

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF EDUCATION



UNIVERSITY OF RUHUNA

ADDENDUM 1

**Supply, Delivery, Installation, Commissioning, Testing and Maintenance of
Laboratory Equipment, Plant & Machinery, Computer
Software/Hardware & Accessories, Office Equipment & Furniture &
Others for University of Ruhuna**

RUH/SUP/MENA/NCB/2023/01

**Package No. 09: Supply, Delivery, Installation, Commissioning, Testing and
Maintenance of Electrical Items and Accessories for DMENA, Faculty of
Engineering, University of Ruhuna.**

This Amendment shall be considered part of the bid documents for the Supply, Delivery, Installation, Commissioning, Testing and Maintenance of Laboratory Equipment, Plant & Machinery, Computer Software/Hardware & Accessories, Office Equipment & Furniture & Others for the DMENA, Faculty of Engineering, University of Ruhuna and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this Amendment shall govern and take precedence. BIDDERS MUST SIGN THE AMENDMENT AND SUBMIT IT WITH THEIR BIDS.

Except as described below, the original bid document remains unchanged. The bid documents are modified and/or clarified, as follows;

Section II

Bidding Data Sheet (BDS)

The date in ITB 19.1, 20.2, 23.1 & ITB 26.1 has been changed as follows and other details remains unchanged.

ITB Clause Reference	A. General																																												
ITB 19.1	The bid shall be validity until: 90 days from the bid opening date																																												
ITB 20.2	<p>The amount of the Bid Security shall be as follows:</p> <p><u>Package No. 09: Supply, Delivery, Commissioning, Testing and Maintenance of Electrical Items and Accessories</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Item No</th> <th style="text-align: center;">Goods/Descriptions</th> <th style="text-align: center;">Qty</th> <th style="text-align: center;">Bid Security (Rs.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">9.1</td> <td>Photocopier, Laser Network Printer and Scanner Unit</td> <td style="text-align: center;">03</td> <td style="text-align: right;">20,000.00</td> </tr> <tr> <td style="text-align: center;">9.2</td> <td>Network Printer</td> <td style="text-align: center;">02</td> <td style="text-align: right;">4,000.00</td> </tr> <tr> <td style="text-align: center;">9.3</td> <td>Multi-media Projectors</td> <td style="text-align: center;">03</td> <td style="text-align: right;">10,000.00</td> </tr> <tr> <td style="text-align: center;">9.4</td> <td>Projector Screen</td> <td style="text-align: center;">03</td> <td style="text-align: right;">1,000.00</td> </tr> <tr> <td style="text-align: center;">9.5</td> <td>Sound System</td> <td style="text-align: center;">03</td> <td style="text-align: right;">3,000.00</td> </tr> <tr> <td style="text-align: center;">9.6</td> <td>Pedestal Fans</td> <td style="text-align: center;">15</td> <td style="text-align: right;">8,000.00</td> </tr> <tr> <td style="text-align: center;">9.7</td> <td>Split type Air Conditioning Units with inverter</td> <td style="text-align: center;">04</td> <td style="text-align: right;">20,000.00</td> </tr> <tr> <td style="text-align: center;">9.8</td> <td>Heavy Duty Vacuum Cleaner</td> <td style="text-align: center;">01</td> <td style="text-align: right;">500.00</td> </tr> <tr> <td style="text-align: center;">9.9</td> <td>Electric Kettle (1.2 l)</td> <td style="text-align: center;">02</td> <td style="text-align: right;">350.00</td> </tr> <tr> <td style="text-align: center;">9.10</td> <td>Smart Locks</td> <td style="text-align: center;">02</td> <td style="text-align: right;">1,500.00</td> </tr> </tbody> </table> <p>Beneficiary: Vice Chancellor, University of Ruhuna The validity period of the Bid Security shall be until: 30 days beyond the date of bid validity period.</p>	Item No	Goods/Descriptions	Qty	Bid Security (Rs.)	9.1	Photocopier, Laser Network Printer and Scanner Unit	03	20,000.00	9.2	Network Printer	02	4,000.00	9.3	Multi-media Projectors	03	10,000.00	9.4	Projector Screen	03	1,000.00	9.5	Sound System	03	3,000.00	9.6	Pedestal Fans	15	8,000.00	9.7	Split type Air Conditioning Units with inverter	04	20,000.00	9.8	Heavy Duty Vacuum Cleaner	01	500.00	9.9	Electric Kettle (1.2 l)	02	350.00	9.10	Smart Locks	02	1,500.00
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9.10	Smart Locks	02	1,500.00																																										
ITB 23.1	<p>For bid submission purposes, the Purchaser's address is:</p> <p>Attention: The Chairman, Ministry Procurement Committee, Ministry of Education, Higher Education Division, No 18, Ward Place, Colombo 07 Tender Box – Director, Infrastructure Development Office</p> <p>The deadline for the submission of bids is: Date: 29.08.2023 Time: 11.00 hours</p>																																												
ITB 26.1	<p>The bid opening shall take place at:</p> <p>Address: The Chairman, Ministry Procurement Committee, Ministry of Education, Higher Education Division, No 18, Ward Place, Colombo 07 Tender Box – Director, Infrastructure Development Office Date: 29.08.2023 Time: 11.00 hours</p>																																												

