

Centre for Advanced Research in Sciences University of Dhaka Dhaka-1000

Office of the Director

Tender Ref. No. CARS/ST/P-354/OTM/2024

Date: 05-05 -2024

Invitation for Tender (National)

Sealed Tenders are hereby invited from reputed Supply, Installation, Testing and Commissioning of Equipment for different laboratory at CARS, University of Dhaka.

1inistry/Division	Mi	nistry of Education					
gency		versity of Dhaka					
rocuring Entity Name		Centre for Advanced Research in Sciences (CARS), University of Dhaka.					
rocuring Entity Code	354						
rocuring Entity District	Dha	aka					
nvitation for	Sup	ply, Installation, Testing and Cor	nmissi	oning of E	quipment for different laboratory		
vitation TenderRef No.	CAI	RS/ST/P-354/OTM/2024					
Date :	05-	05-2024					
NFORMATION							
Procurement Method	Ор	en Tendering Method					
ING INFORMATION							
Budget and Source of Funds	Re۱	venue Budget (RB)					
Development Partner (if applicable)	N/A	A					
ICULAR INFORMATION							
Project/Programme Code (if applicable)	No	t used					
Project/Programme Name (if applicable)	Not Applicable						
Tender Package No.	Single						
Tender Package Name	Sup	ply, Installation, Testing and Cor	nmissi	oning of E	quipment for different laboratory		
Tender Publication Date	05-	05-2024					
Tender Last Selling Date	27	-05-2024 Up to office hours					
Tender Closing Date and Time		Date :			Time:		
_		28-05-2024			10:30 am		
Tender Opening Date and Time		28-05-2024			11:00 am		
Name & Address of the Office(s)		Address(s)					
-Selling Tender Document (Princip	al)	al) (i) Centre for Advanced Research in Sciences (CARS), University of Dhaka					
-Receiving Tender Document		(i) Centre for Advanced Research in Sciences (CARS), University of Dhal					
-Opening Tender Document		Centre for Advanced Resear	ch in :	Sciences (
Place/Date/Time of Pre-Tender		Name/Address	Da	te:	Time		
Meeting							
RMATION FOR TENDERER		(i) Up to date Trade License					
22. Eligibility of Tenderer (ii) Up to date VAT Registration (iii) Up to date Income Tax Clea (iv) Experience Certificate in sin tender in last five years as r (v) Bank solvency Certificate (vi) Manufacturer Authorizatio (vii) Applicant must be owner			Cleara simila s mer e tion le er of	nce Certif ar works o ntioned in etter for a the firm o	of comparable value in a single TDS Ipplicable Equipment. or Representative of the firm		
				will be authorized by the own	(vii) Applicant must be owner of the firm o will be authorized by the owner of the seal of the owner.		



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		viii) Country of origin and made in country will be same. If differ then						
			explain clearly with black and white.					
			(ix) Catalogue of the Equipment.					
			ty: One (1) years, Installat	ion and traini	ng must be provided			
			upplier (free of cost).					
23.	Brief Description of Goods		allation, Testing and Commiss	ioning of Equip	oment for different			
-		laboratory						
24.	Brief Description of Related Services		allation, Testing and Commiss	ioning of Equip	oment for different			
		laboratory	of Tender Schedule as	montioned	a to be deposited in			
					-			
25.	Tandar Desumant Drice TK 4 000 00		of Dhaka, A/C No. 360					
25.	Tender Document Price TK. 4,000.00		versity. Tender schedule					
			n submission of the depos	•				
			all working days except o	on the date n	xed for submitting the			
26		tender.	- 1 0 1					
26.	Identification/Name of Goods	Location	Tender Securit	-	Completion Time			
			Amount in Tak	ka 🛛				
	F . 1	CARS,			90 days from the			
	Equipment	DU.	Equipment	55,000/-	date of issuance a			
					Purchase order			
					(Supply of Goods)			
PRO	CURING ENTITY DETAILS	r						
27.	Name of Official Inviting Tender	Professor D	or. Ishtiaque M. Syed					
28.	Designation of Official Inviting Tender	Director						
29.	Address of Official Inviting Tender	Centre for	Advanced Research in Scie	nces (CARS), I	University of Dhaka.			
30.	Contact details of Official Inviting	9661900/E	xt. 4616/ 4636					
50.	Tender							
	The procuring entity reserves the right to	accept or rej	ect any or all tenders withou	it assigning any	reason whatsoever. The			
31.	procuring authority also reserves the right							
	suppliers must abide by the decision of t							
	notice and terms and conditions etc. will for							
	and the name of the firm on the envelope clearly. Vat, Income Tax and other Taxes, if any, imposed by the Govt. will be							
	deducted from their bills as per Govt. rules.							

SD/-

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Director Centre for Advanced Research in Sciences (CARS) University of Dhaka



Centre for Advanced Research in Sciences University of Dhaka Dhaka-1000

Office of the Director

Section 6. Schedule of Requirements

This Section provides the List of Goods and Delivery Schedule and List of Related Services and Completion Schedule and must be carefully prepared by a Procuring Entity for each object of procurement.

Invitation for Tender No :

Date :

Tender Package No :

A. List of Goods & Related services and Delivery Schedule

Item No.	Description of Item	Unit of Measurement	Quantit y	Point of Deliver y	Delivery Period Required
1	2	3	4	5	6

Equipment

SI.	Product Specification	Pack	Qnty.
No.		size	
	Scientific Refrigerator		
1	Features :		
	Temperature Range: (2~8) °C	No's	1
	* Adjustable Shelves: The shelves are adjustable		
	to any height and satisfy different requirements.		
	* Air Cooling, Auto defrost: Better cabinet		
	temperature uniformity, Auto defrost		
	USB Interface: Data of temperature history can		
	be downloaded via the built-in USB port and		
	optional printer design		
	* High-accuracy Temperature Control: Accurate		
	Temperature, Safe Storage High accurate		
	controller and high sensitivity sensor, keep		
	the temperature within 2~8°C.		
	* Intelligent Alarm: Human Technology, Safe		
	Service. Three alarm types keep storage safe.		
	* Lockable Design: Door With Lock, Safety Control.		
	Door with lock or accommodate a padlock,		
	safeguard the storage.		
	* Condensation Free Design: Door without		
	condensation under ambient temp. 32°C and		
	80% humidity. Electrical heating glass door,		



