Ave., Quezon City	Date:	Septembe	tember 4 2023	
Gentlemen:			Mode of Prod	curement : Public Bi	dding	
Please for	arnish thi	is Office the following articles subject to the terms	and condition		-	
lace of Delivery			and condition	s contained herein:		
Pate of Delivery:		Metrology Building	Delivery Terr	n: 120 calendar day		
tock/ Property			Payment Terr	n :	S	
No.	Unit	Description	Quantity	Unit Cost	Amount	
		INTEGRATED VIDEO MICROSCOPE				
		Video microscope for live image of the sample on the screen of the control terminal. Control software provides crosshair and optional grid for crystal centering and monitoring. Camera is fully integrated for semi-automated face indexing crystal description for integrated numerical absorption correction. The 1000baseT interface supports remote streaming and multicasting. Technical data: Magnification: 4 x (optical), 1245488x (electronical) Field of vision: 1.2 mm Resolution: 1292*964 pixel Max. frame rate: 30 fps Working distance: 65 mm				
Djo	Į,	Aperture: F27.0 Reference crystal Ylid for SCD				
		TEST SAMPLE MOUNTED ON PIN				
	fi	A magnetic-base mounted Sulphonium // Iid crystal (sample), is used for the actory's system test procedure. The dentical sample will be delivered with the system.				

Supplier : Address :	Α	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-202	3-09-0931 (EBD)
TIN:	Acero I	Building, 891 E. Delos Santos Ave., Quezon City	Date:	September 4, 2023	
Gentlemen:			Mode of Procu	Bidding	
	urnish th	s Office the following articles subject to the terms	and conditions		The state of the s
		arderes subject to the terms	s and conditions	contained herein:	
Place of Delivery		Metrology Building	Delivery Term	i: 120 calendar da	VC
Date of Delivery:			Payment Term	i: 120 caichdaí da	.ys
Stock/ Property	Unit	Description			
No.	***************************************	Description	Quantity	Unit Cost	Amount
		collimators and bagmetons automatically			
		collimators and beamstops automatically. Obscuration of the detector by components			
		of the goniometer is minimized and			
		collisions are made impressible A DEVA			
es e		collisions are made impossible APEX4 controls all instruments running Bruker			
		Instrument Service (BIS) while data from			
		previous generations and numerous third			
		party equipment can be processed off-line.			
		processed off-fine.			
		The package comprises of an easy-to-use			
		graphical under interface (GUI) with			
		extensive feedback and on-line help.			
		The suite offers a wealth of tools for basic			
		operations and automation, such as remote			
		control of the X-ray generator (s) from			
		standby to full power and back, control			
		for driving the diffractometer and shutter			
		operations. Optiona low-temperature		e de la companya de l	
		devices, such as the Cryostream 800,		and the state of t	
		Cobra or N-HELIX can be also controlled			
		remotely. Suitable defaults and valid ranges			
		of values are calculated and suggested			
		wherever possible througout the course of			
		the structure determination. In dual source			
		configurations the package supports			
		multiple wavelengths with an automated			
		switch and subsequent automated collection			
		of the complete data.			
		The entire peakers can be all the			
		The entire package can handle twinned or			
		intergrown samples with up to eight			
		individual domains simultaneously.			
		Page 20 of 37			

Page 20 of 37

Supplier : Address :	A	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (FRD
TIN:	Acero B	Building, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 202 Mode of Procurement: Public Bidding		
Gentlemen: Please	e furnish thi	s Office the following articles subject to the terms			adding
Place of Delive Date of Deliver		Metrology Building	Delivery Term	n: 120 calendar day	/S
Stock/ Propert No.	Unit	Description	Payment Term Quantity	Unit Cost	Amount
	010_413	Steel Ball for SCD STEEL BALL FOR SC-XRD	1		
		Steel Ball for instrument alignment - Mounted on magnetic pin - Diameter: 0.381mm micrometer			
	843-02900	APEX4 w. SHELXTL S/W, Win (site lic.suppl. W. D8 QUEST / D8 VENTURE)	1		
		APEX4 SOFTWARE SUITE INCLUDING SHELXTL (SUPPLIED WITH AN INSTRUMENT), WINDOWS			
		Workgroup license to use the APEX4 software suite on a user owned computers running Windows 10 IoT Ent CBB High End EPKEA (ESD) COA, English			
		The APEX4 software suite provided with the system consists of a comprehensive suite of reliable routines for the collection and integration of CMOS, CCD and IP frame data from single crystals, and for solving, refining, displaying and			
		publishing of structural results. Systems with DAVINCI.DESIGN (D8 QUEST, D8 VENTURE, D8 QUEST ECO) benefit from the unique 3D robotic path planning, where the path planning routine			
		continuously checks the validity of the experimental setup. Hardware recognition dentifies components like mirrors, Page 19 of 37			