Section V

Schedule of Requirements

2. Technical Specifications and Bidder's Response

(No alternative design shall be considered. The bidder shall follow the technical specifications given in relevant drawings and other requirements given in the bidding document.)

2.1 Technical Specifications

RUH/SUP/MENA/NCB/2023/01

Item No	Goods/Descriptions	Specification
9.1	Photocopier, Laser Network Printer and Scanner Unit	Appendix 9.1
9.2	Network Printer	Appendix 9.2
9.3	Multi-media Projectors	Appendix 9.3
9.4	Projector Screen	Appendix 9.4
9.5	Sound System	Appendix 9.5
9.6	Pedestal Fans	Appendix 9.6
9.7	Split type Air Conditioning Units with inverter	Appendix 9.7
9.8	Heavy Duty Vacuum Cleaner	Appendix 9.8
9.9	Electric Kettle (1.2 l)	Appendix 9.9
9.10	Smart Locks	Appendix 9.10

2.2 Bidder's Response

RUH/SUP/MENA/NCB/2023/01

Item No	Description of Goods	Qty	Specifications	Bidder's Response		Remarks
				Yes	No	
9.1	Photocopier, Laser Network Printer and Scanner Unit	03	Appendix 9.1			
9.2	Network Printer	02	Appendix 9.2			
9.3	Multi-media Projectors	03	Appendix 9.3			
9.4	Projector Screen	03	Appendix 9.4			
9.5	Sound System	03	Appendix 9.5			
9.6	Pedestal Fans	15	Appendix 9.6			
9.7	Split type Air Conditioning Units with inverter	04	Appendix 9.7			
9.8	Heavy Duty Vacuum Cleaner	01	Appendix 9.8			
9.9	Electric Kettle (1.2 l)	02	Appendix 9.9			
9.10	Smart Locks	02	Appendix 9.10			

Appendix 9.1

Specification: **Photocopier, Laser Network Printer and Scanner Units Machines (03 Nos)**

Item No.	Feature	Required Specification	Bidders Compliance		If not, Bidder's offer
			Yes	No	
1	Printer Type	Monochrome Laser Multifunctional			
		Automatic duplex printing			
		Automatic document feeder			
2	Main functions	Print, Copy, Scan, Store			
3	Make	(Specify)			
4	Model	(Specify)			
5	Country of Origin	(Specify)			
6	Country of Manufacture	(Specify)			
7	Print resolution	1200 x 1200 or more			
8	Copy resolution	600 x 600 or more			
9	Scan resolution	600 x 600 or more			
10	Interface connectivity	Network: Standard: 1000Base-T/100Base-TX/10Base-T			
		Wireless: Wifi (IEEE 802.11 b/g/n)			
		Standard: USB 2.0 (Host) x1/ USB 3.0 (Host) x1, USB 2.0 (Device) x1			
11	Print Supported media size	Multi-purpose tray/ cassettes: Standard size: SRA3, A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R Must support custom sizes. Envelopes.			
12	Scan media size	Platen scanning size: up to 297.0 x 431.8 mm Document Feeder media size: A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R, B6R			
13	Paper input capacity	A4: Over 400 papers per cassette			
		A3: Over 400 papers per cassette			
14	Finishing capability	Collate, group, offset, staple, hole punch			
15	Direct Print support	PDF, EPS, TIFF/JPEG, and XPS			
16	Print speed	A4 (80gsm): Over 35 ppm			
		A3: over 15 ppm			
17	Copy speed	A4: Over 35 ppm			
		A3: over 15 ppm			