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condensation Tree under humidity /5%. Technical Data: * Type: Scientific Refrigerator * Cabine Type: Upright Climate Class: N * Cooling Type: Forced air cooling * Defrost Mode: Auto * Refrigerant: CFC-Free * Noise Lever (08): maximum 41 * Temperature Range(7): 2*8 * Controller: Microprocessor * Display: LED * Power Supply(V/Hz): 2:0-240/50 * Power (W): 380 * Electrical Current(A): 2:4 * Capacity(L/Cu. F1; minimum 410.1 * Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * Netro Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High//Low Temperature: * Remote Alarm * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Costing row is made of high-quality cold-rolled steal plate, and the surface is treated by electrostatic spraying process. Supplet row is made of high-quality out-rolled steal plate, and the surface is treated by electrostatic spraying process. * Caster					٦
* Type: Scientific Refrigerator * Cabinet Type: Upright * Climate Class: N * Conting Type: Forced air cooling * Cooling Type: Forced air cooling * Conting Type: Forced air cooling * Defrost Mode: Auto * Refrigerant: CFC-Free * Noise Lever (dB): maximum 41 * Temperature Range(*C): 2-3 * Controller: Microprocessor * Display: ED * Power Supply(VHz): 220-240/50 * Downer(W); 330 * Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410.1 * Interior Dimensions(W*D*H) mm: Approximately 565*710*1965 * Functional * Letter Dimensions(W*D*H) mm: approximately 565*710*1965 * Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410.1 * Interior Dimensions(W*D*H) mm: approximately 565*710*1965 * Functions * Nor S*D*S0*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 * Exterior Dimensions(W*D*H) mm: approximately 565*710*1965 * Functions * Letter Alarm * Power Failure * Sensor Error * Cost Battery * Cost Battery * Door Ajar * Cost Battery * Cost Battery * Test Hole * Shelves/Inner Doors.6 * USB Battery * Support: Out Ajar * Cost Trom the date of Installation Sales S		condensation free under humidity 75%.			
 * Cabinet Type: Upright * Cloning Type: Forced air cooling * Defrost Mode: Auto * Refrigramt: CFC-Free * Noise Lever (BB): maximum 41 * Temperature Range(70): 2-8 * Controller: Microprocessor * Display: LED * Power Supply(VH1): 220-240/50 * Remote Obsensions (W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 540*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*50*1380 * Supplier most poors:5 * UsB interface Certification: CC certificate . Warranty: One year from the date of installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run		Technical Data:			
 * Cabinet Type: Upright * Cloning Type: Forced air cooling * Defrost Mode: Auto * Refrigramt: CFC-Free * Noise Lever (BB): maximum 41 * Temperature Range(70): 2-8 * Controller: Microprocessor * Display: LED * Power Supply(VH1): 220-240/50 * Remote Obsensions (W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 540*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*50*1380 * Supplier most poors:5 * UsB interface Certification: CC certificate . Warranty: One year from the date of installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run					
 Climate Class: N Cooling Type: Forced air cooling Petrost Mode: Auto Refrigerant: CFC-Free Noise Lever (d8): maximum 41 Temperature Range("C): 2*3 Controller: Microprocessor Display: LED Power Supply(V/H2): 220-240/50 Power (W): 380 Electrical Current(A): 2.4 Copacity(U/Lo: F): minimum 410 L Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions Functions Highly: Low Temperature Remote Alarm Power Failure Sensor Firor Low Battery Door Ajar Accessories Caster Foot Test Hole Shelves/Inter Doors:6 USB Interface Caster of the submit of the date of Installation Sales Support: 104 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. Inclustor I. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. No's 1 		* Type: Scientific Refrigerator			
 Climate Class: N Cooling Type: Forced air cooling Petrost Mode: Auto Refrigerant: CFC-Free Noise Lever (d8): maximum 41 Temperature Range("C): 2*3 Controller: Microprocessor Display: LED Power Supply(V/H2): 220-240/50 Power (W): 380 Electrical Current(A): 2.4 Copacity(U/Lo: F): minimum 410 L Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions Functions Highly: Low Temperature Remote Alarm Power Failure Sensor Firor Low Battery Door Ajar Accessories Caster Foot Test Hole Shelves/Inter Doors:6 USB Interface Caster of the submit of the date of Installation Sales Support: 104 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. Inclustor I. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. No's 1 		* Cabinet Type: Upright			
Cooling Type: Forced air cooling Defrost Mode: Auto Pefrost Mode: Auto Perover Supply(V14): 220-240/50 Power(V1): 380 Controller: Microprocessor Display: LED Power Supply(V14): 220-240/50 Power(V1): 380 Electrical Current(A): 2.4 Capacity(L/Cu. Ft): minimum 410 L Interior Dimensions(W*D*H) mm: Approximately 330*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Coster * Coster * Caster * Coster * Coster * Caster * Coster * Coster Toro * Use Binterface Certification: Et certificate . Warranty: One year from the date of Installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bilder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 Inclubator 2 Inclubator 2 Intense in arc transitions. The surface is treated by electrostatic spraying process. No's 1					
* Defrost Mode: Auto * Refrigerant: CFC-Free * Noise Lever (d8): maximum 41 * Temperature Range(*C): 2*8 * Controller: Microprocessor > Display: LED * Power Supply(V/H2): 220-240/50 * Capacity(L/Cu. F1): minimum 410 L * Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Usport :04 (Four) Years free after sales support after the warranty Period Installation & Sales Support :04 (Four) Years free after sales support after the laboratory site.					
* Refrigerant: CFC-Free * Noise Lever (dB): maximum 41 * Temperature Range(*C): 2*8 * Controller: Microprocessor * Display: LED * Power Supply(V/Hz): 220-240/50 * Power Supply(V/Hz): 220-240/50 * Power Supply(V/Hz): 220-240/50 * Power full * Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410 L * Interior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Sensor Froro * Ubb Mattery * Door Ajar Accessories * Castier * Foot * Text Hole * Stelves/Inner Doors:6 * USB Interface Certificaton: CE certificate. Warranty: One years free after sales support after the warranty Period Installation & traini					