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023-	00.0031 (EDD		
Address:	Acero B	Building, 891 E. Delos Santos Ave., Quezon City	Date :				
TIN:				Date: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen:	Gentiemen.						
Please f	ùrnish thi	s Office the following articles subject to the terms	and conditions	contained herein:			
		· · · · · · · · · · · · · · · · · · ·		omanied herein,			
Place of Delivery		Metrology Building	Delivery Term	: 120 calendar day	C		
Date of Delivery :			Payment Term		3		
Stock/ Property	Unit	Dogovintion	T				
No.		Description	Quantity	Unit Cost	Amount		
		Modulated structures are fully supported for					
		further processing in dedicated programs					
		such as JANA. Powder samples can be					
		evaluated in transmission mode as flat samples or in eapabilities.					
		samples or in emphilities.					
		/	And a second sec				
		Within the suite all input and output					
		parameters are stored in an integrated					
		PostgreSQL data base (online lab journal).					
		This ensures complete intermity of all and					
		This ensures complete integrity of all user-					
		selected and program-determined					
		experimenral values within the system.					
		Furthermore, information from the database					
		avoids the unintended measurement of					
		structures, which have been measured					
out of the same of		before. The data base organizes data					
		storage and backup, take care of individual					
		user configuration and provides a					
		comprehensive overview of projects on					
		the individual computer. In a multi-user,					
		multi-computer environment the					
		installation is expandable to provide a site					
		overview. The integration into an existing	The state of the s				
		LIMS is facilitated.					
		The IDEAL module is latest addition to the					
		suite. The module is exclusive to Bruker					
		and leads to more accurate models:	<	2			
		The current Independent Atom Model (IAM)					
		is insufficiently suited to handle the electron					
		density information included in high					
		resolution data (0.6 A and beyond).					
		Page 21 of 37					

Supplier:		MOLAVE TRADING INC.	P.O. No.:	GIAE-PO-2023	-09-0931 (EBD)		
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City					
TIN:				Mode of Procurement: Public Bidding			
Gentlemen:							
Please fi	urnish this	s Office the following articles subject to the terms	and conditions	contained herein:			
Place of Delivery Date of Delivery:		Metrology Building	Delivery Term Payment Term	: 120 calendar day	/S		
Stock/ Property	***************************************		Tayment Term	•			
No.	Unit	Description	Quantity	Unit Cost	Amount		
		IDEAL is an easy-to-use extension to the IAM to tackle this problem. IDEAL offers a new way to take electron density from bond electrons and the lone pairs into account and uses pre-calculated fragment-based information applying extremely fast fragment matching algorithms to make computing most efficient. - IDEAL adds and refines bond-oriented deformation density from the Generalized Invariom Database (GID) to the IAM - The GID contains transferable pseudoatom parameters of the Hansen-Coppens multipole model and associated local atomic coordinate systems from almost 3000 model compounds - IDEAL works for small-molecule and macromolecular diffraction data - IDEAL is fast as it relies on precomputed database parameters avoiding long-time quantum chemical computations - Compatible with CHECKCIF A fully automated pipeline (STRUCTURE NOW) is provided, which follows the natural flow of the structure determination process from the initial crystal quality assessment through data collection, data processing, structure solution and refinement, finalizing with a publication-ready report.					