18	Multiple copies	Over 1000			
19	Scanner speed	Please specify			
20	Scanning method	Push Scan, Pull Scan, Scan to Network, Scan to USB Memory Key			
21	Printer features	Secured Print			
		Secure Watermark			
		Header/Footer			
		Page Layout			
		Front/Back Covers			
		Forced Hold printing			
		Scheduled Printing			
		Toner Reduction			
		Other (please specify)			
22	Copier features	Preset R/E Ratios by Area			
		Two - Sided			
		Density Adjustment			
		Copy ID Card			
		Free size			
		Other (please specify)			
23	Scanner features	Manual or automatic feeding			
		Detect the paper			
		Other (please specify)			
24	Warmup time	Less than 10 seconds			
25	Inbuilt Memory	Over 4GB			
26	Inbuilt Storage	Over 100GB			
27	Operating system	Windows® 8.1/10/11/Server2012/Server2012 R2/ Server2016/Server2019, Mac OS X(10.11 or later), Linux server			
28	Printer management software	Should be included. Password enabled. Please specify other details			
29	Communication protocol	File: FTP(TCP/IP), SMB3.0 (TCP/IP) E-mail: SMTP, POP3			
30	Monthly duty cycle	100,000 or more pages			
31	Power supply	220 ~ 230 V, 50 Hz			
32	Accessories	Stand for the printer			
33	Operational Environmental Condition	Should function without any defect under the climatic conditions prevailing in Sri Lankan environments			
34	Warranty	3 Years comprehensive warranty			

35	Supply, Installation, Commissioning and Testing	Required				
36	Number of Free Services	Please specify number of free services carried out per year during the period of warranty				
37	Manufacturer Experience	Over 10 years in the same field and similar products				
38	Bidders Experience	The bidder should have successfully sold same similar product for last 5 years (Bidder should provide documentary evidence to support the above)				
39	Cost of consumable items	<i>Item</i>	<i>No. of Copies</i>	<i>Cost per Copy (Rs. Cts.)</i>		
		Toner				
		Drum				
		Developer				
		Total Cost per copy				
40	Annual maintenance and service cost	<i>Duration after warranty period</i>	<i>Annual Agreement Cost without taxes (Rs. Cts.)</i>			
		1	First year (at the end of year 1)			
		2	Second year (at the end of year 2)			
		3	Third year (at the end of year 3)			
		4	Fourth year (at the end of year 4)			
		5	Fifth year (at the end of year 5)			
			Total maintenance Agreement cost for five years			

Appendix 9.2

Specification: Laser Network Printer (02 Nos)

Item No.	Specification	Requirement	Bidders Compliance		If not, Bidder's offer
			Yes	No	
1	Printer Type	Monochrome Laser Multifunctional			
		Automatic duplex printing			
		Automatic document feeder			
2	Main functions	Print			
3	Make	(Specify)			
4	Model	(Specify)			
5	Country of Origin	(Specify)			
6	Country of Manufacture	(Specify)			
7	Print resolution	1200 x 1200 dpi or more			
8	Interface connectivity	Network: Standard: 1000Base-T/100Base-TX/10Base-T			
		Wireless: Wifi (IEEE 802.11 b/g/n)			
		Standard: USB 2.0 (Host) x1/ USB 3.0 (Host) x1, USB 2.0 (Device) x1			
9	Print Supported media size	Multi-purpose tray/ cassettes: Standard size: SRA3, A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R Must support custom sizes. Envelopes.			
10	Paper input capacity	A4: Over 400 papers per cassette			
		A3: Over 400 papers per cassette			
11	Finishing capability	Collate, group, offset, staple, hole punch			
12	Direct Print support	PDF, EPS, TIFF/JPEG, and XPS			
13	Print speed	A4 (80gsm): Over 45 ppm			
		A3: over 20 ppm			
14	Copy speed	A4: Over 45 ppm			
		A3: over 20 ppm			
15	Multiple copies	Over 1000			
16	Printer features	Secured Print			
		Secure Watermark			
		Header/Footer			
		Page Layout			