 Noise Lever (dB): maximum 41 Temperature Range^(C): 2⁻⁸ Controller: Microprocessor Display: LED Power Supply(I/VH2): 220-240/50 Power(W); 380 Electrical Current(A): 2.4 Capacity(I/U. F): minimum 410.1 Interior Dimensions(W+D*H) mm: Approximately 530*590*1380 Exterior Dimensions(W+D*H) mm: approximately 665*710*1965 Functions High/Low Temperature Remote Alarm Power Failure Sensor Error Low Battery Door Ajar Accessories Caster Foot Test Hole Shelves/Inter Doors:6 USB Interface Certification: CE certificate. Warranty : One year free after sales support after the warranty Period Installation & training: Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Support: 04 (Four) years free after sales support after the laboratory site. Incubator A the shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. No's 1 The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 					
* Temperature Range(°C): 2~8 * Controller: Microprocessor * Display: LED * Power Supply(V/Hz): 220-240/50 * Power Supply(V/Hz): 220-240/50 * Power Supply(V/Hz): 220-240/50 * Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410 L * Interfor Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CC entificate . Warranty: One year from the date of Installation Sales Support: O4 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 Inclubator 1 Inclubat					
 Controller: Microprocessor Display: LED Power Supply(V/H2): 220-240/50 Power(W); 380 Electrical Current(A): 2.4 Capacity(L/Cu, Ft): minimum 410 L Interior Dimensions(W*D*H) mm: Approximately 365*710*1965 Functions Electrical Current(A): 2.4 Capacity(L/Cu, Ft): minimum 410 L Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions Electrical Current(A): 2.4 Capacity(L/Cu, Ft): minimum 410 L Interior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions Flight/Low Temperature Remote Alarm Power Failure Sensor Error Low Battery Door Ajar Accessories Caster Foot Test Hole Shelves/Inner Doors:6 USB Interface Certification: C2 certificate . Warranty: One year from the date of installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. InterMator 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 2. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 					
 Display: LED Power Supply(V/Hz): 220-240/50 Power Wip 330 Electrical Current(A): 2.4 Capacity(L/Cu. Ft): minimum 410 L Interior Dimensions(W*D*H) mm: Approximately 530*590*1380 Exterior Dimensions(W*D*H) mm: Approximately 530*590*1380 Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions High/Low Temperature Remote Alarm Power Failure Sensor Error Low Battery Door Ajar Accessories Caster Foot Test Hole Shelves/Inner Doors:6 USB Interface Certification: CE certificate . Warranty: One year from the date of Installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. Incubator Incubator The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. No's 1 The working room is made of high-quality mirror-finished stainless steel, and the four corrers are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 					
 * Power Supply(V/Hz): 220-240/50 * Power(W); 330 * Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410 L * Interior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Benote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty: One year from the date of installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Suppler must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 1 Incubator 2 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 1 Meworking room is made of high-quality mirror-finished stainless steel, and the four corrers are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 		* Controller: Microprocessor			
 * Power(W); 380 * Electrical Current(A): 2.4 * Capacity(L/Cu. F1; minimum 410 L * Interior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Remote Alarm * Power Failure * Sensor Error * Low Battery > Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty : One year from the date of Installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. Incubator 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 1. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 		* Display: LED			
* Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410 L * Interior Dimension(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty: One year from the date of Installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must salfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 Incubator 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 2 Incubator 2. The working room is made of high-quality mirror-finished stainless steel, and the four corrers are in arc transitions		* Power Supply(V/Hz): 220-240/50			
* Electrical Current(A): 2.4 * Capacity(L/Cu. Ft): minimum 410 L * Interior Dimension(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty: One year from the date of Installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must salfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 Incubator 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 2 Incubator 2. The working room is made of high-quality mirror-finished stainless steel, and the four corrers are in arc transitions		* Power(W): 380			
 * Capacity(L/Cu. Ft): minimum 410 L * Interior Dimensions(W*D*H) mm: Approximately 307590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty: One year from the date of Installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 2. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over- 					
* Interior Dimensions(W*D*H) mm: Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty : One year from the date of Installation Sales Support : 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. 2 1. The shell is made of high-quality mirror-finished stainless steel, and the four corrers are in arc transitions. The surface is treated by anti-corrosion proces. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent t					
Approximately 530*590*1380 * Exterior Dimensions(W*D*H) mm: approximately 665*710*1965 Functions * High/Low Temperature * Remote Alarm * Power Failure * Sensor Error * Low Battery * Door Ajar Accessories * Caster * Foot * Test Hole * Shelves/Inner Doors:6 * USB Interface Certification: CE certificate . Warranty: One year from the date of Installation Sales Support: 04 (Four) years free after sales support after the warranty Period Installation & training: Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab & ensure training to the scientists/officer at the laboratory site. 2 1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process. No's 1 2. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning. 3. The PID microcomputer intelligent temperature controlle					
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timing of temperature control, over-					
timing of temperature control, over-		3. The PID microcomputer intelligent temperature controller has functions such as presise			
temperature alarm, precise temperature control, and convenient reading.					
		temperature alarm, precise temperature control, and convenient reading.			
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University of Dhaka

