DIRECTORATE FOR APPLIED SHORT-TERM PROGRAMMES

KOTTAYAM - 686560 Phone: 0481-2731066 Mail: dasp@mgu.ac.in

Re-tender No. 140532/DASP-01/ONLINE EXAM CENTRE-PHASE-II/2021 Date: 15.03.2022

RE-TENDER NOTICE

Online bids (technical & financial) are invited from reputed firms on Turn Key basis for the Phase- II of the Centralized Online Examination Facility which includes supply, installation and setting up of Online Examination facility at DASP. The period of the tender is 180 days from the date of tender.

	1	10
SI. No.	DESCRIPTION OF TENDER	
1.	Tender Title	Centralized Online Examination Facility Phase II for 210 seating capacity
2.	Name of work	Supply, Installation and Setting up of Online Examination facility at DASP, M G University, on Turn Key Basis as per the specifications given as Appendix A to this notice.
3.	Tender submission fee	Rs 25000 /- + GST (Tender fee: 0.15 % of PAC rounded to the nearest multiple of Rs. 100, subject to a maximum of Rs. 25000/- + admissible GST)
4.	Earnest money deposit (EMD)	Rs 3,00,069.00 <i>I</i> - (1% of the Purchase Assessment Cost(PAC), subject to a minimum of Rs. 1500/-)
5.	Expected Period of Completion of work	120 days
6.	Mode of submission of Bid	Online
7.	Tender Documents	can be downloaded from the website www.etenders.kerala.gov.in
8.	Last date and time of submission of tender by online	

	OTHER TO	30/03/2022, 5:00 PM
9.	Date and time of opening of the technical bid	31/03/2022 10:00 AM

DOCUMENTS TO BE SUBMITTED THROUGH ONLINE ALONG WITH THE BID

- 1. Scanned copy of valid Registration Certificate & Dealership Certificate
- ීනු ම්ද 3. Scanned copy of other certificate/certificates required, if any, for the acceptance of the tender
- 4. BOQ

SPECIAL CONDITIONS

- 1. The intended bidders can verify the proposed site and building (University Front Office Building) between 10.15 am and 4.45 pm on all working days till the last date of the submission of the tender.
- 2. Quoted price in the BOQ should be inclusive of all taxes, freight, loading & unloading / installation charges.
- 3. Details such as make, model, mode of operation etc., should be clearly mentioned in the quotation.
- 4. Quoted rates should have at least six months validity period.
- 5. The right to accept or reject the quotations without assigning any reason rests entirely with the undersigned.
- 6. The tender should be of branded quality products
- 7. Brochure of products and different models quoted should be enclosed.
- 8. If a negotiation meeting is convened by the undersigned, the authorized person of the firm should attend the meeting in time at their cost.
- 9. Payment process will be initiated only after satisfactory supply of the items and installation after receiving reports from the experts from the University.
- 10. If the date of receipt and opening of the tenders is declared a holiday, the same time of the next working day will be the last date and time for the purpose.

The bids shall be opened at the date and time specified. Further details can be had from the Directorate for Applied Short-term Programmes, Mahatma Gandhi University, Kottayam, Kerala-686560 on all working days during working hours. Phone no. 0481- 2731066 (DASP), Mob: 8078010009 (IT Consultant), Mob: 9447507660 (University Engineer). The bidders are advised to submit their bid well in advance to avoid any kind of network problems. The undersigned reserves the right to reject any or all of the tenders without assigning any reason whatsoever.

Director-in-Charge Directorate for Applied Short-term Programmes Mahatma Gandhi University

TECHNICAL SPECIFICATIONS

S.NO	DESCRIPTION	SPECIFICATION PARAMETER	UNIT	QTY
Α	CAT 6 UTP	COPPER CABLE		
1	CAT-6 UTP Cable	23 AWG Annealed bare solid copper, LSZH, 700 Mhz, roll of 305 mtrs	Box	16
2	PAIRS Colour code	Blue / White-Blue, Orange / White- Orange Green / White-Green, Brown / White – Brown		
3	Type Of Conductors	4 pair 23 AWG Conductors and star Separator.		a
4	Insulation	Polyethylene		0
5	Performance Characteristics	Category 6 EIA/TIA 568.C.2	_ 83	
6	Compliance	ROHS Complaint, ETL Verified & Tested	Co	
В	CAT 6 RJ45 INF	ORMATION OUTLET	Nos	210
1	Contact Material	Copper Alloy		
2	Contact Plating	50 Micron Gold/100 micron Nickel		
3	Dust Cover on the I.O	To avoid dust contaminants. Spring Loaded Shutter		
4	Plastic Housing	Polycarbonate UL94V-0 Rated		
5	Termination Cap	Has to be provided at rear of the Information Outlet.		
6	Compatibility	Should be compatible with 24 port patch panel,RJ 11 & RJ 12		
7	Operating Cycle	Minimum 750 Insertion Cycles		
8	Standards	ETL Verified for CAT 6 Compliance		
9	Compliant	ISO 11801 Class E , EIA/TIA 568.C.2-Componnet		
10	ROHS	ROHS complaint, UL Listed		
С	24 PORT UT	P PATCH PANEL	Nos	10
1	Standards	ETL Verified and CAT 6 Component Compliance.		
2	Rear Cable Manager	Panel shall have rear cable manger with Proper design to hold all 24 cable.		
3	Material	Cold rolled steel		
4	Coating	Powder Coating		
5	Dust Cover on the I.O	To avoid dust contaminants. Spring Loaded Shutter		
6	Plastic Housing	Polycarbonate,UL 94V-0 rated		
7	Compatibility	Individually removable RJ 45 Port and compatible with STP, Fibre & Coax.		
8	Jack Contact Plating	50 Micron Gold/100 Micron Gold		
-	January I wanty			1

	110110 Compliant	Tronio compilant		
D	CAT 6 PATCH CORD	2 Mtr	Nos	210
		4 Mtr	Nos	210
		Should meet TIA/EIA 568B, ISO		
1	Standards	Category 6 Performance		
		Requirements.		
2	Jacket	Low Smoke Zero Halogen Sheath		
	Jacket	(LSZH)		
3	Boot	Transparent Boot		
4	Cable	4 Pair 24 AWG stranded copper wire		_(6
4	Cable	with star separator		0
5	Bend radius	4 X O.D	080	9
6	Operating Temperature	-20 ° C to 60° C	6	
7	Compatible	568 A & 568 B wiring		
8	Fire Propagation test	CSA FT1,IEC 60332-1,IEC61034		
9	Insertion life cycle	The patch cords will have insertion life		
9	insertion life cycle	of 750 cycles minimum		
10	Length	shall be available in different length		
10	Lengui	based on the site requirement		
11	Standards	CAT 6- TIA-568-C.2,ISO/IEC		
	Standards	11801:2002		
12	ROHS	ROHS Compliant, Should be UL		
	Kens	Listed and ETL Verified		
E	FAC	E PLATE	Nos	210
1	Туре	British Style Standard Face Plate		
	00	a) Color: White		
2	Dimensions	b) Width: 86mm		
	Diffictions	c) Height: 86mm		
3	Material	VE10ABS		
4	Compatibility	Shall be compatible with CAT 5e/CAT		
4	Compatibility	6/CAT 6A information outlets.		
5	Labelling Facility	Data voice, Fax, Video		
7	Complaint	ROHS Complaint		
8	Ports	Shall be available in 2 port and 4 port		
F	BA	СК ВОХ	Nos	210
	Tuno	The box shall be two modules with		
1	Туре	3X3 size to accept dual face plate		
2	Material	Box shall made of PVC		
3	Environmental Space	Depth shall be 50 -70 mm		
4	Accessories	All accessories required		
G	SE	ERVER	No	1
		On board Intel Core i9-9900		
	1	ı İ		i