		Front/Back Covers			
		Forced Hold printing			
		Scheduled Printing			
		Toner Reduction			
		Other (please specify)			
17	Warmup time	Less than 10 seconds			
18	Inbuilt Memory	Over 4GB			
19	Inbuilt Storage	Over 100GB			
20	Operating system	Windows® 8.1/10/Server2012/Server2012 R2/ Server2016/Server2019, Mac OS X(10.11 or later), Linux server			
21	Printer management software	Should be included. Password enabled. Please specify other details			
22	Communication protocol	File: FTP(TCP/IP), SMB3.0 (TCP/IP) E-mail: SMTP, POP3			
23	Monthly duty cycle	100,000 or more pages			
24	Control Panel	2 – line backlit LCD graphic display; LED indicator lights			
25	Power Supply	220 ~ 230 V, 50Hz			
26	Accessories	Stand for the printer			
27	Operational Environmental Condition	Should function without any defect under the climatic conditions prevailing in Sri Lankan environments			
28	Warranty	3 Years comprehensive warranty			
29	Supply, Installation, Commissioning and Testing	Required			
30	Number of Free Services	Please specify number of free services carried out per year during the period of warranty			
31	Manufacturer Experience	Over 10 years in the same field and similar products			
32	Bidders Experience	The bidder should have successfully sold same similar product for last 5 years (Bidder should provide documentary evidence to support the above)			
33	Cost of consumable items	<i>Item</i>	<i>No. of Copies</i>	<i>Cost per Copy (Rs. Cts.)</i>	
		Toner			
		Drum			
		Developer			
		Total Cost per copy			
34	Annual	<i>Duration</i>	<i>Annual Agreement Cost without taxes</i>		

	maintenance and service cost	<i>after warranty period</i>	(Rs. Cts.)			
		1	First year (at the end of year 1)			
		2	Second year (at the end of year 2)			
		3	Third year (at the end of year 3)			
		4	Fourth year (at the end of year 4)			
		5	Fifth year (at the end of year 5)			
			Total maintenance Agreement cost for five years			

Appendix 9.3

Specification: Multimedia Projectors (03 Nos)

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Item	Minimum Specification			
2	Brand	(Specify)			
3	Model	(Specify)			
4	Country of Origin	(Specify)			
5	Country of Manufacture / Assembled	(Specify)			
6	Projection System Technology	DLP			
7	Display	Panel 0.55" Dark Chip 3 DMD or better			
8	Resolution Native	WXGA (1280 x 800) or better			
9	Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1080p), EDTV (480p, 576p), SDTV (480i, 576i)			
10	Aspect Ratio	16:9 (Native),			
11	Contrast Ratio	15,000:1 or better			
12	Displayable Colors	1.07 Billion Colors			
13	Brightness	4,000 Above ANSI Lumens (Standard),			
14	Projection Lens	F = 2.70, f = 7.15mm, Manual Focus			
15	Projection Screen Size	(Diagonal) 120"			
16	Projection Distance	0.4m - 3.8m			
17	Throw Ratio	0.617 (77"@97cm)			
18	KeyStone Correction	Please Specify			
19	Lamp Type	200W or above			
20	Lamp Life	6,000 Hours (Standard), 12,000 Hours (ECO/Extreme ECO) or better			

21	Keystone Correction	+/-40 Degrees (Vertical), Manual or better			
22	Projection Mode	Front, Rear, Front-Ceiling, Rear-Ceiling			
23	Ceiling Mounting Capability	Yes			
24	Remote Control	Remote controller must be available			
25	Digital Zoom	2X or Above			
26	Power Supply	AC input 100 V ~ 240 V auto-switching power supply			
27	Power Consumption	Please specify			
28	Noise Level	32 dBA (Standard),			
		24 dBA (ECO) or better			
29	Input Interface	Analog RGB/Component Video (D-sub) x 2 Composite Video (RCA) x 1 HDMI/MHL (Video, Audio, HDCP) x 1 HDMI (Video, Audio, HDCP) x 1 PC Audio (Stereo mini jack) x 1			
30	Output Interface	Analog RGB (D-sub) x 1 PC Audio (Stereo mini jack) x 1 DC Out (5V/1A, USB Type A) x 1, share the input interface			
31	Standard Accessories AC power cord	AC power cord Remote control Battery for remote control Lens cap Carrying case User's guide (CD-ROM) Quick start guide			
32	Native Aspect Ratio	16:9			
33	Digital Zoom and Pan	Digital Zoom and Pan			
34	Auto Shutdown	Should be Available			