Dhaka-1000

ঢাকা - ১০০০

	 4. The box door with new structure has good heat insulation effect. There is a double-layer tempered glass observation window with a large viewing angle in the middle, equipped with a lock-type elastic adjustment door lock, and a high-temperature resistant silicone sealing strip to ensure good tightness and prevent heat loss. 5. The heating power has two gears, which can meet the needs of users at high and low temperature. <u>SPECIFICATIONS:</u> Voltage(V): 220V/50HZ Temperature variation (°C): R+5-80°C Temperature fluctuation (°C): ±0.5°C 		
	Temperature resolution (°C): 0.1°C Accuracy of temperature distribution (°C): ±1.0°C		
	power(kw): minimum 0.25		
	Interior dimensions: (W×D×H) (mm): around 350×350×350		
	Exterior dimensions (W×D×H) (mm): around 500×550×735		
	Timing range: 1-9999min		
	Hot air Oven		
3	Features:	Neza	1
	* LCD liquid crystal temperature display, with temperature deviation calibration	No's	1
	function.		
	* The unique air duct design ensures the		
	uniformity and stability of the		
	temperature in the working room.		
	* Over temperature alarm and automatic		
	fault detection alarm function.		
	* Independent fan switch, decide whether to		
	open convection according to heating		
	needs.		
	* SUS 304 high quality chamber.		
	* Optional Foot Master casters are available		
	for more convenient movement.		
	Technical Parameters: Capacity: minimum 45L		
	Temp. Range: RT+10°C~300°C		
	Temp. Precision: 0.1°C		
	Temp. Uniformity: ≤Max Temp.±2.5%		
	Circulation Mode: Back heating, forced convection		
	Timing Range: 0~9999min/h		
	Shelves NO. (pc): minimum two(2)		
	Display: LCD		
	Power Supply: 220V±10% 50/60Hz or 110V±10%		
	Internal Size(mm): around 370*340*358		
	External Size(mm): around 596*635*510		
	Dehumidifier		
4	FEATURES: Ophumidifier Volume minimum 30 Letters.	No's	1
	• O.5W Standby.	INO S	1 I
	Water Full Indicator.		
	Self-Diagnosis and Healthy Filter.		
	External Drain Connector.		
	Real Time Display of Ambient Humidity.		
	Water Flow Protector and Filter Cleaner		
	Remainder.		



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ঢাকা - ১০০০

	Specifications:		
	Power Supply: 220v/50Hz		
	Dehumidifier Volume: minimum 30 Letter		
	Input Power Consumption: around 450W		
	Rated Current (A): around 1.7		
	Air Flow (M3/Hr): around 170 (CFM)		
	Water Tank Volume: minimum 4.8L		
	pH meter		
5	Main Features		
	1. minimum 5 inch LCD screen with wide 150° viewing angle, beautiful and compact	No's	1
	design.		
	2. Compact bench cradle with rotary electrode		
	holder to save space in laboratory.		
	3. Small size and portable make it easy to		
	carry and remove in laboratory and		
	outdoors.		
	4. Extendibility: different electrodes can be		
	installed to test pH, conductivity and		
	dissolved oxygen.		
	5. Auto recognition of different electrodes		
	after electrode is connected.		
	6. 3.5 mm jack input for electrodes makes it		
	very easy for electrode connection.		
	7. Two USB one SD card interfaces for power		
	and data transfer.		
	8. Can store 300 pieces of data including		
	readings, date and time.		
	9. Rechargeable and long lasting battery. Auto		
	shut off if there is no operation in ten		
	minutes.		
	Technical Parameters:		
	pH Measurement range: (-2.00 ~ 19.99)pH		
	Resolution: 0.1/0.01 pH		
	Accuracy: ±0.02 pH		
	Input current: ≤2×10-12 A		
	Input impedance: $\geq 1 \times 1012 \Omega$		
	Stability: ±0.01 pH/3h		
	Temp compensation: $\pm 0.01 \text{ pH/3h}$, (0 ~ 100)°C (auto or manual)		
	mV: Measurement range(mV/ORP/EH): -1999.9mV ~ 0 ~ 1999.9mV Resolution: 1mV		
	Accuracy: ±0.1% FS		
	Range: 0°C ~ 100°C Resolution: 0.1°C		
	Accuracy: 5~ 60°C:±0.4°C, Others: ±0.8°C		
	Calibration: 1, 2, 3 point		
	Data storage: minimum 300 sets		
	Power: DC 5V/1A		
	Communication interfaces: USB		
	Dimensions: around 190*130*10mm		
	Temperature: (5 ~ 35)°C		
	Humidity : ≤85%		
	IP grade: IP54		
	Vortex Machine		



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ঢাকা - ১০০০

	Variable speed of 0 to 3,000rpm for gentle shaking to rapid mixing of samples	No's	1
	Touch or continuous operation mode		
6	Includes a standard top head for mixing a single test tube or other small vessel		
	up to 30mm in diameter		
	Electronic speed control maintains constant speed even during changes in load		
	Steel base with specially designed vacuum suction feet provides stability and		
	dampens vibration		
	Robust aluminum-cast construction		
	Specifications:		
	Speed Range: 0-3000 rpm		
	Mixing motion: Orbital		
	Orbital diameter: minimum 4 mm		
	Motor type: Shaded pole motor		
	Run Type: Touch operation / Continuous		
	Permissible ambient temperature: 5 – 40°C		
	Noise Level: 80% RH		
	Single-channel Precision Pipette	No/-	1
7	* Volume range: $0.5 - 10\mu$ l	No's	1
7	* Accuracy (< \pm %):1.50		
0	* Precision (< %):1.50		
8	Single-channel Precision Pipette		
	* Volume range: $10 - 100\mu$ l	No's	1
	* Accuracy (< \pm %):1.00	INO S	1
0	* Precision (< %):0.40		
9	Single-channel Precision Pipette		
	* Volume range: $100 - 1000 \mu$ l	No's	1
	* Accuracy (< \pm %):0.70	No's	1
10	* Precision (< %):0.25		
10	Mini Centrifuge Machine 6500RPM Product's Feature:		
	* Mini Centrifuges are ideal for quick spin downs and	No's	1
	microfiltration	110.5	T
	* Each unit has an ON/OFF switch allowing the user to		
	stop the motion of the rotor before opening the		
	centrifuge lid.		
	Product's Specifications:		
	* RPM: minimum 6500rpm/2260xg		
	* Capacity: 0.5ml,1.5ml, 2.0ml Centrifuge Tube, 0.2 ml		
	PCR Tube and 0.2ml PCR Tube -8 Strips		
	* Noise: $\leq 50 \text{ db}$		
	* ON/Off Switch		
	* Durable Lid Hinge		
	* Power: 110-240V		
	Supplied with:		
	* Rotor-I: 1.5ml/2.0 ml Micro centrifuge Tube		
	* Rotor-II: 8x0.2ml PCR Tube-8 Strips or 32x0.2ml PCR Tube		
	* Adaptor: 8x0.5ml Micro Centrifuge Tube and 8x0.2ml		
	PCR Tube		
11	UV Ozone Cleaner	1	ļ
	Features:		
	High Intensity UV Lamp	No's	1
	Housing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By		-
	utilizing the emission at 185 nm and 254 nm, ozone is generated. The high intensity output gives		
	results quickly and facilitates a large cleaning area.		
		1	1