ROHS Compliant

ROHS Compliant

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		Processor	
1	Processor	3.1GHz max 5GHz, 8 Core, 16	
		Thread Processor, TDP 65W	
2	Operating System	Windows 10 Professional	
3	Storage	1TB M.2 SSD	
4	Mamaru	16 GB DDR4-2400MHz - 2 x SO-	
4	Memory	DIMM DDR4 Slot	
5	CPU Technique	14nm	
6	L3 Cache	16MB Cache, CPU Integrated	
7	Audio Card	Integrated Sound Chip	

				(0)
8	Network Card	On-board PCI-E Ethernet & Wi-Fi		P
9	Monitor	1*27 " Monitor	6	
10	Graphic	GeForce GTX 1650 (G6)		
11	GPU : Base clock	1410 Mhz		
12	Cores	896		
13	Display connectors	1*DP 1.4, 1* HDMI		
14	Max resolution	7680 x 4320 @ 60 Hz or better		
15	Multi Monitor Support	Yes		
16	Keyboard	Wired keyboard with 104 keys		
17	Mouse	Wired Optical with USB interface	i	
18	Audio ports	1* Mic,1* SPK		
19	Cabinet	Mini/Micro form factor		
20	USB Port	4 x USB 3.0, 3 x USB 2.0		
21	Internal Ports	1xM.2, 1xSSD		
22	Max Power consumption including monitor	120 Watts		
23	Certifications	BIS,ROHS	Ì	
н	Mic	ero PC	No	210
-00		On board Intel Core I3 8145U or		
	Dragger	higher Processor with 2.1GHz , 2		
1	Processor	Core, 4 MB cache, TDP -15 Watts		
2	Operating System Compatibility	Windows 10 /Linux		
3	Storage	128 GB SSD		
4	Memory	8 GB DDR4-2667MHz - 2 x SO-		
4	Memory	DIMM DDR4 Slot		
5	Audio Card	Integrated Sound Chip		
6	Network Card	On-board PCI-E Ethernet & Wi-Fi		
7	Monitor	21.5" Monitor		
8	Graphic	Intel HD Graphics 620		
9	Back panel ports	1*HDMI, 1*VGA, 1*LAN, 1*MIC, 1*SPK		

10	Keyboard	Wired keyboard with 104 keys		
11	Mouse	Wired Optical with USB interface		
12	Audio ports	1* Mic,1* SPK		
13	USB Port	4 x USB 3.0, 2 x USB 2.0,		
14	Max Power consumption including	120 Watts		
14	monitor	120 Walls		
15	Certifications	BIS,ROHS		
16	Warranty	3 Years		
I	SWITCH		Nos	10
1	Shall be 1RU, 1	9" Rack Mountable		0
2	24 RJ-45 autosensing 10/100/100	0 ports, with a Gigabit latency of < 3.8		02
	μs (64-byte packets)		OX.	
3	The switch shall have four 1G/10-	Gigabit ports (SFP+) in addition to the	Co	
	above ports, with a 10- Gigabit latency of < 2.9 μs (64-byte packets)			
	The switch should be based o	on Programmable ASIC to deliver		
4	perfo	ormance,		
	robust feature support and progr	ammability for the latest applications		

5	1 dual-personality (RJ-45 or USB micro-B) serial console port			
6	1 GB SDRAM, 4GB Flash/eMMC, Minimum 12 MB of Packet buffer size			
7	Should have switching capacity of 128 Gbps and support at least 32,000 MAC addresses			
8	Jumbo packet support up to 9K bytes			
9	Shall support Layer 3 routing features including RIP, OSPF, OSPFv3, VRRP and PIM Multicast routing on Day 1. If any licenses are required, it shall be included			
10	Shall support concurrent IEEE 802.1X, Web, and MAC authentication schemes per port with minimum 24 authentication sessions per port			
0,	Access control lists (ACLs), MAC address based port security and			
11	lockout, DHCP protection, Dynamic ARP protection and VxLAN Encapsulation/Tunneling Protocol			
	SNMP v2c/v3, SSHv1/SSHv2 Secure Shell, RADIUS/TACACS+ for switch			
12	management security, RMON/sFlow or equivalent for advanced traffic monitoring			
13	Software defined network (SDN) capability by supporting multiple programmatic interfaces including REST APIs and OpenFlow 1.3			
	Shall have stacking capability or equivalent to extend the control plane			
14	across multiple active switches forming a single virtual switching fabric.			
	Any modules/cables required for the same shall be provided from Day 1			
l	IFFF 802 3az Energy-efficient Ethernet (FFF) sunnort to reduce nower			

15]	sumption		
16	Operating temp	perature 0°C to 45°C		
17	Warranty and Support			
		replacement, directly from the switch OEM		
	Warranty shall cover the	switch including power supply		
	Software upgrades/updates shall be covered as part of the warranty			
18	Industry Certification			_6
	The offered switch with the operating system should be Network Device Protection Profile (NDPP) Certified from Day 1. The certificate should be attached for reference		ලහි	000
J	27U FLOOI	R MOUNT RACK	Nos	1
1	Enclosure	Powder Coated (Durable and attractive Epoxy Powder coat finish)		
2	Height	27 U		
3	Width	600		
4	Depth	800		
5	Color	White / Grey		
6	Rack Standard	Conforms to DIN 41494 or equivalent standard		

		Sturdy Sheet Steel consisting of 1 mm	
	00	frame or better,	
	(0)	1 pair of 19" Mounting angles,	
	200	Front door with 0.8 mm Sheet Steel or	
16	(0)	better with toughened thick glass,	
00	,	lock & Key,	
0~		Rear steel doors – with hexagonal	
		perforations	
		Top and Bottom Cover Welded to	
7	Features	Frame,	
'	r satarss	Vented and Field Cable entry exit cut	
		outs,	
		Equipment Mounting: DIN Standard	
		Slots	
		2 Nos PDUs, with single phase power	
		supply 230V (32A) Zero U standard	
		rack mount power distribution unit with	
8	Power Sockets	12X 5/15A sockets, with power	
	1 ower cookers	cable and 2 Nos 16A MCB, The PDU	

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1		input cable should be 3 mtr.	ı	
9	Cable Manager	1U 19" Horizontal cable manager		
10	Fan	4 Nos		
11	Maximum load	850 Kgs		
12	Accessories	2 Packet of mounting hardware, Pack of 20.		
13	Warranty	1 Year		
14	Preferred Makes-	APW/Rittal/Netrack		
K		Il mount Rack	Nos	4
1	Enclosure	Powder Coated (Durable and attractive Epoxy Powder coat finish)		_6
2	Height	15 U		000
3	Width	600	080	
4	Depth	600	0	
5	Color	White / Grey		
6	Rack Standard	Conforms to DIN 41494 or equivalent standard		
		Sturdy Sheet Steel consisting of 1 mm frame or better,		
		1 pair of 19" Mounting angles,		
		Front door with 0.8 mm Sheet Steel or better with toughened thick glass,		
		lock & Key,		
	0,	Top and Bottom Cover Welded to		
		Frame,		
7	Features	Vented and Field Cable entry exit cut		
	000	outs,		
	2002	Equipment Mounting: DIN Standard Slots		