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Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)			
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023					
TIN:	Mode of Procurement: Public Bide							
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:								
Place of Delivery Date of Delivery:		Metrology Building	Delivery Term Payment Term	: 120 calendar day	/S			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount			
		Outside of STRUCTURE NOW, the APEX4 suite offers all of the manual adjustments the expert requires for advanced crystallography. A dropdown menu bar with seven main categories provides guidance through the crystallographic experiment, from sample information to report generation: - Set-up of the Experiment - Sample Quality Evaluation - Data Collection - Data Reduction - Data Examination - Structure Solution and Refinement - Report and Publication The suite offers dedicated tools for archiving all data and experimental results on DVD or external, user-defined network shares to guarantee data security. - The Set-up category features: - User-friendly input of sample related information, such as sample identification code, sample color, chemical formula, and crystal parameters - User-selectable and user-configurable mounting positions of the sample for easy sample mounting and alignment - Data acquisition routines for single frames, single runs, multiple runs, and rotation images - Launch of the fully automated structure determination pipeline (STRUCTURE NOW)						

Page 23 of 37

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address : TIN :	Acero Bui	ilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen:	furnish this	Office the following articles subject to the terms			5	
Place of Delivery Date of Delivery		Metrology Building	Delivery Term Payment Term	ı: 120 calendar day ı:	/S	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		The Evaluation category features: - Visualization of frames with numerous options, e.g. zoom, contrast control, color schemes, movie mode - Various tools for frame analysis, including 2D- and 3D- reflection profiles, rocking curves, resolution circles, overlays of predicted peak positions - Mouse-driven numerical output of relevant parameters, such as pixel intensity, resolution (Theta and Angstrom), background and integrated intensities, integer and non-integer hkl-values - unit cell determination based on reflections from phi, omega or phi/chi scans using up to three fast and reliable automated indexing routine: Fast Fourier Transformation, Difference Vector algorithms and Least-Square Methods. Prior to least-squares cell refinement and Bravais lattice determination routines a consistency check is applied. - Discrimination of reflections used for indexing through various filters and manual selection. - User-friendly routines for unit cell comparison to determine rotation angles or twin laws - Extensive orientation-matrix manipulation tools for unit-cell transformation and comparison in crystallographic standard and non-standard settings				

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address : TIN :	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen:	urnish this	Office the following articles subject to the terms			ddiilg	
Place of Delivery Date of Delivery :		Metrology Building	Delivery Term Payment Term	: 120 calendar day	/S	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		- Extensive graphical display of the undistorted reciprocal space and indexing of twinned and modulated samples - User-controlled or automated 3D orientation to display the undistorted diffraction pattern with numerous tools for grouping and ungrouping reflections, e.g. to apply a maximum intensity threshold, visually index modulated structures (q-vector) and visually verify the Laue symmetry (e.g. for educational purposes) - Graphical feedback on crystal degradation or slippage for each scan - CellCheckCSD, to avoid the accidental data collection of an already published structure from a starting material, product or by-product while the crystal is on the diffractometer - Lattice parameters, space group and molecular formula of unknown structures are provided for a comparison with the given sample. The Collect category features: - Strategy planner for fast and efficient automated data collection based on previously determined data collection parameters - 3D visualization of the measurement strategy and reflection dependent redundancy				

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date:		er 4, 2023	
TIN:	· · · · · · · · · · · · · · · · · · ·		Mode of Procurement : Public Bidding			
Gentlemen:						
Please fi	urnish this	s Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery		Metrology Building	ID-IIT	120		
Date of Delivery:		Metrology Building	Payment Term	n: 120 calendar day	/S	
Stock/ Property			Tayment Term	1:		
No.	Unit	Description	Quantity Unit Cost		Amount	
		- Suggestion of the ideal data collection				
		time based on extrapolated intensity				
		information				
		- Suggestion of the most useful scan-width		п		
		and the best crystal-to-detector distance,				
		based on beam divergence, lattice				
		parameters, and mosaic spread				
		- Suggestion of the maximum useful		-		
		resolution (maximum diffraction angle)				
		- The user can specify parameters, such as				
		overall data collection time, data completeness and data redundancy				
		- During data collection a moving crystal				
		video stream or a series of crystal images				
		is recovered for further processin in a user			3.	
		friendly, intuitive routine which allows the				
		semi-automated determination of the face		-		
		indices and corresponding vector length				
		- Friedel pairs can be measured in the same				
		image, which avoids incorrect determination	-			
		of the anomalous signal in case of decaying				
		crystal (exploiting Kappa geometry) - Shuttered Mode: Automated re-takes are				
		triggered to maximize the instrument's dynamic				
		range by automatically reducing exposure times				
		and/or applying a built-in attenuator				
		- Shutterless Mode: Fast data collection of			*	
		inner shells to maximize the instrument's	-			
		dynamic range. The approach also allows				
		a quick structure solution in only a couple of				
		minutes				
		- On-the-fly data integration while data				
		collection is ongoing Page 26 of 37				