35	Manufacture Experience	Manufacturer should have minimum of ten years' experience in manufacturing of the same brand. (Proof document should be attached)			
36	Bidders Experience	The bidder should have successfully sold same similar product for last 3 years (Bidder should provide documentary evidence to support the above)			
37	Manufacturer Authorization Certificate	Manufacturer Authorization Certificate should be provided (Originals should be provided on request)			
38	Warranty	<p>Comprehensive on-site manufacturer authorized warranty for 36 months (Labor & Parts) Excluding Consumes.</p> <p>Bidder or its parent company or its subsidiary should have Island wide owned branch network</p> <p>Documentary evidence to be provided of the following under bidders' name.</p> <p>(a) Address, Contact Details & Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each Branch/Regional Office)</p>			
39	Special Warranty Requirement	4,000 Hours for the Lamp			
40	Warranty Information	<p>A sticker with</p> <ul style="list-style-type: none"> -Supplier name -Contact Numbers -Date of Commissioning of Hardware -Warranty Period <p>On Multimedia Projector</p>			
41	Manual	Supplier should provide Manual of make/model quoted as per above specification			

Appendix 9.4

Specification: **Motorized Remote Control Projector Screens (03 Nos.)**

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Size	Height – 96”			
		Width – 96”			
2	Motor	Yes			
3	Remote Controlled	Yes			
4	Cassette Color	White			
5	Cassette Material	Suitable for a corrosive atmospheric environment			
6	Surface	Matte white			
7	Power	220 V ~ 230 V, 50 Hz			
8	Warranty	At least 1 year			

Appendix 9.5

Specification: Stereo Sound System for Lecture Rooms (03 Nos.)

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	General	Combination Receiver/ Speaker (2 Speaker - Stereo) Array with a digitally built in amplifier for Lecture Room			
2	Power Supply	220 V – 240 V, 50Hz			
3	Transmission type	FM			
4	Connectivity	Wi – Fi , Bluetooth			
5	Receiving Frequency	Bidder to specify (Bidder shall ensure compliance with the law of the country and any regulations stipulated by the Telecom Regulatory Council of Sri Lanka)			
6	Maximum Audio Output Power	36W RMS@4 Ohmega x 2			
7	Power Supply	220 V ~ 230 V, 50Hz			
8	Battery	NiMH rechargeable (Bidder to Specify if other)			
9	Battery life	Minimum - 6.5 hrs			
10	Recharging time	Bidder to specify			
11	Input	1 x Aux-in			
12	Output	1 x Aux-out			
13	Size	183(W) x 85(D) x 750 (H) mm			
14	Weight	6 kg			
15	Ancillary equipment	Body worn transmitter Handheld microphone/ transmitter Charging stand			
16	Warranty	At least 3 years			

Appendix 9.6

Specification: **Pedestal Fans (15 Nos.)**

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Power Supply	220 V – 240V, 50Hz			
2	Number of Blades	3			
3	Functional Requirements	Tiltable head Telescopic height Oscillating function To be used in corrosive environment			
4	Fan Speed	3 Speeds			
5	Color	Blue			
6	Dimension	Bidder to specify			
7	Country of Manufacture	Bidder to specify			
8	Brand	Bidder to specify			
9	Warranty	At least 3 year			

Appendix 9.7

Specification: **Split Type Air Conditioning Unit with inverter, 36000 BTU (4 Nos)**

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Capacity	36,000 BTU			
2	Power Supply	380V, 50 Hz, 3 Ph			
3	Refrigerant	R410a			
4	Type	Wall mounted split type, air cool and free blower			
5	Protection Devices The air-conditioning unit should be supplied with following protection devices.	a. Internal Thermostat			
		b. Over Current Relay			
6	Outdoor Unit	a. Out Door Unit should be consisting of suction valve and discharge valve for the convenience of repairs.			
		b. Housing of the outdoor unit should be corrosion resistance and shall be able to bear salty and hot weather conditions.			
7	Indoor Unit	a. Housing of the indoor unit should be plastic or non-corrosive material.			
		b. Manual on/off switch should be available.			
		c. Blower should be direct driven			
		d. Noise level of the Indoor Unit should be less than 40 dB.			
		e. The following indicators should be available. i. Power supply ii. Compressor Operation iii. Air Swing			
8	Remote Control	a. Remote Control should indicate Room Temperature, Strength of the Batteries, Operational errors of the unit etc.			

