Initial Specifications

(Attachments for Tensiometer GBX-ILMS)

Item # 1 (a)	
Name of Equipment/Item	Part No.
Contact angle measurement tester	DGD-01-01-ILMS or equivalent
Item # 1 (b)	
Absorption and capillary rise tester	01-02-05-0501 or equivalent
Item # 1 (c)	
Advancing and receding angle tester	01-02-05-0801 or equivalent

Feel free for any query:

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Initial Specifications of Item # 01

Instrument: High Resolution Microscope
Type: stereo microscope
Optical Zoom 1-4X or better
Trinocular tube
45 degrees inclination trinocular tube
Eyepiece 10X (focusable)
LED illuminator stand
Camera 6 mega pixel or higher
Computer i5 or Higher, 500 GB Hard disk, 8GB RAM or higher

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Initial Specifications of Item # 02

Instrument: Elmendorf Tear Tester

Automatic Electronically controlled device
Electronic braking (electromagnetic)
Pneumatic Clamps
Measuring Range: 128 N
Angular encoder
Variable Testing range
Adjustable pendulum balance
Stable platform
Manufacturer Certification CE, ISO 17025, ISO 9001
Units display: N, cN, gf

Standard

ASTM D1424
ISO 13937-1

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Initial Specifications of Item # 03

| Instrument: Pneumatic Bursting Strength Tester |
| --- |
| Pneumatic operation |
| Pressure capacity: 2 Mpa |
| Interchangeable test bells and clamping rings, automatically detected by instrument to avoid errors |
| Automatic correction for diaphragm pressure |
| Adjustable clamping pressure to eliminate specimen slippage |
| Manufacturer Certification CE, ISO 17025, ISO 9001 |
| Automatic flow rate adjustment to achieve burst in required time |
| Preprogrammed software |
| **Standard** |
| ASTM D3786 |
| ISO 13938-2 |

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Specifications of Furniture

Work station with Glass partitions

wire holes.

Glass Partition

width transluscent (white) sheet lamination

Light Brown color sheet
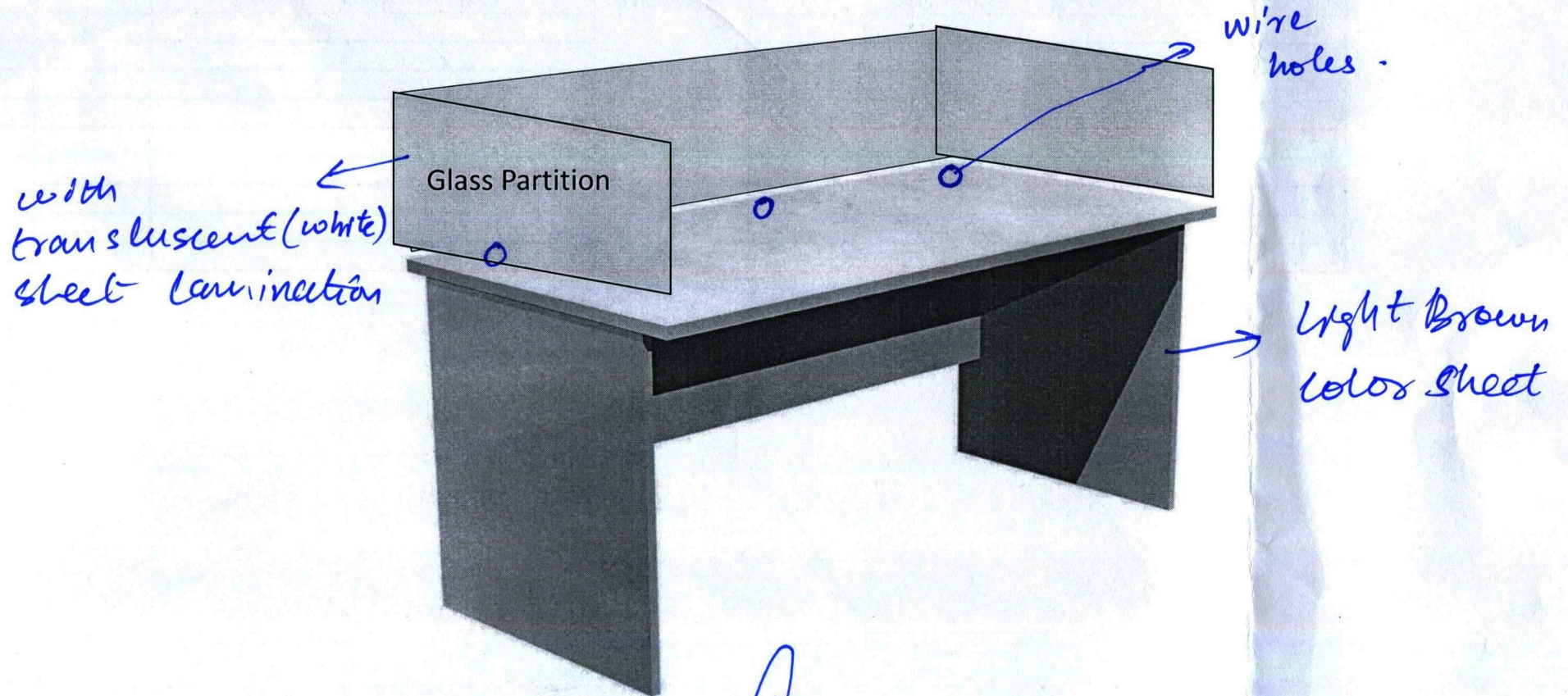
All furniture should have same color.