Page 26 of 37

	MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)
Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023		
		Mode of Proce	urement : Public Bi	idding
urnish thi	s Office the following articles subject to the terms	s and conditions	contained herein:	
	Metrology Building			yS
Unit	Description	Quantity	Unit Cost	Amount
	(optional) The Reduce Data category for data integration a scaling features: - Accurate determination of reflections intensifies and background preserving the information on reflections' three-dimensional			
	urnish thi	urnish this Office the following articles subject to the terms: Metrology Building Unit Description - Multiple data collections at various temperatures or temperature ramping - Scans from oriented samples, which allows retrieval of information on the Laue symmetry prior to a data collection (exploiting Kappa geometry) - Inspection of reflections in bisecting mode at user-selectable psi positions, e.g. for Renninger contribution (exploiting Kappa geometry) - E-mail messaging service, e.g. on the completion of the experiment - A routine to integrate data from powder samples: - Combination of multiple frames collected with varying incidence angle - Cylindrical Debye-Scherrer view to analyze complete powder pattern from multiple frames - Easy data integration to Intensity vs. 2-Theta scan - Capability to handle flat detector data with variable sample detector distance for optimum peak solution Easy data processing using DIFFRAC.SUITE (optional) The Reduce Data category for data integration a scaling features: - Accurate determination of reflections intensifies and background preserving the	Acero Building, 891 E. Delos Santos Ave., Quezon City Date: Mode of Procu urnish this Office the following articles subject to the terms and conditions : Metrology Building Delivery Term Payment Term Unit Description Quantity - Multiple data collections at various temperatures or temperature ramping - Scans from oriented samples, which allows retrieval of information on the Laue symmetry prior to a data collection (exploiting Kappa geometry) - Inspection of reflections in bisecting mode at user-selectable psi positions, e.g., for Renninger contribution (exploiting Kappa geometry) - E-mail messaging service, e.g. on the completion of the experiment - A routine to integrate data from powder samples: - Combination of multiple frames collected with varying incidence angle - Cylindrical Debye-Scherrer view to analyze complete powder pattern from multiple frames - Easy data integration to Intensity vs. 2- Theta scan - Capability to handle flat detector data with variable sample detector distance for optimum peak solution Easy data processing using DIFFRAC.SUITE (optional) The Reduce Data category for data integration and scaling features: - Accurate determination of reflections intensifies and background preserving the information on reflections' three-dimensional	Acero Building, 891 E. Delos Santos Ave., Quezon City Mode of Procurement: Public Bi umish this Office the following articles subject to the terms and conditions contained herein: Metrology Building Delivery Term: 120 calendar data Payment Term: Unit Description Quantity Unit Cost - Multiple data collections at various temperatures or temperature ramping - Seans from oriented samples, which allows retrieval of information on the Laue symmetry prior to a data collection (exploiting Kappa geometry) - Inspection of reflections in bisecting mode at user-selectable psi positions, e.g. for Renninger contribution (exploiting Kappa geometry) - E-mail messaging service, e.g. on the completion of the experiment - A routine to integrate data from powder samples: - Combination of multiple frames collected with varying incidence angle - Cylindrical Debye-Scherrer view to analyze complete powder pattern from multiple frames - Easy data integration to Intensity vs. 2-Theta scan - Capability to handle flat detector data with variable sample detector distance for optimum peak solution Easy data processing using DIFFRAC.SUITE (optional) The Reduce Data category for data integration and scaling features: - Accurate determination of reflections intensifies and background preserving the information on reflections' three-dimensional