0		Socket strip 5A,19" mounted with 6		
		sockets, with spike suppressor (Fuse		
8	Power Sockets	indicator with 2-meter-long		
		cable)		
9	Cable Manager	1U 19" Horizontal cable manager		
10	Fan	2 Nos		
11	Maximum load	40Kgs		
12	Accessories	2 Packet of mounting hardware, Pack		
12	Accessories	of 20.		
13	Warranty	1 Year		
14	Preferred Makes-	APW/Rittal/Netrack		
L	COLOUR INI	K TANK PRINTER	Nos	2
L			Nos	

1	PRINT SCAN COPY	Colour Ink tank Printer		
2	Print Method	Precision Core Heat-Free Technology		
3	Maximum Print Resolution	4800 x 1200 dpi		
4	Automatic Duplex Printing	Yes,		
5	Control Panel	Colour LCD Touch Screen 2" or better		
6	Print Direction	Bi-directional printing		
7	Print Speeds	ISO 24734, A4 Simplex (Black /		
	Fillit Speeds	Colour): 15 ipm / 8 ipm		
8	Draft, A4 (Black / Colour)	35 ppm / 20 ppm		
9	ISO 24734, A4 Duplex (Black / Colour)	Up to 7.5 ipm / 5.0 ipm*2		-6
10	Сору	/ Function		(О с
11	Reduction / Enlargement	25 - 400%	~ (S)	
12	Maximum Copy Size	Legal	6	
13	Copy Resolution	600 x 600 dpi		
14	Max Copies	999 copies		
15	ISO 29183, A4 Simplex Flatbed (Black / Colour)	10.0 ipm / 5.0 ipm		
16	ISO 24735, A4 Simplex ADF (Black / Colour)	9.0 ipm / 4 ipm		
17	Sc	canning		
18	Scanner Type	Flatbed colour image scannerSensor		
19	Туре	CIS		
20	Optical Resolution	1200 x 2400 dpi		
21	Maximum Scan Area	216 x 297 mm		
22	Scanner Bit Depth (Colour)	48-bit input, 24-bit output		
23	Scanner Bit Depth (Grayscale)	16-bit input, 8-bit		
24	outputScanner Bit Depth (Black & White)	16-bit input, 1-bit output		
d	122	Flatbed (Black / Colour):		
000		200dpi: 14 sec / 28 sec		
0_		ADF Monochrome (Simplex / Duplex):		
25	Coon Chood	200dpi: 6.0 ipm		
	Scan Speed	ADF Colour (Simplex / Duplex):		
		200dpi: 5.0 ipm		
	ADE Coordinations	Support Paper Thickness:		
26	ADF Specifications	64-95 g/m2		

	Paper Capacity:	
	35 sheets (A4 Paper), 10 sheets	
	(Legal)	
	USB 2.0, Wireless IEEE 802.11b/g/n,	

Legal, Indian Legal, Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, A6, Hagaki (100 x 148 mm), 8.5 x 13", 5 x 7", 4 x 6", Legal (8.5 x 14") Envelopes: #10, DL, C6	27	Connectivity	Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6		
1	28	Paner Sizes	(195 x 270 mm), B5, A5, B6, A6,		
Cassette 1: 250 sheets of Plain Paper (80 g/m2), up to 20 sheets of Premium Glossy Photo Paper.		1 apor 0/200	1 ' ' '		
Standard Paper Input Capacity Standard Paper Input Capacity Glossy Photo Paper.	29	Number of Paper Trays	2 (Front 1, Rear 1)		
Standard Paper Input Capacity Glossy Photo Paper. Rear Slot: 1 sheet (80 g/m2) 30 sheets of Plain Paper 20 sheets of Premium Glossy Photo Paper 20 sheets of Premium Glossy Photo Paper 32 Preferred Makes- HP/Canon/Epson M MONOCHROME SINGLE FUNCTION PRINTER Nos 2 1 PRINT Monochrome Single Function Ink tank Printer 2 Print Method Precision Core Heat-Free Technology 3 Maximum Print Resolution 1200 x 2400 dpi 4 Automatic Duplex Printing Yes, 5 Print Direction Bi-directional printing Draft Text - Memo, A4 (Black) Up to 35 ppm ISO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16k (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 Print Method Precision Core Heat-Free Technology Precision			Cassette 1: 250 sheets of Plain Paper		
Rear Slot: 1 sheet (80 g/m2) 30 sheets of Plain Paper 20 sheets of Plain Paper 20 sheets of Premium Glossy Photo Paper 32 Preferred Makes-			(80 g/m2), up to 20 sheets of Premium		
30 sheets of Plain Paper 20 sheets of Premium Glossy Photo Paper 32 Preferred Makes- HP/Canon/Epson M MONOCHROME SINGLE FUNCTION PRINTER Nos 2	30	Standard Paper Input Capacity	Glossy Photo Paper.		0
31			Rear Slot: 1 sheet (80 g/m2)		MY.
Standard Paper Paper Paper			30 sheets of Plain Paper	200	
Paper	31	Output Capacity	20 sheets of Premium Glossy Photo	60	
M MONOCHROME SINGLE FUNCTION PRINTER Nos 2 1 PRINT Monochrome Single Function Ink tank Printer 2 Print Method Precision Core Heat-Free Technology 3 Maximum Print Resolution 1200 x 2400 dpi 4 Automatic Duplex Printing Yes, 5 Print Direction Bi-directional printing 0 Draft Text - Memo, A4 (Black) Up to 35 ppm 1SO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 10 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2		Output Capacity	Paper)	
PRINT	32	Preferred Makes-	HP/Canon/Epson		
PRINI	М	MONOCHROME SIN	GLE FUNCTION PRINTER	Nos	2
3 Maximum Print Resolution 1200 x 2400 dpi 4 Automatic Duplex Printing Yes, 5 Print Direction Bi-directional printing Draft Text - Memo, A4 (Black) Up to 35 ppm ISO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology 100 sheets 10	1	PRINT			
4 Automatic Duplex Printing Yes, 5 Print Direction Bi-directional printing 0 Draft Text - Memo, A4 (Black) Up to 35 ppm 1SO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec 10 USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 2 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	2	Print Method	Precision Core Heat-Free Technology		
Draft Text - Memo, A4 (Black) Up to 35 ppm	3	Maximum Print Resolution	1200 x 2400 dpi		
Draft Text - Memo, A4 (Black) Up to 35 ppm ISO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 Number of Paper Trays Standard Paper Input Capacity Standard Paper Input Capacity 10 Output Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	4	Automatic Duplex Printing	Yes,		
35 ppm ISO 24734, A4 (Black) Up to 15 ipm ISO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Nos 2 1 Print Method Precision Core Heat-Free Technology Precision Core Heat-Free Technology	5	Print Direction	Bi-directional printing		
ISO 24734, A4 (Black) Up to 15 ipm First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology 100 sheets 100 shee			Draft Text - Memo, A4 (Black) Up to		
First Page Out Time (Black) Approx. 10 sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 Number of Paper Trays Standard Paper Input Capacity Output Capacity Dutput Capacity Preferred Makes- Nos 2 PRINT SCAN COPY Monochrome Ink tank Printer Print Method Precision Core Heat-Free Technology		2	35 ppm		
To sec USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 Number of Paper Trays Standard Paper Input Capacity Standard Paper Input Capacity 10 Output Capacity 11 Output Capacity 12 Preferred Makes- N MONOCHROME MULTI FUNCTION PRINTER Nos Print Method Precision Core Heat-Free Technology		9.	ISO 24734, A4 (Black) Up to 15 ipm		
USB 2.0, Wireless IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 Number of Paper Trays Standard Paper Input Capacity Standard Paper Input Capacity Output Capacity To Standard Paper Input Capacity Preferred Makes- Nosheets Preferred Makes- HP/Canon/Epson Nosheets PRINT SCAN COPY Monochrome Ink tank Printer Print Method Precision Core Heat-Free Technology	6	Print Speeds	First Page Out Time (Black) Approx.		
7 Connectivity Wi-Fi Direct, Ethernet, TCP/IPv4, TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1		.00	10 sec		
7 Connectivity TCP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology		00,	USB 2.0, Wireless IEEE 802.11b/g/n,		
CP/IPv6 Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology Nos 1 Print Method Precision Core Heat-Free Technology Print Method Print Method Print P	7	Connectivity	Wi-Fi Direct, Ethernet, TCP/IPv4,		
8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	0_	Connectivity	TCP/IPv6		
8 Paper Sizes mm), B5, A5, B6, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	0,5		Legal, Indian-Legal (215 x 345 mm),		
148 mm) Envelopes #10, DL, C6 9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- NONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	· ·		`		
9 Number of Paper Trays 1 10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	8	Paper Sizes	'		
10 Standard Paper Input Capacity 250 sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology			<u> </u>		
10 Standard Paper Input Capacity g/m2); 10-sheets-Envelope 11 Output Capacity 100 sheets 12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	9	Number of Paper Trays			
12 Preferred Makes- HP/Canon/Epson N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	10	Standard Paper Input Capacity			
N MONOCHROME MULTI FUNCTION PRINTER Nos 2 1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	11	Output Capacity	100 sheets		
1 PRINT SCAN COPY Monochrome Ink tank Printer 2 Print Method Precision Core Heat-Free Technology	12	Preferred Makes-	HP/Canon/Epson		
2 Print Method Precision Core Heat-Free Technology	N	MONOCHROME MU	LTI FUNCTION PRINTER	Nos	2
	1	PRINT SCAN COPY	Monochrome Ink tank Printer		
3 Maximum Print Resolution 1200 x 2400 dni	2	Print Method	Precision Core Heat-Free Technology		
T200 X 2400 dpi	3	Maximum Print Resolution	1200 x 2400 dpi		