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Large Cleaning Are	a	
The tray must acco	ommodate wafers up to 153 mm in diameter and 12mm in thickness for a wide	
array of samples, i	ncluding:	
Microso	ope	
Diced s	ubstrates	
Petri di:	shes	
 AFM tip 	S	
Simple to Use Inte		
=	play and tactile keypad provide a simple interface.	
-	tware continuously monitors the temperature inside the system and gives readings	
-	np, and electronics. This makes it easy to make sure that delicate samples do not	
overheat.		
Designed with Saf	ety in Mind	
-	eres to BS EN 61010-1:2010 standards alongside EMC, Low Voltage, and RoHS CE	
-	afety features should integrate safety interlock which keeps the lamp off while the	
	a thermal cutoff should triggered if the temperature detected by any of the	
internal sensors is		
Technical Specific		
UV Intensity	15 mW⋅cm-2 at 185 nm	
UV Emission	185 nm and 254 nm LED	
Lamp Lifetime	>2000 hours	
Cleaning Area	minimum 153 mm diameter	
Safety Features	Temperature regulation, thermal cutoff, and drawer interlock	
UV Light Specifica	tions	
Lamp Specification		
Lamp Type: Low p	ressure mercury discharge lamp	
Lamp Dimensions:	~150 mm x 15 mm (length x diameter)	
Number of Lamps:		
	85 nm and 254 nm	
Lamp Lifetime	T80 lifetime 2000 hours	
Sample Irradiance	Specification	
Sample UV Intensi	ty: 15 mW·cm-2 at 185 nm	
Cleaning Area: 153	mm (6 inch) diameter	
Exposure Time: 1	econd to 60 minute; digitally controlled	
Dimensions and W	/eight	
Dimensions: ~210	mm x 310 mm x 228 mm (W x D x H)	
Tray Illumination A	rea: ~153 mm (6 inch) diameter circle	
Maximum Sample	Height:~12 mm	
Weight: ~5.45 kg		
Materials and Fini	sh Case	
Material:~1.5 mm	mild steel	
Finish: Textured b	ack powder coating	
Drawer Tray		
Material 1.5 mm	stainless steel	
Finish #4 brush	ed finish	
User Interface Dis	•	
Type: 24 bit colour		
Resolution:~480 x	272 рх	
Size : ~4.3"		
Interface		
Description Tactile	buttons	1



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	Safety Features		
	Equipment Safety Features		
	Drawer Interlock: Hardware interlock sensor		
	Temperature Regulation: Active lamp cooling - 53 CFM axial fan		
	Thermal Cutoff: Onboard temperature sensors for software cutoff		
	Power Supply Input		
	Voltage Range 110 V - 240 V		
	Fuse 1 A		
	Ceramic Muffle Furnace 1200°C		
	Description:		
12	Muffle furnace, with features of heating fast, light weight, large capacity, energy saving and safety, Using ceramic fiber inner chmaber, has good insulation effect and high temperature control precision, It is widely used in the pharmaceutical industry, analytical chemistry industry, coal quality	No's	1
	analysis, building materials industry, etc. Features:		
	1.Adopt vacuum forming technology, one-step molding inner chamber, prevent heating devices from polluted by volatile matter;		
	2. Using high quality wire coil as heater, special anti-corrosion treatment for the wire surface;		
	3. Upward door open design, the hot air will will go upside behind the door when it opening, this can		
	offer better protection for users ;		
	4.Over temperature alarm;		
	5. Double layer casing design, make the furnace has better insulation performance and the surface		
	temperature lower.		
	Technical Specifications:		
	Heating mode: three side heating wire Performance		
	Temp. Range: 300°C-1200°C		
	Temp. Resolution: 1°C Temp. Fluctuation: ±1°C		
	Heating up time: maximum 30min		
	Structure		
	Chamber material: Ceramic fiber		
	Heating device: nickel-chromium alloy wire		
	Shell material: spraying cold rolled steel		
	Controller		
	Temp. Control: use microcomputer PID control of heating		
	Program mode: 40 sections programmable control runs(optional)		
	Timer: 0~9999min		
	Sensor: K		
	Safety device: over-temperature alarm		
	Dimensions (W*D*Hmm)		
	Working size: around 200*300*120		
	Exterior size: around 480*500*490		
	Working capacity: minimum 7L		
	Power: AC220V		
	Optional device: observation window/vent; chimney; gate turn-off switch		
	Precision Balance (3 Digit)		
13	Technical Specifications:		
10	Metrological parameters	No's	2
	Maximum capacity [Max]: 750g		£
	Minimum load: 20mg Readability [d]: 0.001g		



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	Verification scale interval [e]: 0.01g Repeatability (Max): 0.0015g		
	Repeatability (5% Max): 0.0005g		
	Linearity: ±0.003g		
	Stabilization time: 2s		
	Adjustment: internal (automatic)		
	Physical parameters		
	OIML Class: II		
	Levelling system: manual		
	Display: LCD		
	Weighing pan dimensions: around 128×128mm		
	Protection class: IP 43		
	Electrical parameters		
	Power supply: 100 — 240 V AC 50 / 60 Hz		
	Communication interface: 2×RS232, USB-A, USB-B Environmental conditions		
	Operating temperature: +10 — +40°C		
	Documentation should be included with the system:		
	IQ & OQ Documents		
	Calibration certificate		
	Calibration Tag		
	Magnetic Hot plate Stirrer Digital with Sensor and Stand		
	Features:		
14		No's	2
	Max. heating temperature is 380°C		
	High resolution LCD displays actual temperature and speed		
	Brushless DC motor is maintenance free		
	Aluminum cover with ceramic work plate, allows for immediate heat transfer		
	External temperature control is possible with temperature sensor PT1000		
	Digital temperature control with max. temperature at 380°C		
	Digital speed control with max. speed up to 1500rpm		
	Max. stirring quantity of H2O at 5L		
	Technical Specifications:		
	Dimension of work plate [W x D]: minimum 140x140mm		
	Work plate material: Aluminum cover with ceramic coating		
	Motor type: Brushless DC motor		
	Motor rating input: ~ 2.4W		
	Motor rating output: ~ 1.8W		
	Power: minimum 510W		
	Heating output: minimum 500W		
	Voltage: 100-120/200-240V 50/60Hz		
	Stirring positions: 1		
	Max. stirring quantity, [H2O]: 5L		
	Max. magnetic bar[length]: 50mm		
	Speed range: 200-1500rpm		
	Speed display: LCD		
	Temperature display: LCD		
	Heating temperature range: Room Temp. 380°C, increment 5°C		
	Control accuracy of work sensor: ±20rpm		
	Over temperature protection: 420°C		
	Temperature display accuracy: ±1°C		
	External temperature sensor: PT1000 (accuracy ±0.5)		
	Protection class: IP21		
	Protection class: IP21		