		<p>b. Facilities should be available for Temperature setting 16 °C to 32 °C, Fan speed setting – Low/Medium/High, Air Swing on/off</p>			
9	Spare Parts	<p>The supplier should submit list of spare parts with the prices for five years of operation including followings.</p> <ul style="list-style-type: none"> a. High Side Condenser - 01 No. b. Fan Motor (Outdoor Unit) – 01 No. c. Fan Motor (Indoor Unit) - 01 No. d. Control Module(Indoor) - 01 Set e. Control Module(Outdoor) - 01 Set f. Remote control - 01 No. 			
		<p>The supplier should give an assurance in writing to supply spare parts including following for a period of 8 years.</p> <ul style="list-style-type: none"> a. Out Door Unit – Fan Blade b. Fan Motors c. High Side Condenser d. Control Module e. Magnetic Relay f. Capillary System g. Remote Control 			
10	Installation and Maintenance	<p>a. Mounting/ Fitting indoor & outdoor units at the respective locations as per standard practice including Leak testing and additional refrigerant charge if required.</p>			
		<p>b. Supply, installation, testing and commissioning of suitable size (minimum gauge 0.61mm) copper refrigerant lines (suction and return) including insulation of minimum 13 mm thickness nitride rubber with aluminum foil covering along with required electrical and control cabling as per standard practice.</p>			

		c. Supply and laying of PVC drain piping as per standard practice.			
		d. In case of emergency breakdown, supplier should attend the repair and maintenance works within 24 hours			
		e. Bidder should forward contact telephone number for reporting breakdowns.			
12	Warranty	a. Warranty period for the air-conditioning unit should be minimum one year from the date of installation			
		b. Warranty period for the compressor and condenser should be minimum five years from the date of installation.			
		c. If the compressor or any other parts have to be replaced due to a defect identified during the guarantee period, the supplier should not introduce any replacement cost that will be incurred to the Client			

Appendix 9.8

Specification: **Heavy Duty Vacuum Cleaner (Wet & Dry) (1 No)**

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Container capacity	25 liters – 50 liters			
2	Air flow	142 cfm or more			
3	Power	220 V – 240 V, 50 Hz			
4	Weight	Maximum 20 kg			
5	Dimensions (L x W x H)	550 mm x 650 mm x 1100 mm			
6	Length of Power Cord	Minimum 25 ft (7.62 m)			
7	Dust filter type	Specify			
8	Accessories	a. Dust filter/ Paper filter bags (5 Nos)			
		b. All – purpose nozzle			
		c. Hose with comfortable hand grip			
		d. Metal suction tube			
		e. Crevice nozzle			
		f. Wet filter and wet filter bag for damp applications			
9	Warranty	At least 3 years			

Appendix 9.9

Specification: **Electric Kettle, 1.2 liters (2 Nos)**

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Capacity	1.2 liters			
2	Power	220 V – 240 V, 50 Hz			
3	Water level indicator	Required			
4	Auto shut off	Automatic stop switch			
5	Body material	Stainless steel			
9	Warranty	At least 1 year			

Appendix 9.10

Specification: Smart Lock (2 Nos)

Item No.	Specification	Requirements	Conformity		If No, Bidder's Response
			Yes	No	
1	Mode of access control	a. Fingerprint			
		b. Digital password/ PIN Code			
		c. Access card			
		d. Phone App for Admin			
2	Emergency key override	Required			
3	Data Capacity	Number of fingerprints/ Individual User Codes shall be Hundred (100) or more			
4	Fingerprint reader	Required			
5	PIN code touchpad	Required			
6	Remote Authorization and Management for Admin	Required via Wi – fi and Bluetooth			
7	Phone App	a. Should be capable of managing e-keys, fingerprints and Passcodes from within the App.			
		b. Review access logs in timeline order			
		c. Receive unlock notifications instantly			
		d. Update firmware on the locks			
8	Power	a. 6V ~ 8V, Battery powered (Rechargeable Batteries); batteries shall be provided by supplier			
		b. Emergency power supply via USB interface			
		c. Battery life shall be 12 months or more than ten thousand (10,000) openings			
		d. Battery replacement warning required			
9	Body material	304 Stainless steel			
10	Operational atmosphere	High humidity and corrosive			
11	Temperature	-20 °C ~ 55 °C			
12	Warranty	At least 3 years			