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Centre Table
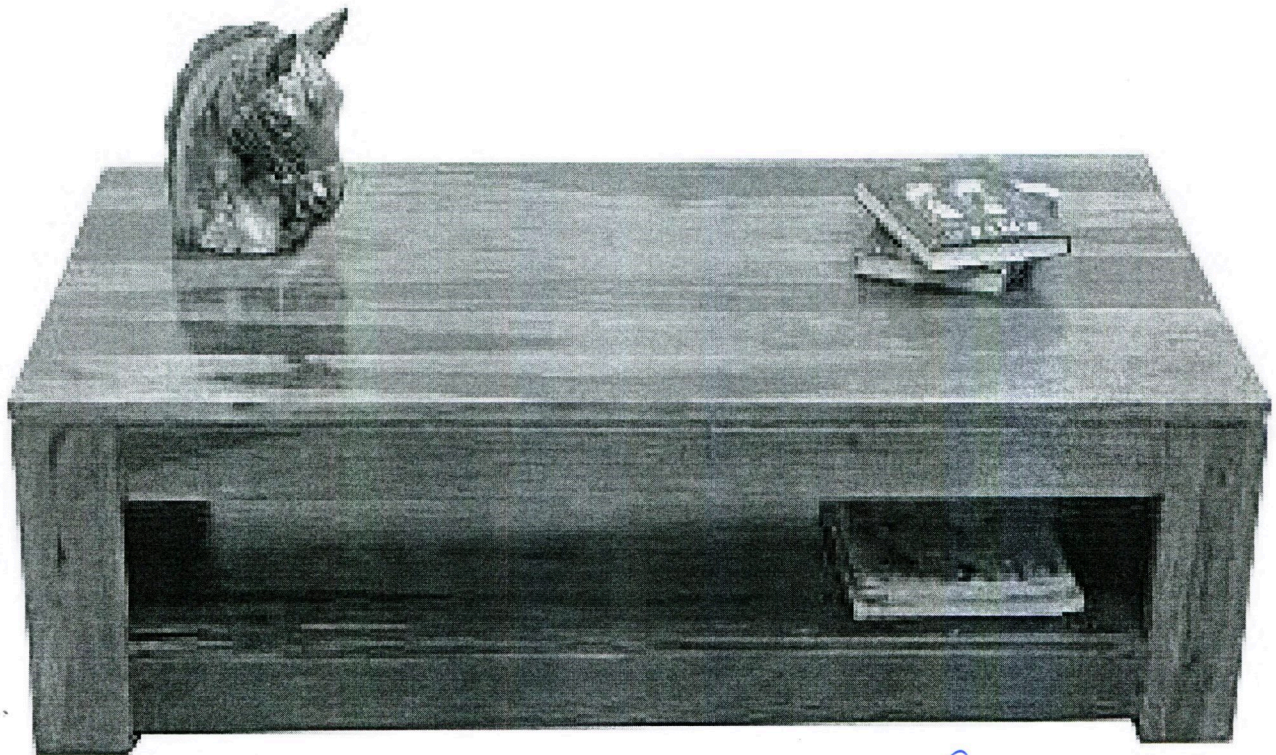
Color same as
workstation

10/08

Single Seater Sofa

Black color.