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Permissible ambient temperature and humidity: 5-40°C, 80%

Warranty: 12 Months from the date of installation for the all equipment. Country of Origin: USA/UK/EU/Japan/Australia/Canada/Singapore/Equivalent.

Section 7. Technical Specifications.

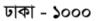
The Goods and Related Services shall comply with following Technical Specifications:

ltem No	Name of Item or Related Service	Technical Specification and Standards
»	CARS	Supplier

Equipment

SI.	Product Specification
No.	
	Scientific Refrigerator
	Features :
1	Temperature Range: (2~8) °C
	* Adjustable Shelves: The shelves are adjustable
	to any height and satisfy different requirements.
	* Air Cooling, Auto defrost: Better cabinet
	temperature uniformity, Auto defrost
	USB Interface: Data of temperature history can
	be downloaded via the built-in USB port and
	optional printer design
	* High-accuracy Temperature Control: Accurate
	Temperature, Safe Storage High accurate
	controller and high sensitivity sensor, keep
	the temperature within 2~8°C.
	* Intelligent Alarm: Human Technology, Safe
	Service. Three alarm types keep storage safe.
	* Lockable Design: Door With Lock, Safety Control.
	Door with lock or accommodate a padlock,
	safeguard the storage. * Condensation Free Design: Door without
	condensation under ambient temp. 32°C and
	80% humidity. Electrical heating glass door,
1	condensation free under humidity 75%.
1	Technical Data:
	recinical Data.

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-		
		* Type: Scientific Refrigerator
		* Cabinet Type: Upright
		* Climate Class: N
		* Cooling Type: Forced air cooling
		* Defrost Mode: Auto
		* Refrigerant: CFC-Free
		* Noise Lever (dB): maximum 41
		* Temperature Range(°C): 2~8
		* Controller: Microprocessor
		* Display: LED
		* Power Supply(V/Hz): 220-240/50
		* Power(W); 380
		* Electrical Current(A): 2.4
		* Capacity(L/Cu. Ft): minimum 410 L
		* Interior Dimensions(W*D*H) mm:
		Approximately 530*590*1380
		* Exterior Dimensions(W*D*H) mm: approximately 665*710*1965
		Functions
		* High/Low Temperature
		* Remote Alarm
		* Power Failure
		* Sensor Error
		* Low Battery
		* Door Ajar
		Accessories
		* Caster
		* Foot
		* Test Hole
		* Shelves/Inner Doors:6
		* USB Interface
		Certification: CE certificate .
		Warranty : One year from the date of Installation
		Sales Support : 04 (Four) years free after sales support after the warranty Period
		Installation & training:
		Supplier must provide all necessary accessories to run the instrument/device functional at free of cost. The
		bidder must satisfactorily complete installation & commissioning of the equipment/device at client Lab &
L		ensure training to the scientists/officer at the laboratory site.
		Incubator
	2	1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying
		process.
		2. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc
		transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The
		quick detachable structure of the bottom heating cover is convenient for cleaning.
		3. The PID microcomputer intelligent temperature controller has functions such as precise timing of
		temperature control, over-
		temperature alarm, precise temperature control, and convenient reading.
		4. The box door with new structure has good heat insulation effect. There is a double-layer tempered glass
		observation window with a large viewing angle in the middle, equipped
		with a lock-type elastic adjustment door lock, and a high-temperature resistant silicone sealing strip to ensure
		good tightness and prevent heat loss.
		5. The heating power has two gears, which can meet the needs of users at high and low temperature.
		SPECIFICATIONS:
		Voltage(V): 220V/50HZ
L		Temperature variation (°C): R+5-80°C



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	Temperature fluctuation (°C): ±0.5°C
	Temperature resolution (°C): 0.1°C
	Accuracy of temperature distribution (°C): ±1.0°C
	power(kw): minimum 0.25
	Interior dimensions: (W×D×H) (mm): around 350×350×350
	Exterior dimensions (W×D×H) (mm): around 500×550×735
	Timing range: 1-9999min
	Hot air Oven
r	Features: * LCD liquid crystal temperature display, with
3	
	temperature deviation
	function.
	* The unique air duct design ensures the
	uniformity and stability of the
	temperature in the working room.
	* Over temperature alarm and automatic
	fault detection alarm function.
	* Independent fan switch, decide whether to
	open convection according to heating
	needs.
	* SUS 304 high quality chamber.
	* Optional Foot Master casters are available
	for more convenient movement.
	Technical Parameters:
	Capacity: minimum 45L
	Temp. Range: RT+10°C~300°C
	Temp. Precision: 0.1°C
	Temp. Uniformity: ≤Max Temp.±2.5%
	Circulation Mode: Back heating, forced convection
	Timing Range: 0~9999min/h
	Shelves NO. (pc): minimum two(2)
	Display: LCD
	Power Supply: 220V±10% 50/60Hz or 110V±10%
	Internal Size(mm): around 370*340*358
	External Size(mm): around 596*635*510
	Dehumidifier
	FEATURES:
	• Dehumidifier Volume minimum 30 Letters.
4	• 0.5W Standby.
	Water Full Indicator.
	• Self-Diagnosis and Healthy Filter.
	External Drain Connector.
	Real Time Display of Ambient Humidity.
	Water Flow Protector and Filter Cleaner
	Remainder.
	Specifications:
	Power Supply: 220v/50Hz
	Dehumidifier Volume: minimum 30 Letter
	Input Power Consumption: around 450W
	Rated Current (A): around 1.7
	Air Flow (M3/Hr): around 170 (CFM)
	Water Tank Volume: minimum 4.8L
	pH meter
5	Main Features