4	Automatic Duplex Printing	Yes,		
5	Control Panel	Colour LCD Touch Screen 2" or better		

6	Print Direction	Bi-directional printing		
		Draft Text - Memo, A4 (Black) 37 ppm		
		ICO 24724 A4 (Blook) Cimpley 10 in m		
		ISO 24734, A4 (Black) Simplex 18 ipm,		
7	Print Speeds	Duplex 8 ipm		
	İ	First Page Out Time (Black) Approx. 6		
	5 1 11 15 15 1	sec (simplex) / 13 sec (duplex)		-6
9	Reduction / Enlargement	25 - 400% Auto Fit Function		
10	Maximum Copy Size	Legal (ADF)	_ 20	
11	Copy Resolution	600 x 600 dpi	60	
12	Max Copies	99 copies		
13	Scanner Type	Flatbed colour image scannerSensor		
14	Туре	CIS		
15	Optical Resolution	1200 x 2400 dpi		
16	Maximum Scan Area	216 x 297 mm		
17	Scanner Bit Depth (Colour)	48-bit input, 24-bit output		
18	Scanner Bit Depth (Grayscale)	16-bit input, 8-bit		
	outputScanner Bit Depth (Black &	a. (Va)		
19	White)	16-bit input, 1-bit output		
		Flatbed (200dpi)		
	2	Monochrome 12sec		
	~ ,	Colour 27sec		
20	Soon Spood	ADF (200dpi)		
20	Scan Speed	Monochrome 7.0ipm		
	00,	Colour 7.0ipm		
	0>	Support Paper Thickness		
20		64-95 g/m2		
21	ADF Specifications	Paper Capacity		
>.	· ·	35 sheets (A4 Paper)		
		Walk-up black-and-white and colour fax		
22	Type Of Fax	capability		
		2 MB, Page memory, Up to 180 pages		
23	Receive Memory / Page Memory	(ITU-T No.1 chart)		
24	Error Correction Mode	ITU-T T.30		
25	Fax Speed (Data Transfer Rate)	Up to 33.6 kbps, Approx. 3 sec/page		
26	Fax Resolution	Up to 200 x 200 dpi		
27	Transmission Paper Size (Flatbed)	Letter, A4		
28	Transmission Paper Size (ADF)	Letter, A4, 8.5 x 13", Legal		
<u> </u>		,,, === , == 9		

29	Receiving Paper Size	Letter, A4, Legal	
30	Speed Dial / Group Dial	Up to 100 numbers, 99 groups	
		PC Fax (Transmission/Receive),	
		Automatic redial, Address book,	
31	Fax Features	Transmit Reservation, Broadcast Fax	
31	Fax Features	(Mono Only), Polling Reception, Fax	
		Preview	
		USB 2.0, Wireless IEEE 802.11b/g/n,	
32	Connectivity	Wi-Fi Direct, Ethernet, TCP/IPv4,	
32		TCP/IPv6	

Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), 85, A5, 86, A6, Hagaki (100 x 148 mm) Envelopes #10, DL, C6					
33			Legal, Indian-Legal (215 x 345 mm),	00	
148 mm) Envelopes #10, DL, C6			8.5 x 13", Letter, A4, 16K (195 x 270	60	
34	33	Paper Sizes	mm), B5, A5, B6, A6, Hagaki (100 x		
Output Capacity 100 sheets Input Capacity Cassette 1 250 Sheets- A4 / Letter Plain Paper (80 g/m2); 10- sheets-Envelope; Rear Slot 1 Sheet- A4 Plain Paper 32 Preferred Makes- HP/Canon/Epson O WHITE BOARD Nos 2 1 Color White Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet High-strength Alloy Aluminium 6063- T6 in Satin Finish Input method Marker Preferred Makes- Bry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160			148 mm) Envelopes #10, DL, C6		
Input Capacity Cassette 1 250 Sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope; Rear Slot 1 Sheet-A4 Plain Paper 32 Preferred Makes- HP/Canon/Epson O WHITE BOARD Nos 2 1 Color White 2 Usage/Application Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet High-strength Alloy Aluminium 6063-T6 in Satin Finish 5 Input method Marker Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	34	Number of Paper Trays	2		
A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope; Rear Slot 1 Sheet-A4 Plain Paper			Output Capacity 100 sheets		
35 Standard Paper Input Capacity sheets-Envelope; Rear Slot 1 Sheet-A4 Plain Paper 32 Preferred Makes-PH/Canon/Epson 0 WHITE BOARD Nos 1 Color White 2 Usage/Application Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet 4 Frame Material High-strength Alloy Aluminium 6063-Te in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes-Reputed Nos P INTERACTIVE PANELNOW Nos 1 Sub-Segment Mainstream Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160			Input Capacity Cassette 1 250 Sheets-		
A4 Plain Paper 32			A4 / Letter Plain Paper (80 g/m2); 10-		
32 Preferred Makes- HP/Canon/Epson O WHITE BOARD Nos 2 1 Color White Value 2 Usage/Application Presentation, Training & Teaching, General Display Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet 4 Frame Material High-strength Alloy Aluminium 6063- T6 in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	35	Standard Paper Input Capacity	sheets-Envelope; Rear Slot 1 Sheet-		
O WHITE BOARD Nos 2 1 Color White 2 Usage/Application Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet 4 Frame Material High-strength Alloy Aluminium 6063- T6 in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160			A4 Plain Paper		
1 Color White 2 Usage/Application Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet 4 Frame Material High-strength Alloy Aluminium 6063- T6 in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	32	Preferred Makes-	HP/Canon/Epson		
2 Usage/Application Presentation, Training & Teaching, General Display 3 Size/Dimension (minimum) Min 6 feet x 4 feet 4 Frame Material High-strength Alloy Aluminium 6063- T6 in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	0	WHIT	E BOARD	Nos	2
Teaching, General Display Size/Dimension (minimum) Min 6 feet x 4 feet High-strength Alloy Aluminium 6063- T6 in Satin Finish Input method Features Preferred Makes- PINTERACTIVE PANEL Sub-Segment Screen Size Light Source Panel Type Display Orientation Landscape Gusage (hrs/days) Resolution (pixel) Teaching, General Display Min 6 feet x 4 feet High-strength Alloy Aluminium 6063- T6 in Satin Finish Prefers Maker Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic Nos 1 Nos 1 Sub-Segment Mainstream Pips IPS IPS Jisplay Orientation Landscape High-strength Alloy Aluminium 6063- T6 in Satin Finish Marker Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic Port Electrical Panel Nos 1 Light Source Direct LED HPS Display Orientation Landscape High-strength Alloy Aluminium 6063- T6 in Satin Finish High-strength Alloy Aluminium 6063- T6 in Satin Finish Preferred Marker Nos 1 Landscape High-strength Alloy Aluminium 6063- T6 in Satin Finish High-strength Alloy Aluminium 6063- The in Satin Finish High-strength Alloy Aluminium 6063- The in Satin Finish High-strength Alloy Aluminium 6063- The in Satin Finish Frame Material High-strength Alloy Aluminium 6063- The in Satin Finish High-strength Alloy Aluminium folds and setting the sating 1	Color	White			
Teaching, General Display Size/Dimension (minimum) Min 6 feet x 4 feet High-strength Alloy Aluminium 6063- T6 in Satin Finish Input method Marker Preferred Makes- Pinteractive Panel Sub-Segment Sub-Segment Sub-Segment Light Source Panel Type Display Orientation Landscape Usage (hrs/days) Resolution (pixel) Min 6 feet x 4 feet High-strength Alloy Aluminium 6063- T6 in Satin Finish Marker Prefersed Marker Surface, Smooth, Warp-free, Flat, Magnetic Mainstream Nos 1 Preferred Makes- Reputed Nos 1 Interactive Panel Nos 1 Sub-Segment Mainstream Pirect LED IPS IPS Jisplay Orientation Landscape Usage (hrs/days) Mainstream Panel Type IPS UHD 3840 x 2160		I Isage/Application	Presentation,Training &		
4 Frame Material High-strength Alloy Aluminium 6063- T6 in Satin Finish 5 Input method Marker 6 Features Dry Erase White Marker Surface, Smooth, Warp-free,Flat,Magnetic 7 Preferred Makes- Reputed P INTERACTIVE PANEL Nos 1 1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160		Osage/Application	Teaching,General Display		
To in Satin Finish Input method Marker Preatures Preferred Makes- Interactive Panel Sub-Segment Sub-Segment Mainstream Sub-Segment Mainstream Light Source Panel Type Display Orientation Usage (hrs/days) Active Area (mm) Reputed Nos 1 To in Satin Finish Marker Dry Erase White Marker Surface, Smooth, Warp-free, Flat, Magnetic Nos 1 Nos 1 Nos 1 Light Source Direct LED Landscape Landscape Landscape 18 hrs / 7 days Active Area (mm) 1649.7 (H) x 927.9 (V) Resolution (pixel) UHD 3840 x 2160	3	Size/Dimension (minimum)	Min 6 feet x 4 feet		
T6 in Satin Finish Input method Marker Preatures Preferred Makes- INTERACTIVE PANEL Sub-Segment Screen Size Light Source Panel Type Display Orientation Landscape Usage (hrs/days) Resolution (pixel) T6 in Satin Finish Marker Marker Dry Erase White Marker Surface, Smooth, Warp-free,Flat,Magnetic Nos 1 Nos 1 Nos 1 Light Source Direct LED Landscape Landscape 18 hrs / 7 days	1	Frame Material	High-strength Alloy Aluminium 6063-		
Features Dry Erase White Marker Surface, Smooth, Warp-free,Flat,Magnetic Pereferred Makes- Reputed Nos 1 Sub-Segment Mainstream Screen Size 65" Light Source Direct LED Panel Type IPS Display Orientation Landscape Usage (hrs/days) 18 hrs / 7 days Active Area (mm) 1649.7 (H) x 927.9 (V) Resolution (pixel) UHD 3840 x 2160	4	Tame Material	T6 in Satin Finish		
Features Smooth, Warp-free,Flat,Magnetic Preferred Makes- Reputed Nos 1 Sub-Segment Screen Size Screen Size Screen Size Sight Source Fanel Type Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sight Spans Sig	5	Input method	Marker		
Smooth, Warp-free, Flat, Magnetic Perferred Makes- Reputed Nos 1 Sub-Segment Mainstream Screen Size 65" Light Source Direct LED Panel Type IPS Display Orientation Landscape Usage (hrs/days) 18 hrs / 7 days Active Area (mm) 1649.7 (H) x 927.9 (V) Resolution (pixel) UHD 3840 x 2160	6	Egaturas	Dry Erase White Marker Surface,		
P INTERACTIVE PANEL Nos 1 Sub-Segment Mainstream Screen Size 65" Light Source Direct LED Panel Type IPS Display Orientation Landscape Usage (hrs/days) 18 hrs / 7 days Active Area (mm) 1649.7 (H) x 927.9 (V) Resolution (pixel) UHD 3840 x 2160	0	i eatures	Smooth, Warp-free,Flat,Magnetic		
1 Sub-Segment Mainstream 2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	7	Preferred Makes-	Reputed		
2 Screen Size 65" 3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	Р	INTERA	CTIVE PANEL	Nos	1
3 Light Source Direct LED 4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	1	Sub-Segment	Mainstream		
4 Panel Type IPS 5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	2	Screen Size	65"		
5 Display Orientation Landscape 6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	3	Light Source	Direct LED		
6 Usage (hrs/days) 18 hrs / 7 days 7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	4	Panel Type	IPS		
7 Active Area (mm) 1649.7 (H) x 927.9 (V) 8 Resolution (pixel) UHD 3840 x 2160	5	Display Orientation	Landscape		
8 Resolution (pixel) UHD 3840 x 2160	6	Usage (hrs/days)	18 hrs / 7 days		
	7	Active Area (mm)	1649.7 (H) x 927.9 (V)		
	8	Resolution (pixel)	UHD 3840 x 2160		
9 Aspect Ratio 16:09	9	Aspect Ratio	16:09		

10	Brightness (typical) (nits; cd/m2)	350 cd/m2		
11	Contrast Ratio	1200: 1 (IPS Panel)		
12	Dynamic Contrast Ratio	30,000:1		
13	Response Time (ms)	8		
14	Pixel Pitch(mm)	0.43 (H) x 0.43 (V)		
15	Frame Rate	60Hz		
16	Viewing Angle	178 degree (H) / 178 degree (V)		
17	Light Life (typical) (hrs)	30,000		
18	Panel Surface	AG, Haze 25%		
19	Panel Bit (8 or 10)	10 bit		
20	soc	Dual core A73+Dual core A53/ 1.5GHz (HV811)	00	0
21	System Memory	4GB Minimum	00.	
22	Storage	32GB Minimum	9	
23	os	Android 8.0 or Higher		
24	Voltage	100V~240V, 50-60Hz		
25	Maximum (Watt)	240W (max.)		