Page 27 of 37

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address : TIN :	Mode of Procurement: Pt				September 4, 2023 Public Bidding	
Gentlemen: Please f	^P urnish this	s Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery Date of Delivery		Metrology Building	Delivery Term Payment Term	n: 120 calendar day	/S	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		sliced diffraction images. - Learned profile method is applied also for twinned, split, or modulated crystal data - Automated control and adjustment of the crystal orientation matrix - Automatic exclusion of obscurations, e.g. caused by beam stop shadows - Exclusion of user define areas (e.g. for the exclusion of ice-rings in proteins or gasket scatter from high-pressure cells) - Accurate handling of K(alpha) 1/K(alpha)2 splitting for all resolutions and wavelength - Incident and oblique beam correction for best data quality at short, most efficient detector distances - Final lattice parameters and orientation matrix refined using all reflections collected - Systematic error estimation based on modern Monte Carlo simulation methods - Data scaling and absorption correction based on the intensities of symmetry-related reflections measured at different angular settings (SADABS & TWINABS) - Numerical absorption correction using face indices determined from the video analysis of the crystal can be carried out. - The routine supports processing of modulated structure data resulting in data sets ready for further processing in JANA - Empirical absorption on samples of as many as eight domains. Overlapping reflections from multiple-domain samples are not rejected Page 28 of 37				

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023			
TIN:			Mode of Pro	curement : Public Bi	dding	
Gentlemen:	S ! ! 4 ! . ! .					
Please I	urnish this	s Office the following articles subject to the terms	and condition	is contained herein:		
Place of Delivery	•	Metrology Building	Delivery Ter	m: 120 calendar day	/S	
Date of Delivery	*		Payment Ter	-		
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
No.		but properly processed and kept in the data set The Examine Data category features: - XPREP for interactive space-group determination and statistics routine Routines to scale, sort, merge ad normalize datasets - Extensive statistics are provided for evaluation of the data quality Powder pattern simulation from single crystal data for comparison with the bulk powder samp - Generation of pseudoprecession images from data collection frames for the detection and verification of twinning, superstructures, modulated structures and diffuse scattering - Diffraction space viewer for the undistorted investigation of textured samples. Fibers and non-Bragg diffraction - Search and display of user defined reflections and its symmetry equivalents in data frames for detailed visual analysis The Find Structure category features: - AUTOSTRUCTURE, for fully automated structure solution and completion. This routine works efficiently for samples from organic, metal-organic and inorganic chemistry			Amount	
		as it uses several powerful routines: - Intrinsic Phasing (XT) for initial structure solution, element assignment and space group determination	4			

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Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-202.	3-09-0931 (EBD)
Address:	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date:		er 4, 2023
TIN:			Mode of Proc	urement : Public B	
Gentlemen:					
Please fo	urnish this	s Office the following articles subject to the terms	s and conditions	s contained herein:	
Place of Delivery		Metrology Building	Delivery Tern	n: 120 calendar da	ys
Date of Delivery:			Payment Tern	n :	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		- Various tests are applied to identify and correct imperfections in the initial structure model: - Hirshfeld rigid body test, where 1,2 and 1, 3 distances are checked to determine if atoms constituting a bond have sufficiently equal vibrational amplitudes in the direction of the bo - Valence-Bond method, taking into account the the valence of an atom as a function of the bond length - Integration of the electron density around an atom after anisotropic refinement - Final results are checked for consistency against a subset of the Crystallography Open Database (COD) - Interactive structure solution using the Intrinsic Phasing (OT) routine by default: - Powerful, robust and easy to use engine for structure solution and space group determination based on Laue group information - High success rate even on weak and incomplete data Adonafed element assignment. - Automated transfer of the initial structure model for further model building and refinement (based on SHELXLE) - The structure refinement on data from regular and multiply twinned samples based on F^2 (XII) - Graphical Interface with direct interaction to the Interactive Editor - Mono or stereo visualization of the three-dimensional structure	at I and initial t	Arnehupe refines	vent j