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	1. minimum 5 inch LCD screen with wide 150° viewing angle, beautiful and compact design.
	2. Compact bench cradle with rotary electrode
	holder to save space in laboratory.
	3. Small size and portable make it easy to
	carry and remove in laboratory and
	outdoors.
	4. Extendibility: different electrodes can be
	installed to test pH, conductivity and
	dissolved oxygen.
	5. Auto recognition of different electrodes
	after electrode is connected.
	6. 3.5 mm jack input for electrodes makes it
	very easy for electrode connection.
	7. Two USB one SD card interfaces for power and data transfer.
	8. Can store 300 pieces of data including
	readings, date and time.
	9. Rechargeable and long lasting battery. Auto
	shut off if there is no operation in ten
	minutes.
	Technical Parameters:
	pH Measurement range: (-2.00 ~ 19.99)pH
	Resolution: 0.1/0.01 pH
	Accuracy: ±0.02 pH
	Input current: ≤2×10-12 A
	Input impedance: $\geq 1 \times 1012 \Omega$
	Stability: ±0.01 pH/3h
	Temp compensation: ±0.01 pH/3h, (0 ~ 100)°C (auto or manual)
	mV: Measurement range(mV/ORP/EH): -1999.9mV ~ 0 ~ 1999.9mV
	Resolution: 1mV
	Accuracy: ±0.1% FS
	Range: 0°C ~ 100°C
	Resolution: 0.1°C
	Accuracy: 5~ 60°C:±0.4°C, Others: ±0.8°C
	Calibration: 1, 2, 3 point
	Data storage: minimum 300 sets
	Power: DC 5V/1A
	Communication interfaces: USB
	Dimensions: around 190*130*10mm
	Temperature: (5 ~ 35)°C
	Humidity : ≤85%
	IP grade: IP54
	Vortex Machine
	Features:
6	Variable speed of 0 to 3,000rpm for gentle shaking to rapid mixing of samples
	Touch or continuous operation mode
	Includes a standard top head for mixing a single test tube or other small vessel
	up to 30mm in diameter
	Electronic speed control maintains constant speed even during changes in load
	Steel base with specially designed vacuum suction feet provides stability and
	dampens vibration
	Robust aluminum-cast construction
	Specifications:
	Speed Range: 0-3000 rpm



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	Mixing motion: Orbital
l.	Orbital diameter: minimum 4 mm
1	Motor type: Shaded pole motor
1	Run Type: Touch operation / Continuous
1	Permissible ambient temperature: 5 – 40°C
1	Noise Level: 80% RH
	Single-channel Precision Pipette
1	* Volume range: 0.5 – 10μl
7	* Accuracy (< ± %):1.50
1	* Precision (< %):1.50
8	Single-channel Precision Pipette
1	* Volume range: 10 – 100μl
1	* Accuracy (< ± %):1.00
1	* Precision (< %):0.40
9	Single-channel Precision Pipette
1	* Volume range: 100 – 1000μl
1	* Accuracy (< ± %):0.70
1	* Precision (< %):0.25
10	Mini Centrifuge Machine 6500RPM
1	Product's Feature:
1	* Mini Centrifuges are ideal for quick spin downs and
1	microfiltration
1	* Each unit has an ON/OFF switch allowing the user to
1	stop the motion of the rotor before opening the
1	centrifuge lid.
1	Product's Specifications:
1	* RPM: minimum 6500rpm/2260xg
1	* Capacity: 0.5ml,1.5ml, 2.0ml Centrifuge Tube, 0.2 ml
1	PCR Tube and 0.2ml PCR Tube -8 Strips
1	* Noise: ≤ 50 db
1	* ON/Off Switch
1	* Durable Lid Hinge
1	* Power: 110-240V
1	Supplied with:
1	* Rotor-I: 1.5ml/2.0 ml Micro centrifuge Tube
	* Rotor-II: 8x0.2ml PCR Tube-8 Strips or 32x0.2ml PCR Tube
	* Adaptor: 8x0.5ml Micro Centrifuge Tube and 8x0.2ml
i.	PCR Tube
11	UV Ozone Cleaner
11	UV Ozone Cleaner Features:
11	
11	Features: High Intensity UV Lamp
11	Features: High Intensity UV Lamp
11	Features:High Intensity UV LampHousing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By utilizing the emission at185 nm and 254 nm, ozone is generated. The high intensity output gives results quickly and facilitates a large cleaning area.
11	Features:High Intensity UV LampHousing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By utilizing the emission at 185 nm and 254 nm, ozone is generated. The high intensity output gives results quickly and facilitates a large cleaning area.Large Cleaning Area
11	Features: High Intensity UV Lamp Housing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By utilizing the emission at 185 nm and 254 nm, ozone is generated. The high intensity output gives results quickly and facilitates a large cleaning area. Large Cleaning Area The tray must accommodate wafers up to 153 mm in diameter and 12mm in thickness for a wide array of samples,
11	Features: High Intensity UV Lamp Housing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By utilizing the emission at 185 nm and 254 nm, ozone is generated. The high intensity output gives results quickly and facilitates a large cleaning area. Large Cleaning Area The tray must accommodate wafers up to 153 mm in diameter and 12mm in thickness for a wide array of samples, including:
11	Features: High Intensity UV Lamp Housing a series of high intensity, low pressure synthetic quartz mercury vapour discharge lamps. By utilizing the emission at 185 nm and 254 nm, ozone is generated. The high intensity output gives results quickly and facilitates a large cleaning area. Large Cleaning Area The tray must accommodate wafers up to 153 mm in diameter and 12mm in thickness for a wide array of samples, including: ▶ Microscope
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and electronics. This makes it easy to make sure that delicate samples do not overheat.

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sy: fea	esigned with Safety in Mind stem should adheres to BS EN 61010-1:2010 standards alongside EMC, Low Voltage, and RoHS CE directives. Smart safety atures should integrate safety interlock which keeps the lamp off while the tray is open. Plus, a thermal cutoff should ggered if the temperature detected by any of the internal sensors is too high.
То	chnical Specifications:
	/ Intensity 15 mW·cm-2 at 185 nm
	/ Emission 185 nm and 254 nm LED
-	mp Lifetime >2000 hours
	eaning Area minimum 153 mm diameter
	fety Features Temperature regulation, thermal cutoff, and drawer interlock
	/ Light Specifications
	mp Specifications
	mp Type: Low pressure mercury discharge lamp
	mp Dimensions: ~150 mm x 15 mm (length x diameter)
	Imperior Stamps: 4
	scharge Peaks: 185 nm and 254 nm
	mp Lifetime T80 lifetime 2000 hours
	mple Irradiance Specification
	mple UV Intensity: 15 mW·cm-2 at 185 nm
	eaning Area: 153 mm (6 inch) diameter
	posure Time: 1 second to 60 minute; digitally controlled
	mensions and Weight
	mensions: ~210 mm x 310 mm x 228 mm (W x D x H)
	ay Illumination Area: ~153 mm (6 inch) diameter circle
	aximum Sample Height:~12 mm
	eight: ~5.45 kg
	aterials and Finish Case
	aterial:~1.5 mm mild steel
	nish: Textured black powder coating
	rawer Tray
M	aterial 1.5 mm stainless steel
	nish #4 brushed finish
	ser Interface Display
Ту	pe: 24 bit colour TFT LCD display
	esolution:~480 x 272 px
Siz	ze : ~4.3"
Int	terface
De	escription Tactile buttons
Sa	fety Features
Eq	uipment Safety Features
Dr	awer Interlock: Hardware interlock sensor
Те	mperature Regulation: Active lamp cooling - 53 CFM axial fan
Th	ermal Cutoff: Onboard temperature sensors for software cutoff
Po	ower Supply Input
Va	oltage Range 110 V - 240 V
Fu	ise 1 A
12 Ce	ramic Muffle Furnace 1200°C
De	escription:
Μ	uffle furnace, with features of heating fast, light weight, large capacity, energy saving and safety, Using ceramic fiber inner
ch	maber, has good insulation effect and high temperature control precision, It is widely used in the pharmaceutical industry,
an	alytical chemistry industry, coal quality analysis, building materials industry, etc.
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	Features:
	1.Adopt vacuum forming technology, one-step molding inner chamber, prevent heating devices from polluted by volatile
	matter;
	2. Using high quality wire coil as heater, special anti-corrosion treatment for the wire surface;
	3.Upward door open design, the hot air will will go upside behind the door when it opening, this can offer better protection
	for users ;
	4.Over temperature alarm;
	5.Double layer casing design, make the furnace has better insulation performance and the surface temperature lower.
	Technical Specifications:
	Heating mode: three side heating wire
	Performance
	Temp. Range: 300°C-1200°C
	Temp. Resolution: 1°C
	Temp. Fluctuation: ±1°C
	Heating up time: maximum 30min
	Structure
	Chamber material: Ceramic fiber
	Heating device: nickel-chromium alloy wire
	Shell material: spraying cold rolled steel
	Controller
	Temp. Control: use microcomputer PID control of heating
	Program mode: 40 sections programmable control runs(optional)
	Timer: 0 \sim 9999min
	Sensor: K
	Safety device: over-temperature alarm
	Dimensions (W*D*Hmm)
	Working size: around 200*300*120
	Exterior size: around 480*500*490
	Working capacity: minimum 7L
	Power: AC220V
	Optional device: observation window/vent; chimney; gate turn-off switch
	Precision Balance (3 Digit)
	Technical Specifications:
13	Metrological parameters
	Maximum capacity [Max]: 750g
	Minimum load: 20mg
	Readability [d]: 0.001g
	Tare range: -750g
	Verification scale interval [e]: 0.01g
	Repeatability (Max): 0.0015g
	Repeatability (5% Max): 0.0005g
	Linearity: ±0.003g
	Stabilization time: 2s
	Adjustment: internal (automatic)
	Physical parameters
	OIML Class: II
	Levelling system: manual
	Display: LCD
	Weighing pan dimensions: around 128×128mm
	Protection class: IP 43
	Electrical parameters
	Power supply: 100 — 240 V AC 50 / 60 Hz
	Communication interface: 2×RS232, USB-A, USB-B Environmental conditions



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	Documentation should be included with the system:	
	> IQ & OQ Documents	
	Calibration certificate	
	Calibration Tag	
	Magnetic Hot plate Stirrer Digital with Sensor and Stand	
	Features:	
14	Max. heating temperature is 380°C	
	High resolution LCD displays actual temperature and speed	
	Brushless DC motor is maintenance free	
	Aluminum cover with ceramic work plate, allows for immediate heat transfer	
	External temperature control is possible with temperature sensor PT1000	
	Digital temperature control with max. temperature at 380°C	
	Digital speed control with max. speed up to 1500rpm	
	Max. stirring quantity of H2O at 5L	
	Technical Specifications:	
	Dimension of work plate [W x D]: minimum 140x140mm	
	Work plate material: Aluminum cover with ceramic coating	
	Motor type: Brushless DC motor	
	Motor rating input: ~ 2.4W	
	Motor rating output: ~ 1.8W	
	Power: minimum 510W	
	Heating output: minimum 500W	
	Voltage: 100-120/200-240V 50/60Hz	
	Stirring positions: 1	
	Max. stirring quantity, [H2O]: 5L	
	Max. magnetic bar[length]: 50mm	
	Speed range: 200-1500rpm	
	Speed display: LCD	
	Temperature display: LCD	
	Heating temperature range: Room Temp. 380°C, increment 5°C	
	Control accuracy of work sensor: ±20rpm	
	Over temperature protection: 420°C	
	Temperature display accuracy: ±1°C	
	External temperature sensor: PT1000 (accuracy ±0.5)	
	Protection class: IP21	
	Dimension [W x D x H]: around 215x360x112mm	
	Permissible ambient temperature and humidity: 5-40°C, 80%	

Warranty: 12 Months from the date of installation for the all equipment. **Country of Origin:** USA/UK/EU/Japan/Australia/Canada/Singapore/Equivalent.