26	Standby (Watt)	<0.5W	
27	Wake Up	VGA/HDMI/LAN	
28	Technology	IR	
29	Resolution (points area function)	32767 x 32767	
30	Capacity	20 points	
31	Touch Response Time (Continuous/First)	<15ms / 8ms	
32	Accuracy	±1.0mm	
33	Touch Output	2 (USB type B)	
34	OS Supported	Win 7, Win 8, Win 10 / Mac OS X10.12 /Chrome OS 58 / Ubuntu 16.04 /Fedora 28 /	
35	OS for Touch Driver Free	Win 7, Win 8, Win 10 / Mac OS X10.12 /Chrome OS 58 / Ubuntu 16.04 /Fedora 28 /	
36	Touch Pen Requirement	single-touch ≥Φ3mm and multi-touch ≥Φ6mm	
37	Tempered Glass (Thickness, Mohs scale)	4mm, 7H	
38	Operation Temp (°C)	0°C ~ 40°C	
39	Storage Temp (°C)	-20°C ~ 60°C	
40	Storage Humidity	10% ~ 90% RH Non-Condensing	
41	Operating Humidity	10% ~ 90% RH Non-Condensing	
42	Internal Speaker	16Wx2 or better	

43	Input	VGA X 1 HDMI X1 3, PC Audio Input (3.5mm) x1, RJ45 Port x1, USB (Type A) x3		
44	Output	HDMI X1, SPDIFx1, Line out (3.5mm) x1		
45	OPS slot	1		
46	Housing Material	Metal		
47	Pen Tray	1		
48	Remote Controller	1		
49	Stylus	2		
50	Ambient Light Sensor	Yes		
51	Internal Temperature Sensor	Yes		20
52	TUV certified Flicker Free	Yes	20	
53	TUV Certified Low Blue Light	Yes (to Protect Presenter Eye)	60	
54	WPS (office viewer APP)	Yes		
55	Wireless Display&mirroring app	Instashare		
56	Broadcasting Software	Yes		
57	Mounting	Suitable Trolley with or without Wheel to be provided		
58	Preferred Makes- for Display	LG/Panasonic/Benq/Samsung/Senses		
Q		ССТУ		
	SUPPLY AND INST	TALLATION OF 16 CH NVR	Nos	1
1	Storage Support	upto 64TB		
2	Channel Support	16POE 16Ch 1080p 4K Hpt265 RAID5 6 UL		

	.0,5	High decoding capability for Ultra 4K HD	
	00,	viewing and recording Up to 12 MP (4K)	
3	Recording Capability	resolution live view, preview	
0		and playback	
7.2		2 HDMI/VGA simultaneous video	
4	Video Output	outputs (the second HDMI output is	
4	video Odipul	programmable)	
5	Alarm	Supports up to 16 alarm input channels	
	Alaitii	and 6 alarm relay output channels	
		Supports sending notifications through	
6	Natification cumpert	email, FTP, and/or HTTP	
0	Notification support	UL listed	
7		Supports recording a video clip of events	
		for distribution	
		Supports uploading still images at the	
		time of the event through email and/or	
		FTP Configurable to automatically detect	

	1	and respond to motion in the		I
8		scene, alarm inputs, and network failure		
		or tampering		
		Maximum incoming and outgoing		
		bandwidth of 320 Mbps		
		Supports visual or auditory		
9	Bandwidth	notifications (a flashing light, bell, or		
		siren)		
		Supports fisheye video de-warping in		
		local and web user interface 3D PTZ		
10	Fish Eye camera support	control, 360° camera support, and		a
		intelligence events.		20
11	Preferred Makes-			
		AXIS/BOSCH/HONEYWELL/PELCO	Co"	
R	Supply and installation of	of4MP Network Bullet IR Camera	Nos	10
1	VIDEO STANDARD-	NTSC/PAL,		
2	SCANNING SYSTEM -	Progressive scan,		
3	IMAGE SENSOR	4MP(2560×1440)		
4	Micro SD/SDHC/SDXC card slot	Yes and supports upto 128 GB		
5	ILLUMINATION	Color: 0.001Lux- @f/1.6, B/W: 0Lux @f/1.6(IR on),		
6	S/N RATIO-	50 dB or more,		
7	ELECTRONIC SHUTTER SPEED-	Auto, Manual, 1/3(4)-1/10 000 s,		
8	IR DISTANCE-	30m,		
9	DAY/NIGHT	Auto(ICR)/Color/BW		
10	Approved Makes-	AXIS/BOSCH/HONEYWELL/PELCO		
S	Supply and installation o	f 4MP Network Eyeball IR Camera	Nos	2
1	VIDEO CTANDADD	NTSC/PAL, SCANNING SYSTEM -		
1	VIDEO STANDARD-	Progressive scan,		
2	IMAGE SENSOR	4MP(2560×1440)		

		,	
3	Image sensor/ size	1/2.8" 4Megapixel progressive scan CMOS,	
4	Resolution	NUMBER OF PIXELS (H×V)1920 × 1080,	
5	Features	MINIMUM User account and password protection, HTTPS, IP Filter,	
6	Audio	One way,	
7	Inbuilt Micrphone	Yes	
8	Material	Metal housing with coating TLS1.2, AES- 128/256	
9	II I UMINATION	Color: 0.001Lux- @f/1.6, B/W: 0Lux	

~	ILLOWING CHOIN	@f/1.6(IR on),		
10	S/N RATIO-	50 dB or more,		
11	Micro SD/SDHC/SDXC card slot	Yes and supports upto 128 GB		
12	ELECTRONIC SHUTTER SPEED-	Auto, Manual, 1/3(4)-1/10 000 s,		
13	IR DISTANCE-	20-30m,		
14	DAY/NIGHT	Auto(ICR)/Color/BW		
15	Approved Makes-	AXIS/BOSCH/HONEYWELL/PELCO		
Т	Supply and installati	on of 8 TB surveillance HDD	Nos	1
1	Capacity	up to 8TB , Support for up to 32 cameras per drive , AllFrame TM technology ,Up to 16 Al channels for Deep Learning analytics on Al-enabled NVRs •	38	06
2	MTBF	up to 1.5 million hours		
3	INTERFACE	SATA		
4	Speed	6 Gb/s		
5	FORM FACTOR	3.5-inch ,		
6	PERFORMANCE CLASS	7200 RPM Class ,		
7	Approved Makes-	Seagate/WD/SkyHawk		
U	Supply and installation	n of Professional LED Display	Nos	1
1	Screen Type	Commercial Professional		
2	Screen Size	43"/108cm		
3	Aspect Ratio	16:9		
4	Resolution	UHD9 3840x 2160		
5	Pannel Type	IPS		
6	Display Colour	1.07 Billion		
7	Viewing Angle	178/178		
8	Audio	20W or better		
9	Input	RF x 1, AV x 1, HDMI x 2, USB x 2,		
10	Internal Memmory/RAM	16GB/2GB or Higher		
11	OS	Android		
12	Preferred Makes-	LG/SONY/PANASONIC		
V	ACCE	SS CONTROL	Nos	2
1	Biometric	Face plus Finger		
2	RF Option	HON-FL-DB: 125kHz EM & 13.56Mhz MIFARE, MIFARE Plus,		