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Drawer Rack

→ should have handle & lock
→ color same as workstation

10/08

Black color.

Technical specifications of IT equipment

S/No	Name	Specification	Quantity
1	Laser jet Color Network Printer	**printer** Print speed Letter: Up to 55 ppm black; Print resolution Up to 1200 x 1200 dpi Print Technology Laser; Print Resolution Technologies: 1200; 1200 x 1200 dpi Printing : Color printing It must support network connectivity and full duplex in printing. Or commonly network duplex printer (dn) Print preview, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB Printer Management Standard Connectivity: 1 Hi-Speed USB 2.0 Device; 2 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet 10/100/1000T network with Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n Memory Standard: 512 MB or above Input Capacities: 100-sheet multipurpose feeder, 550-sheet input feeder; Up to 650 sheets standard labels legal; Duplex Options: Automatic (standard); Envelope Feeder: Must support Android, Linux and windows operating system Should meet ISO standards (ISO/IEC 19798, 24734, 17629, 17752)	01
2	Photocopier Machine	**Photocopier Machine** Must support Color Scanning options Copy / Print Speed on A4 25ppm Print Resolution 1200 x 1200dpi Technology Digital Laser Dry Electrostatic System Magnification Copy Ratio: 25 - 400% First Copy Time 7 seconds or less Warm-Up Time 30 seconds maximum after on 1 second for sleep mode Multiple Copies / Prints 1 to 999 copies Duplex Built in Paper Capacity Cassette Standard: 250 + 550 sheets paper, 100 Sheets Stack By Pass Paper Size Letter/Legal/A3 Interface Ethernet (100Base-TX / 10Base-T), USB 2.0 Latest Technology Oil and Developer Free machines Optional Duplex Automatic Document Feeder and Trolley Must support Communication Protocols FTP (TCP/IP), SMB (TCP/IP). E-Mail/I-Fax: SMTP, POP3, I-FAX (Simple) File Format TIFF, JPEG, PDF, PDF (Compact), PDF (OCR) Fax Data Format TIFF (MH). Must support Monarch/DL/ISO-B5/ISO-C5) standards for paper feeding and output papers.	01

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Feature /Specification	Description / Detail	
3	Multimedia Projector	
	Brightness	3300 Lumens or higher
	Resolution	Native XGA (1024x768) support up-to WUXGA (1920x1200)
	Contrast Ratio	16,000:1 or above
	Ports (Inputs & outputs)	USB port of Type A and Type B, Dual RGB Input, monitor Output, RJ-45 Network Port and HDMI Input
	Lamp Life	High bright lamp with Up to 10,000hrs lamp life in eco mode or above
	WiFi Device	WiFi device for WiFi connectivity for Android, Windows, iPhone, MAC
	Features	Computer free presentation supportive, WiFi Dongle must support / contain installable software driver / package / firmware feature on Windows Pc, Mobile phone iPhone, Android MAC etc. /Antitheft Bar / equivalent feature
	Speaker	10 Watt built-in Speaker or above
	Ceiling Mount Stand	2.5 feet long standard ceiling mount multimedia kit
	Warranty	One year General warranty
	Standard Accessories	Wireless remote, control unit with Battery, Power cord VGA cable, Driver CD ROM / USB etc..

For the projector (item 3), quantity **01**.

Must support ISO/IEC 21118: 2012 international standards. Should be worldwide known and continued model, with information / product broacher available on manufacturer website. Discontinued models are not acceptable

4	Air Conditioner	Air conditioner (Split Unit) with DC invertor type technology having capacity of One **Ton (1 ton)**	**01**
		Air conditioner (Split Unit) with DC invertor type technology having capacity of One & Half **Ton (1.5 ton)**	**01**

All the products must be branded and packed by original manufacturer. No discontinued and absolute models will be accepted.

Muhammad Shahzad Arshad
System & Security Administrator
National Textile University
Faisalabad.

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Initial Specifications of

Mini Jacquard Single Knit Machine
(with plaited option)

Description	Specifications
Diameter	Min 7" to 12" & above
Gauge	16 E to 20 E & above
Feeds	12 to 24 & above (Plaited Feeds)
Attachments	Lycra Attachments + Computer System & Software
Techniques	Computerized Jacquard, Transfer Stitch System
End Products	Single knit specialized products and all types of jacquard fabric with different types of yarns

Tender may please be published with **PPRA Rule – 36d** , **C&F basis**

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Chairperson, Knitting