

BIL	Quotation Reference	Description	Advertisement Date	Closing Date (Not Later Than 2.00PM)	Quotation Fee	Requesting Department	Focal Person
4	DSS/HS/PROC/B50K/2022-2023/13(ENV)	<p><b>"TO SUPPLY, DELIVER, INSTALL TESTING AND COMMISSION ONE (1) UNIT OF FORCED CONVECTION OVEN WITH COMPLETE ACCESSORIES FOR ENVIRONMENT SECTION, DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH"</b></p> <p>PLACE OF SUBMISSION:            QUOTATION BOX (GROUND FLOOR)            MINISTRY OF HEALTH COMMONWEALTH DRIVE            BANDAR SERI BEGAWAN, BB 3910            NEGARA BRUNEI DARUSSALAM</p>	27/12/2022	14/01/2023	\$5.00	JABATAN PERKHIDMATAN SAINTIFIK, KEMENTERIAN KESIHATAN.	ASWANDI YUDIN  ENVIRONMENT SECTION  TEL: 2382424 ext. 7791

## EQUIPMENT PURCHASE SPECIFICATION

<b>TITLE OF TENDER/QUOTATION</b>	TO SUPPLY, DELIVER, INSTALL, TESTING AND COMMISSION ONE (1) UNIT OF FORCED CONVECTION OVEN WITH COMPLETE ACCESSORIES FOR ENVIRONMENT SECTION, DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH.
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<b>TENDER REFERENCE NO.</b>	DSS/HS/PROC/B50K/2022-2023/13 (ENV)
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<b>NAME OF ITEM</b>	FORCED CONVECTION OVEN WITH COMPLETE ACCESSORIES
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NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	VENDOR'S OFFER			
		COMPLY (Please tick v) (Provide evidence for compliance(s))		ITEM DESCRIPTIONS AND SPECIFICATIONS	PRICE (\$)
		YES	NO		
1	<b>GENERAL</b>				
1.1	The forced convection oven must be able to perform heating and evaporation of samples which are required for the analysis of Total Solids, Total Suspended Solids and Total Dissolved Solids.				
1.2	One complete Forced Convection Oven with complete accessories				
2	<b>FORCED CONVECTION OVEN</b> Specifications:				
2.1	Oven internal volume of 160L ± 10L				
2.2	Oven suitable to be placed on laboratory workbench.				
2.3	Oven width = 80cm ± 10cm				

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2.4	Oven depth = 60cm ± 10cm				
2.5	Oven height = 120cm ± 10cm				
2.6	The oven must be supplied and equipped with 8 removable shelves.				
2.7	Maximum load weight of each shelves = 20kg or more				
2.8	Maximum overall loading weight of the oven = 200 – 210 kg				
2.9	Heat setting temperature is from +20 °C up to +250 °C from ambient temperature				
2.10	Setting temperature accuracy: <ul style="list-style-type: none"> <li>• 0.1°C for temperature up to 99.9 °C</li> <li>• 0.5 °C for temperature 100 °C onwards</li> </ul>				
2.11	Fully insulated stainless steel door with locks				
2.12	Oven door must have seals to prevent heat loss from its heating chamber				
2.13	Oven temperature sensor is made up of 2 Pt100 sensor DIN Class A in 4-wire-circuit taking over functions in case of error.				
2.14	Oven must be able to support timer function (adjustable from 1 minute up to 1 week)				
2.15	Adjustable air flap position				
2.16	Adjustable fan speed				
2.17	Integrated with exhaust port/vent				
2.18	Oven must be equipped with over temperature protection or limiter which automatically switch off heating elements once over temperature condition is achieved.				

2.19	Oven must have both visual and audio alarm to alert users in the event of errors and faults.				
2.20	Oven must be calibrated by ISO17025 accredited calibration laboratory and provided with calibration certificate with measurement uncertainty. Set point temperature for calibration shall be at 105°C and 180°C.				
3	<b><u>ACCESSORIES</u></b>				
3.1	<b>Crucible Tongs (2 pcs)</b>				
3.2	<b>Heat Resistant gloves (2 pairs)</b> Gloves must be able to protect users from heat up to 300 °C.				
3.3	<b>External Thermometer probe (1 pc)</b> Digital thermometer to be use for separate temperature monitoring of the oven internal temperature. Thermometer temperature range must be able to cover the entire range of oven temperature. Temperature probe must be precalibrated with calibration certificate in compliance to ISO17025:2017 with measurement uncertainty. Set point temperature for calibration shall be at 105°C and 180°C. <ul style="list-style-type: none"> <li>• Thermometer Temperature Range: up to 300 °C</li> <li>• Thermometer Resolution: 0.1 °C</li> <li>• Thermometer Accuracy: 0.5 °C or better</li> </ul>				
4.0	<b><u>POWER SUPPLY</u></b>				
4.1	All electrical and electronic components in the system must be able to utilise mains power supply of 220-240V AC, 50-60 Hz. Otherwise, vendor to include additional items or work required to ensure successful operation.				

5	<b><u>TRAINING</u></b>				
5.1	Training shall be included as follows:				
5.1.1	On-site training for ALL staff members expected to handle the machine. Please ensure that adequate time is allocated such that training will take place in small groups to minimize staff shortage in the laboratory.				
5.1.2	Certificate of competence is to be issued to all trainees after completion of training.				
6	<b><u>WARRANTY</u></b>				
6.1	A minimum of one (1) year warranty for manufacturer's defect on the hardware, software and all cost of repairs and/or replacements should be included				
6.2	After-sales services must be provided for the product after one (1) year				
7	<b><u>DELIVERY</u></b> Items offered <b>MUST</b> be delivered within _____ from date of approval. <b>(Vendor to indicate the delivery period.)</b>				
8	<b><u>PRICE VALIDITY</u></b> Price validity <b>MUST NOT BE LESS THAN 90 days or three (3) months.</b>				
					<b><u>TOTAL PRICE (\$)</u></b>

No.	GENERAL SPECIFICATIONS	VENDOR'S OFFER
A	Total Price: B\$	
B	Delivery Period:	
C	Model & Brand:	
D	Country of Origin:	(leave blank)
E	Where marketed:	
F	Year of Manufacture:	
G	Warranty:	
H	Power Requirement:	
I	Battery Back-up:	
J	International Safety Standard:	
K	Technical Support:	
L	Equipment Whole Life Support:	
M	Dimensions (WxHxD) cm:	
N	User Manuals:	

No.	GENERAL SPECIFICATIONS	VENDOR'S OFFER
O	Service Manuals:	
P	Spare-parts & Consumables Listing:	
Q	Technical Training On-Site:	
R	Site Requirements:	

\*To all participating companies, please fill in the table above along with your other documents during submission of tender.

Bahagian/Unit	<i>Environment Section</i>	
Bil. Rujukan Bahagian/Unit:	DSS / ENV / PR / 2022 / 021	
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