		DESFire/EV1, FeliCa, NFC & 2.4GHz BLE	
3	DE road roago	MIFARE/DESFire: 50 mm, EM/Felica:	
3	RF read range	30 mm, BLE: 50 mm	l

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4	LFD	Supported		
5	CPU	1.2GHz Quad Core		
6	Memory	8GB Flash + 1GB RAM or higher		
7	LCD type	2" color TFT LCD or better		
8	LCD resolution	320 x 240 or higher		
9	IR LED	8ea (940nm)		
10	Sound	24 bit Voice DSP		
11	Operating temperature	-20°C - 50°C		
12	Storage temperature	-40 °C - 70 °C		
13	Operating humidity	0% - 80%, non-condensing		
14	Storage humidity	0% - 90%, non-condensing		~ 2
15	Camera type	CMOS	- 00	60.
16	Camera resolution	720 x 480 or better	60	
17	Camera angle IR Lens:	Diagonal 58°		
10	O a wiff a set a	CE, FCC, KC, RoHS, REACH, WEEE,		
18	Certificates	BT SIG		
19	Max. User (1:1)	30000 or higher		
20	Max. Template (1:1)	900000 or higher		
21	Ethernet	10/100 Mbps, auto MDI/MDI-X		
22	RS-485	1ch Host or Slave (Selectable)		
23	Wiegand	1ch Input or Output (Selectable)		
24	TTL input	2ch Inputs		
25	Relay	1 Relay		
26	USB	USB 2.0 (Host)		
27	Power Voltage:	24 VDC, Current: Max. 2.5 A		
28	Preferred Makes-	HID/Honeywell/Any Reputed Firm		
	20			
w	SOLAR UPS		Nos	2
1	Sequence of power drawing	(Solar/Grid /Battery)		
2	Rated out put power of Integrated Online SPV UPS in KVA.	10		
3	AC to DC conversion technology (Switching medium).	MOSFET /IGBT		
4	DC to AC conversion technology (Switching medium).	MOSFET /IGBT		
5	No. of Phase (in Nos.).	1		
6	Inverter output wave form.	Pure sine wave		
7	Whether inverter MPPT based	Yes		

8	No.of MPPT (in Nos.).	2		
9	No. of string at input side of inverter (input port +ve and -ve) (hint: 1 sets contains 1 +ve and 1 - ve port)	4 set		
10	Operating Voltage Range, DC, Input	180V-320V DC		
11	Maximum input current for each MPPT (in A).	32 A		
12	Cooling medium for Integrated online SPV UPS	Intelligent fan cooling		9
13	Manual switch for disconnecting DC supply	Yes	68	
14	Integrated online SPV UPS mounting type	Floor Mount		
15	Overall Efficiency (in %).	88%		
16	Power Rating of Convertor AC in Watts	10K W		
17	Input Voltage Range AC.	300-460 V AC 3 PHASE		
18	Frequency range AC input	50Hz+/- 3%		
19	Maximum output current for single phase inverter (in A).	44A		
20	Type of Invertor Output (AC/DC)	AC		
21	Invertor Output Voltage and Power	230 V AC, 10000 W		
22	Frequency range out put	50 Hz +/-1		
23	Type of Battery.	EXIDE EL Series		
24	Minimum VAH of battery	10000 VAH		
25	3 stage battery charging (float, boost and equalize stage) for long life of the battery	Yes		
26	Warranty of Solar Photovoltaic Panels in Years	20		
27	Warranty of SPV Conversion System in Years	5		

28	Warranty of battery in Years	4	

29	Output over current protection.	Yes		
30	Output over voltage protection	Yes		
31	Short circuit protection	Yes		
32	Overload protection.	110% for 1 Minute		
33	THD (in %).	<3%		
34	Power factor at rated out put power.	0.8		
35	Inverter body material	SHEET METAL CABINET		
36	Operating temperature	0 to +40 deg. C		W. 68
37	Relative Humidity (in %).	0-90 % (non-condensing	S (S)	
38	Type of display	LED & LCD	6	
39	Display for AC Current and Voltage.	Yes		
40	Display for DC Voltage and Current.	Yes		
41	Display for Output frequency.	Yes		
42	PV Module Bundled	Yes		
43	Nos. of PV modules in an array	28		
44	PV Module rating (in Wp).	380/390/410		
45	Efficiency for PV Modules (in %)	19%		
46	Reverse polarity protection for PV modules	Yes		
47	Material of mounting structure	Galvanised steel		
48	Cable size for input side (PV Module to Inverter, DC) (in Sq. mm) / Conductor material / No. of core	As per IS:694 6 Sq. Mm / Copper / Single core		
49	Cable Length for input side (PV Module to Inverter, DC) (in m).	20-40 Mtr		
50	Cabling work at input side for each system	With PVC Conduit pipe with necessary clamps and screws		

51	Lightning Protection as per Electrical Standards.	As per Electrical Standards	
Α	ELECTRICAL WORKS		
	Supply and wiring light point using 1.5 sqmm copper wire [finolex,		

1	havells, vguard] with all special such as 6 amp modular switch [craptree, legrand, MK] base light plate, 1 controlled by one switch including labour charge	Nos.	30
2	Supply and wiring light point using 1.5 sqmm copper wire finolex, havells, vguard]with all special such as 6 amp modular switch [craptree, legrand, MK] base plate, 4 light controlled by one switch including labour charge	Nos.	20
3	Supply and wiring light point using 1.5 sqmm copper wire [finolex, havells, vguard]with all special such as 6 amp modular switch [craptree, legrand, MK] base plate, 3 light controlled by one switch including labour charge	Nos.	20
4	Supply and wiring Wall fan point using 1.5 sqmm copper wire [finolex, havells, vguard with all special such as 6 amp switch modular crptree legrand, MK] base plate, 1 fan controlled by one switch including labour charge	Nos.	20
5	Supply and wiring 6 amp 5 pin plug point using 1.5 sq mm copper wire with earth including supply and fixing 6 amp switch and 3 pin socket modular switch on suitable size base plate including labour charge.	Nos.	10
6	Supply and errection of 20 / 32 amp ac socket controlled by 20 / 32 amp modular Switch mounted on suitable boxes	Nos.	12
7	Supply and errection of 16amp sockets controlled by 16amp modular switch mounted on suitable boxes	Nos.	4
8	Supply and erection of 10nos 6A socket outlet and 1no. 6A SP switch controlling the socket outlets in independent position.	Nos.	210
9	Supply & Laying of 3R 1.5 Sqmm Insulated Copper Flexible Wire in 20/ 25 mm PVC Conduit along with all accessories clamped to wall /ceiling partitions or Concealed as per site Conditions	Mtr.	4000
10	Supply & Laying of 3 R 2.5 Sqmm Flexible Wire in 20/ 25 mm Insulated Copper 10 PVC Conduit along with all 10 accessories clamped to wall /ceiling partitions or Concealed as per site conditions	Mtr.	1400
11	Supply & Laying of 3R 4 Sqmm Copper Flexible wire in 20 Sqmm Insulated 25 mm PVC Conduit along with all accessories Mtr. Clamped to wall/ ceiling / partitions or Concealed as per site conditions	Mtr.	500
12	Supply and Erection of 2 nos. 6A Socket outlet and 2no. 6A SP Switch controlling the Socket outlets in independent positions	Nos.	20
13	Supply, erection, 32 A 4 Pole MCB housed in a suitable indoor type enclosure including all terminations, interconnections, accessories etc as required for UPS I/C	Nos.	1

14	Conductor cables of following sizes either clamped to ceiling 14 wall or concealed or laid in Mtr. 50 Earth etc. The rate shall include the cost of all accessories. 4 Core 70 sqmm size AL armored cable	Mtr.	50
15	Supply of all materials and termination of PVC insulated armoured copper / aluminium LT cables using Compression 15 glands. Copper crimped type cable lugs, cable Identification tags and including glad earthing Conductor of 16 SWG for cables of size 6/10 sqmm.	Nos.	2
16	Plate Installation, Testing Earth Supply, and Commissioning of 3.0 mtr long 40 mm dia GI Earth Pipe with funnel arrangement and 2R 25 X 3 mm Copper Flat brazed with 600 X 600 X 3 mm copper plate & bolted to the GI Pipe using SS bolts, nuts and washers etc. Copper flange & bus to be provided at top end for termination. The rate shall include excavation & refilling complete as required including heavy duty Pre Cast Cover and all associated civil works like construction of chamber and rough plastering etc as required. (UPS)	Nos.	1
17	Supply and Laying of No. 10 bare copper	Mtr.	50
18	Supply and Erection of 4 way VTPN DD MCCB DB / Incomer : 125 Amps 4 pole 18 MCCB 1 No. / Outgoing 63 A 3 Pole MCB 10 Nos., 32 A 3 pole MCB-2 Nos, 40 A 4 pole MCB -1 No	Nos.	1
19	Supply and Erection of 8way SPN DD MCB DB / Incomer: 32 Amps 2 pole 19 MCB 1 No. / Outgoing: 16/10/6 Amps MCB 6 No	Nos.	1
20	Supply and Erection of 4way TPN MCB DB (LDB) / Incomer: 32 Amps, 30 ma, 4 pole RCCB 1 No. / Outgoing 16/10/6 Amps MCB 8 No.	Nos.	1
21	Supply and Erection of 6way TPN MCB DB (PDB) / Incomer: 63 Amps,100MA4 pole RCCB 1 No. / Outgoing: 20/16/ 10 Amps MCB - 12No	Nos.	1
22	Supply & fixing of Earth bus of Sufficient lenath made out of 25 X 3 mm copper flat with 8mm holes drilled continously at an interval of 25 mm. All holes shall be fastened with SS bolts, Nuts & washers on either side.	Mtr.	2
В	INSTALLATION OF LIGHTING FIXUTRES & FANS		
	Supply Installation of the following outdoor / indoor type light fittings, including supply of all materials required for erection, all wiring, terminations and interconnections, earthing from the terminal block / ceiling rose to the light fitting / luminaire		
23	LED 40-Watt 2x2 Ceiling Panel Light 4400 LUMENS (Slim, Square, Cool White 6500k) Make - LEDLUM/LUKER	Nos.	24

24	Supply and Fixing of	led strip incuding driver.	Mtr.	200
25	12W ROUND WHITE LED PANEL RECESSED FALSE CEILING LIGHT (16.7cmX16.7cmX1. 7cm) Recessed Ceiling Lamp. Make - LEDLUM/LUKER		Nos.	60
26	```	Omm) with necessary brackets,clamps on, Bajaj, Havells)	Nos.	16
27		WHITE SLIM Recessed Ceiling Make - JM/LUKER	Nos.	48
28		Type AC, 1.5 T (LG,Whirlpool,Carrier, subishi)	Nos.	8
С	FURNITURES & FIXTURES	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
1	CHAIRS	Chairs of the size 50cm*40cm in Anjaly wood with hand rest and cushioned seating with jute cloth upholstery	Nos.	210
2	STORAGE WARDROBES	Storage Wardrobe shutters on frames in 16 mm thick BWR grade Marine plywood 2 side post formed or 4 side edge banded shutters	Sqft.	150
Y 200	מסונים ו	Providing and fixing work stations table using 16mm ISI 303 BWR grade marine plywood legs and table top both laminated with 1mm thick marino laminate post formed and with edge bands and open storage and drawer for 2 persons using capacity. Table size 56cmx 180cm Providing and fixing work stations	Nos	4
3	WORKSTATION TABLES	table using 16mm ISI 303 BWR grade marine plywood legs and table top both laminated with 1mm thick marino laminate post formed and with edge bands and open storage and drawer for 4 persons using capacity. Table size 55cmx 330cm Providing 75mm thick plywood frame	Nos	52
		partition which includes double layer		

		Providing 75mm thick plywood frame		
		partition which includess double layer		
5	WALL PARTITION	of 6 mm thick e303 BWR marine	Sqft.	510
		plywood with lamination.		
		Providing and fixing work stations		
		table using 16mm ISI 303 BWR grade		
		marine plywood legs and table top		0
		both laminated with 1mm thick marino		72
6	Registration Table	laminate post formed and with edge	Nos.	4
	_	bands and open storage and drawer	080	
		for 2 persons using capacity.	6	
		Indoor Door Wooden with Indoor		
		Marine 303 BWR marine plywood		
7	DOOR	with lamination, 90 CM wide with door	Nos.	2
		closer.	. 100.	-
		Providing and fixing work stations		
		table using 16mm ISI 303 BWR grade		
		plywood legs, table top, Side and		
		Front partition on both laminated with		
	-	1mm thick marino laminate post		
		formed and with edge bands and open		
8	Tables	storage and drawer for 4 persons	Nos.	2
	(0)			
	\sim	using capacity. Table size 56cmx 330cm		
	-00			
	(0)	Teacher console made up of 16mm		
	~2	thick ISI 303 grade Marine Plywood		
1	(0)	laminated with 1mm thick marino		
9	TEACHER CONSOLE	laminate post formed and with edge	Nos.	2
0,5		bands with storage Space. Size -		
>.		2700x450x900mm		
		Wooden platforms in 15 cms height		
		3mtrx1.3mtr length in ISI 303 grade		
10	HIGH RAISED LECTURE FLOOR	' '	Sqft.	42
		heavyhard wood frames		
D	GENERAL WORKS			
1	PLAIN CEILING	Plain ceiling with 12mm thick	Sqft.	3200
	I LAIN CLILING	Gypboard (Saint gobain).	Jqit.	5200
2	DI INIDO	Vertical Blinds for Windows. Make -	Saft	200
	BLINDS	NL	Sqft.	300
		Painting 2 Coats primer along with		
	DANITING	putty before applying exterior plastic	C-rt	4500
l २	PAINTING		Saft	l <u>4</u> 500

	1741411140	emulsion	Oqit.	
4	FLOORING	Flooring Loop pile carpet of laying and	Sqft.	3400
		fixing with gum		

General tender documents and tender schedule can be downloaded in A4 plain size paper free of cost from the web site www.etenders.kerala.gov.in

ELIGIBILITY CRITERIA

1	Bidder should be, a Company registered in India or registered Partnership / Proprietary firms	Copy of valid Registration certificates / Copy of Certificates of incorporation		
2	Cumulative Turn over including sister concern shall be a minimum of average 5 Cr. in last 4 financial years.	Attested Balance sheet proof to be attached.		
3	Should not have been blacklisted by any of the Government entities under state / central Govt.	Self-Certificate		
4	The bidder should have a registration number of 1. GST where his business is located 2. Income tax / PAN number	Copies of relevant certificates of registration		
5	The bidder should be a manufacturer / service partner of electronics related equipment.	Copies of relevant documents		
6	Should have authorization from OEM	Manufacturers Authorization Form (MAF)		
7.	Bidder should have completed at least one similar single Project not less than 1 Cr. Or Multiple Projects 1.5 Cr. in Kerala (Last Three Year)	Valid PO & Site details to be furnished along with site visit, if needed.		