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address:	Acero Building, 891 E. Delos Santos Ave., Quezon City Date:					
TIN:		•	Mode of Procurement: Public Bidding			
Gentlemen:						
Please	turnish this	Office the following articles subject to the terms	and conditions	contained herein:		
Place of Delivery		Metrology Building	Delivery Term	n: 120 calendar day	/S	
Date of Delivery		_	Payment Term			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		- Interactive display of mesh-style isosurfaces based on Fo and Fo-Fc calculations - Interactive display of maxima in the electron density map, highlighting same height peaks - Addition of Hydrogen atoms at idealized positions using Fo-Fc map for optimization - Mouse over help on XL commands and command auto-completion - Interactive, graphical refinement history function with return to previous refinement steps - Mouse- or editor driven atom labelling and renaming mode - Automated transformation of atom coordinates to the asymmetric unit - Interactive refinement of the structure model via function key - Interactive Editor window providing full functionality of the structure refinement program (XL) - Highlighting in editor mouse-selected atoms from the Graphical User Interface - Easy setting of restraints and constraints for simplified treatment of disordered groups or side chains - Convenient residue naming scheme; rigid-grouconstrains; distance, anti-bumping, planarity and chiral-volume restraints; restraints on H-atom positions and isotropic and anisotropic displacement parameters (including solvent/ water)	ıp			

Page 31 of 37

Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-2023	-09-0931 (EBD)	
Address:	Acero E	Building, 891 E. Delos Santos Ave., Quezon City	Date:	September 4, 2023 Procurement : Public Bidding		
TIN:			Mode of Prod			
Gentlemen: Please fi	urnish thi	s Office the following articles subject to the terms	and condition	s contained herein:		
Place of Delivery	:	Metrology Building	Delivery Ten	n: 120 calendar day	US	
Date of Delivery :			Payment Terr		ys	
Stock/ Property	Unit	Dogovintion	1			
No.	Ont	Description	Quantity	Unit Cost	Amount	
		- Flack's x and Parson's Q parameters are refined to determine the absolute configuration - Graphical routine to display the current structure model in various models, such as wire, ball-and-stick, pipes, thermal ellipsoids (banded or sliced) - Structure models can be rotated interactively in three directions and stored in user selectable OpenGL resolution modes or as a POV-Ray input file - Interface to third party software such as Olex2 Although XT typically outperforms established structure solution methods requiring space group information, multiple Direct-, Patterson-, or Dual-Space routines and search methods with known fragments, such as automatic superposition, Patterson interpretation and Patterson routines (XM, XS, XPS) are provided within the package. The Report category features: - PLATON's CIFCHECK-routine to ensure crystal structure consistency and integrity through tiered alerts on potential pitfalls and shortcomings - Automated generation of fully publication ready CIF-file - Easily sharable HTML report providing a complete, easy-to-read overview of the results obtained including a Jmol-applet				

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TIN : Gentlemen:	· · · · · · · · · · · · · · · · · · ·		Mode of Procurement: Public Bidding			
	arnish this	s Office the following articles subject to the terms				
		o mee the following afficies subject to the terms	and conditions	s contained herein:		
Place of Delivery		Metrology Building	Delivery Term	n: 120 calendar day	/C	
Date of Delivery:			Payment Term	i: 120 calchdal day	y 5	
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount	
		- The report delivers a detailed analysis of the structure with respect to configuration including bonding geometry, torsion angles and packing in the crystal: - HTML format - Experimental details, such as project name, structural formula, crystal size, data collection and processing details, reliability criteria for intensity data and crystal structure - Interactive graphics (JMOL) - Tables with structural information - Bond lengths and distances Up to six times per year expert-tested updates of the software package are released with latest features. Manuals - Comprehensive package of operation manuals (software and hardware, on CD-ROM) Updates are free-of charge and registered users can download the package and all related documentation from www.brukersupport.com cat. No, 843-027000				

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Please	furnish this	Office the following articles subject to the terms	and condition	s contained herein:		
Place of Delivery		Metrology Building	Delivery Terr	n: 120 calendar da	lys	
Date of Delivery			Payment Teri			
Stock/ Property	Unit	Description	Ougatita	¥1 · 1 C	1	
No.		Description	Quantity	- Unit Cost	Amount	
	125-0128W	*Magnet Base to mount on XYZ-Goniom. head (9.3 mm, 9000 Gauss)	2			
		MAGNETIC BASE FOR STANDARD PINS				
-		The magnetic base fits to goniometer head 87-000-088 and standard pins K430/C39 or K430C40. The strength of the magnet is 9000 Gauss.			,	
		cat. No. 123-012800				
	K43094	Crystalpin ALS HT HR8-204, 0.1 - 0.2 MM (30 PACK)	1			
		CRYSTALPIN ALS IIT HR8-204, 0.1 - 0.2 MM (30 PACK)				
		The mount is designed for cryo-crystallography systems that accept ALS style sample mounts. It fits to a magnetic goniometer head base, such as provided by the AUTOMATED GONIOMETERHEAD (AGH). The conical shape is compatible with SCOUT gripper, ALS style grippers, auto mounters and sample handlers. The mount features a two dimensional (2D)				
		alphanumeric 16 x 16 data matrix code on the underside. The mount is also color coded yellow, loop size 0.1 - 0.2 mm.				

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Address : TIN :	Acero B	uilding, 891 E. Delos Santos Ave., Quezon City	Date: September 4, 2023 Mode of Procurement: Public Bidding			
Gentlemen: Please	furnish this	Office the following articles subject to the terms				
Place of Delivery Date of Delivery		Metrology Building		: 120 calendar day	S	
Stock/ Property No.		Description	Payment Term : Quantity Unit Cost Amou			
	* 420CK	Crystalpin ALS HT HR8-208, 0.3 - 0.4 MM (30 PACK) CRYSTALPIN ALS HT HR8-208, 0.3 - 0.4 MM (30 PACK) The mount is designed for cryo-crystallography systems that accept ALS style sample mounts. It fits to a magnetic goniometer head base, such as provided by the AUTOMATED GONIOMETERHEAD (AGH). The conical shape is compatible with the SCOUT gripper, ALS style grippers, auto mounters and sample handlers. The mount features a two dimensional (2D) alphanumeric 16 x 16 data matric code on the underside. The mount is also				
	K4roczn	*Oil for Crystal mounting - NVH CRYOPROTECTANT OIL Viscous cryoprotectant oil for crystallography. The oil can be used to coat moderately airunstable, small molecule samples under an inert atmosphere before transferring the sample into a gas stream of the low temperature device.				
	900	Application Training for two end-users at Bruker Singapore	1			

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Supplier:		MOLAVE TRADING INC.	P.O. No. :	GIAE-PO-202	3-09-0931 (EBD)		
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Place of Delivery Date of Delivery :				Delivery Term: 120 calendar days Payment Term:			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount		
		Continuous Ink Printer (color & black) UPS with AVR function will be provided for the PC system	1				
		UPS, 10kVA	I				
		AVR, 10kVA	1				
		Installation and Training: Offer includes installation by certified field service engineer and on-site training by Bruker certified applications specialist. Offer also includes training for two (2) endusers at Bruker Singapore.					
		Warranty: One (1) year on parts and three (3) years on services (PMS) annually from the date of installation. South We shall be notified in writing immediately on occurrence of a defect, informing us of the kind and the probable cause of the defect. We shall not be liable for consequential, indirect or incidental damages including without limitation loss of profit, production or data, with the exception of product liability claims for personal					

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23-978 TF GIAE-PO-2023-09-0931 (EBD) P.O. No.: MOLAVE TRADING INC. Supplier: September 4, 2023 Acero Building, 891 E. Delos Santos Ave., Quezon City Date: Address: TIN: Mode of Procurement: Public Bidding Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein: Metrology Building Delivery Term: 120 calendar days Place of Delivery: Payment Term: Date of Delivery: Stock/ Property Unit Description Quantity **Unit Cost** Amount No. 19,998,000.00 19,998,000.00 injury or property damage to third persons. 19,998,000.00 Less: VAT 892,767.86 **EWT** 178,553.57 18,926,678.57 (Total Amount in Words) Eighteen Million Nine Hundred Twenty Six Thousand Six Hundred Seventy Eight and Fifty Seven Centavos Only Conforme: Very truly yours, Signature over Printed Name of Supplier

Lipt. 27, 2023

Date DR. ANNABELLE V. BRIONES Signature over Printed Name of Authorized Official Director Designation ORS/BURS No. : 1 202309237] Fund Cluster: VIP Project 4: De Novo Synthesis of Non-infective Zika Pseudovirus as Reference for Diagnostics and Vaccines Date of the ORS/BURS: Funds Available:

Amount: 19,998,000- 60

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PATRICIA ASILLEY M. MENDOZA

Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit