

No. PLRA (BOR)/ CFO/ARCs/Budget/2023/ PUNJAB LAND RECORDS AUTHORITY BOARD OF REVENUE, PUNJAB

Dated: 6th September, 2023

To

- 1) All Service Center In charges
- 2) All Assistant Director Land Records/ Land Record Officers

4th REVISED SOPs FOR INCURRING EXPENDITURES AT ARAZI RECORD CENTERS

- 1. Please refer to captioned subject.
- 2. Board of Punjab Land Records Authority in its 22nd meeting held on 13th July, 2023 & subsequent notification No. PLRA/BN/1817 has approved amendments in PLRA-Delegation of Financial Power Regulations, 2023 for enhancement of financial powers of SCIs as recommended by Finance & Audit Committee
- 3. SCIs/Revenue Officers are directed to ensure that the expenditure is incurred according to revised SOPs and that the reports are submitted on monthly basis well in time.
- 4. For strict compliance please.

CHIEF FINANCIAL OFFICER

Punjab Land Records Authority, Lahore

CC:

- 1. Director General (Admin), PLRA
- 2. Additional Director General (Admin), PLRA
- 3. Additional Director Operations (North), PLRA
- 4. Additional Director Operations (South & Central), PLRA



PUNJAB LAND RECORDS AUTHORITY BOARD OF REVENUE, PUNJAB

Dated: 6th September, 2023

4th REVISED SOPs FOR INCURRING EXPENDITURES AT ARAZI RECORD CENTERS

Following SOPs will be observed while incurring operational expenditures at ARCs, QARCs & MARCs:

- 1. These 4th revised SOPs shall come into force with immediate effect.
- 2. According to Delegation of Financial Power Regulations 2023 of PLRA, following are the delegation of financial powers at ARCs:

Sr. No	Nature of Powers	To Whom Delegated	Extent
1	Utility Bills (Electricity & Telephone)	Service center In- charge (SCI).	Full power
Note	SCI shall exercise full powers up to the extent of concerned, prior approval from competent Author	monthly bills excluding arrears. rity in PLRA HQTR shall be rec	As far as arrears are
2	Postage & Telegraph, General Others (Cleaning material etc.)	(i) Competent Authority in PLRA HQTR(ii) Service center In-charge.	As per power defined in Schedule-I Up to Rs. 200,000/- per object head per month
3	R & M of I.T Equipment. R & M of Machinery & Equipment. R & M of Furniture & Fixture. R & M of Transport. R & M of Building (Including electrical fittings & payment to WAPDA for Transformer & meter Installation)	(i) Competent Authority in PLRA HQTR(ii) Service center In-charge.	As per power defined in Schedule-I Up to Rs. 200,000/- per object head per month
4	Stationery	(i) Competent Authority in PLRA HQTR (ii) Service center In-charge.	As per power defined in Schedule-I Up to Rs. 200,000/- per year

5	Purchase of IT Equipment (Hardware) List of allowed Items: 1. Scanners	(i) Competent Authority in PLRA HQTR	As per power defined in Schedule-I
	 CCTV Web Camera Thumb Device Networking Cables & connectors 	(ii) Service center In-charge.	Up to Rs. 200,000/- per item per year.
	 Thermal Printer UPS including batteries LAN switches Desktop Parts (RAM, HDD, Power supply, Key board etc.) 		
6	Purchase of Plant & Machinery (Only Air Conditioners)	(i) Competent Authority in PLRA HQTR (ii) Service center In-charge.	As per power defined in Schedule-I Up to Rs. 200,000/- per item per year.
7	Purchase of Furniture & Fixture List of allowed Items: 1. Chairs 2. Tables 3. Benches	(i) Competent Authority in PLRA HQTR (ii) Service center In-charge.	As per power defined in Schedule-I Up to Rs. 200,000/- per item per year.
8	Signatories of ARC's Bank Account	Service Center In-charge of Revenue Officer of concerne	

Notes:

- 1. All above financial powers shall be exercised subject to availability of the budget and funds released in ARC bank accounts.
- 2. Accounting & reporting shall be made by SCIs or any other Officer designated for such purpose as per the SOP notified by DG PLRA.
- Powers given vide Sr. no 5 to 7 above shall only be used for purchase of allowed items having prescribed specification. Specifications shall be notified with the approval of DG PLRA. (Specifications are attached below)
- 4. All payments other than petty expenses shall be made through crossed cheque.
- 5. The Petty cash limit at each ARCs shall be observed as Rs. 50,000/- and maximum limit per case for payment is Rs 10,000/-.
- 6. The Petty cash limit at each QARCs shall be observed as Rs. 25,000/- and maximum limit per case for payment is Rs 10,000/-. SCIs are bound to replenish Rs. 25,000/- to QARCs after approving their Petty Cash Reimbursement/Adjustment form and Petty Cash Advance form respectively. (Forms are attached below)
- 7. Monthly financial reporting including bank reconciliation shall be submitted in Accounts Wing of PLRA HQTR by SCI before 10th of every month.

3. Receipts in ARC Bank Account:

- a. Quarterly funds transferred from PLRA HQTRS for operational expenditures.
- b. Mutation share of ARCs/Revenue staff in computerized mutations.
- c. Profit in bank deposit.(Receipt Voucher shall be prepared on a specified format (Form-A)).

4. Operational Expenditures from ARC Bank Account:

- a. SCI & Revenue officer of ARC shall exercise their powers as mentioned at Sr. No. 2 above.
- b. SCI & Revenue officer posted in tehsil level ARC are also responsible for operational expenditures of all relevant Qanungoi ARCs/MARCs in their respected tehsil. All relevant expenses incurred by QARCs/MARCs annexed with all relevant supporting will be forwarded to SCI for approval and payment as per SOPs.
- c. For incurring any expenditure beyond the specified limits or the type of expenditure does not exist in Sr. no.2 above, case shall be forwarded to the concerned Additional Director Operation showing proper reasoning of such expenditure, who after reviewing shall put up the case for getting administrative & financial approval from the competent authority. After getting approval from competent Authority, he will share approval with SCI for proceed further for execution of the job & payment from ARC bank account accordingly.
- d. The payments shall be made after deducting all applicable Government Taxes.
- e. For making each payment, a Payment Voucher shall be prepared on a specified format (Form-B). Proper record shall be maintained at the ARC for all payments made in the shape of payment vouchers.
- f. For booking all petty expenses incurred, a Cash Payment Voucher (Form-C) shall be prepared.
- g. For booking of adjustments i.e. bank charges, withholding tax on profit etc. an adjustment voucher (Form-D) shall be prepared.
- h. SCI shall forward the case for declaration of asset as unserviceable to concerned Additional Director (Operations) after vetting of concerned Revenue Officer.
- i. Replacement will only proceed after declaration of existing asset as unserviceable.
- j. Purchase of assets as mentioned in serial number 5, 6 & 7 are subject to declaration of existing asset as unserviceable.
- k. For purchase of IT Equipment (Hardware) as mentioned at serial # 5 as stated above in point # 2, attached specifications (Specifications-IT SR. # 5) will be followed.

5. Reconciliation of ARC Bank Account & Monthly Financial Reporting:

- a. SCI shall prepare bank reconciliation statement on monthly basis.
- b. One monthly consolidated report (Form-E) shall be submitted by SCI before 10th of every month following the reporting month to Deputy Director (Field Accounting) in PLRA HQTRS by placing the said report at FTP link provided for this purpose along with report in Excel format and scanned copy of monthly bank statement of ARC bank account. DD- Field Accounting shall be intimated of the same through e-mail.

6. Maintenance of Record:

The Service Center In-charge shall keep & maintain proper record of all the reports and original vouchers in a safe manner so that the same is available at the time of audit, in this regard a register containing compete detail of payments shall be maintained.

7. Audit Mechanism:

SCIs are responsible for maintaining accounting records including vouchers and monthly bank reconciliations. SCIs are also responsible for provision of vouchers and supporting documents to Internal & External Auditors on their demand.

8. Transfer of Funds:

Funds will be transferred to ARCs on quarterly basis against the demand of ARCs submitted with the expenditure report of previous quarter.

CHIEF FINANCIAL OFFICER Punjab Land Records Authority, Lahore



	Form-A		
ARC Name	xxxxx		
Voucher Type	Bank Receipt Voucher		
Date:	xx-xx-xxxx		
Voucher No.	R(Year)(Month)(Number) Example R2023070001		
Details	xxxxx		
Instrument No.	xxxxxxxx		
Value in Figure	Rs.0		
	[

Punjab Land Records Authority

Board of Revenue, Govt. of Punjab

Value in words zero

Sr. No	Ledger	Debit	Credit	Remarks Remarks
1	Bank of Punjab			A STATE OF THE STA
2	Profit on Funds			

Total	-	

Vouchar	Prepared	him
Voucher	riebaieu	DV.

Service Center Official

Authorized & Signed by:

Service Center Incharge

Countersigned by:

Revenue Officer

Receipts

1	Receipt of Funds From Head Quarter	
2	Profit on Funds	
3	Collection of Mutation Share	
4	Recovered from FBR	
5	Other Receipt (if any)	

F	0	r	n	1	_	1
•	v			٨		,



Punjab Land Records Authority

Board of Revenue, Govt. of Punjab

Voucher Prepared by:

ARC Name	xxxx
Voucher Type	Bank Payment Voucher
Date:	xx-xx-xxxx
Voucher No.	P(Year)(Month)(Number) Example P2023070001
Vendor Name	xxxxx
Cheque No.	xxxxxxxx
Cheque Value in Figure	Rs.0
Cheque Value in words	zero

		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2010
Sr. No	Ledger	Debit	Credit	Remarks
1	Electricity	•	v	
2	GST Payable (If applicable)		<u>.</u>	
3	PST Payable (If applicable)		- 	
4	Income Tax Payable (If applicable)			
5	Bank of Punjab			
	Total	. 0.	62	

Authorized & Signed by:	Service Center Incharge
Countersigned by:	Revenue Officer

Service Center Official

LIST OF OBJECT HEADS

Sr. No.	Object Heads
1 -	Postage & Telegraph
2	Telephone & Trunk Call
3	Electricity
4	Stationery
5	General Others (Cleaning material etc.)
6	R & M of Building (including electrical fittings)
7	R & M of I.T. Equipment
8	R & M of Transport
9	R & M of Machinery & Equipment (ACs / Generators / Others)
10	R & M of Furniture & Fixtures
11	Purchase of I.T. Equipment
12	Purchase of Plant & Machinery
13	Purchase of Furniture & Fixtures
14	Bank Charges
15	Special Assignments
16	Mutation share distributed during the month
17	Cash
18	GST Payable
19	PST Payable
20	ncome Tax Payable
21 I	Recovered by FBR

Form-C	F	or	m	1-	(
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xxxxx



Punjab Land Records Authority

 Voucher Type
 Cash Payment Voucher

 Date:
 xx-xx-xxxx

 Voucher No.
 P(Year)(Month)(Number) Example C2023070001

Value in Figure Rs.0

Board of Revenue, Govt. of Punjab Value in words zero

ARC Name

Boura of Revenue, dove. of I unjub		Value	iii words	Zero	
Sr. No	Ledger	Debit	Credit	Remarks	
1	Postage & Telegraph				
2	Telephone & Trunk Call	-			
3	Electricity	en e			
4	Stationery	and the same and			
5	General Others (Cleaning material etc.)	-		- Harrison	
6	R & M of Building (including electrical fittings)	-			
7	R & M of I.T. Equipment	-			
8	R & M of Transport	-			
9	R & M of Machinery & Equipment (ACs / Generators / Others)				
10	R & M of Furniture & Fixtures		•		
11	Cash				
	Total		-		

Voucher Prepared by	Service Center Official	
Authorized & Signed by:	Service Center Incharge	:
Countersigned by:	Revenue Officer	

LIST OF OBJECT HEADS

Sr. No.	Object Heads
1	Postage & Telegraph
2	Telephone & Trunk Call
3	Electricity
4	Stationery
5	General Others (Cleaning material etc.)
6	R & M of Building (including electrical fittings)
7	R & M of I.T. Equipment
8	R & M of Transport
9	R & M of Machinery & Equipment (ACs / Generators / Others)
10	R & M of Furniture & Fixtures
	Total

Fo	rm-	D



Punjab Land Records Authority

ARC Name	xxxxx
Voucher Type	Adjustment Voucher
Date:	xx-xx-xxxx
Voucher No.	P(Year)(Month)(Number) Example A2023070001
Value in Figure	Rs.0

	Board of Revenue, Govt. of Punjab	Value	in words	zero	
Sr. No	Ledger	Debit	Credit	Remarks	
1	Bank Charges				
2	Withholding Tax				
3	Bank of Punjab				
	Total			-	

Voucher Prepared by	Service Center Official	
Authorized & Signed by:	Service Center Incharge	FOUDYUESOS A
Countersigned by:	Revenue Officer	

LIST OF OBJECT HEADS

Sr. No.	Object Heads
1	Bank Charges
2	Withholding Tax
	Total

PUNJAB LAND RECORDS AUTHORITY, BOARD OF REVENUE, PUNJAB MONTHLY REPORT ARC NAME FOR THE MONTH OF July-23

Description			OR THE M	FOR THE MONTH OF July-23	July-23							
A) Opening Balances:	Jul-23	Aug-23	Sep-23	0ct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
Opening Balance of Operational Funds (Cash + Bank)	4	,										
Opening Balance of Special Assignment Funds			1									
Opening Balance of ARC Staff Mutation Share			,									
Opening Balance of MARC Mutation Share												
Opening Balance of DMM Mutation Share	•		٠									
Total Opening Balance Mutation share		1	ô	ī			7				,	
Opening Balance of FBR recovery		'							ı			
Total of Opening Balances Ry Describes		4			,		9					
b) acceptus. Funds Received during the month for Obsertional Evenandiums												
Profit on bank derived during the mouth	,							•			,	
Collection Description of Description	,			,				-			-	
Other Needin (It air)					,	-						
Futus Necelved during the month for Special Assignment Expenditures						٠	,		-	•		
Conception of Arch Mutation Share during the month	-		1									
Collection of DAMA Materian Share during the month				,					1			
Total Collection of Mutation share			,									
Recovered from FBR		,	ii		ě.			ir.	,	•		
Total Receipts during the month			Б 3			•			7	7	2	,
C) Payments:									,		r.	
e & Telegraph												
Telephone & Trunk Call											•	
Electricity											1	
Stationery												
General Others (Cleaning material etc.)		,										
R & M of Building (including electrical fittings)			1									
R & M of LT. Equipment												'
R & M of Transport						-					,	
R & M of Machinery & Equipment (ACs / Generators / Others)						,						
R & M of Furniture & Fixtures	-								,			
Purchase of LT. Equipment												
Purchase of Plant & Maclinery												
Purchase of Furniture & Fixtures												
Bank Charges							,					
Withholding Tax		-						,				
Special Assignments		-				1,					,	
ARC Mutation share distributed during the month							,					
MARC Mutation share distributed during the month		31				,			,			
DMM Mutation share distributed during the month			-				-				,	
Total Mutation share distributed during month	8	*							,		,	
Recovered by FBR	2			6		E						,
Total Payments during the month				*				Y	1			,
U) Crosing Balances:												
Cosnig Datance of Operational Funds (Lash + Dank)	,	-		,		1	,	,	ř.		,	5
Closing Balance of Septial Assignment Funds	1		2			,		,		,		,
CHOSING Balance of ARC Mutaton Share	,			*		,	,			,	1	
Crosing Balance of MARC Mutatron Share		3	,	,				,	,			
Closing Balance of DMM Mutation Share				,			7					
Cleano Relation of FRP recesses			*				,	,	,		7.	
Chashig palatice of PDN (cover)	1				*	ř.				,	, d.	
E) Petry Cash in Hand at the end of month	-				-	-				·		2
F) Unperwrited Chemics		92 (4)						-		1		
C) Clasing Balance as nor Root Statement						1		36				
c) Until Balance as per bank Matement			*						3	,	7.1	*
											The state of the s	

Signature & Stamp

Signature & Stamp Service Center Incharge

PLRA QANUNGOI ARAZI RECORD **CENTRE** Petty Cash Advance Form Requisition No. Date: Requisitionist Name: Designation: Department: **Particulars** Purpose: Amount = (Rs.25000 - Previous month's expense adjusted) Signature of Requisitionist: Signature of Reporting Officer: Remarks / Signature Approval **Concerned ARC Service** Centre Incharge/LRO **Conditions** 1 - I acknowledge that I have no argument with the said amount which were incurred by myself and for which I am solely responsible. 2 - It shall be my responsibility to provide the amount back or make appropriate adjustments to the authority at the agreed date. ${\tt 3-I\,acknowledge\,that\,the\,said\,amount\,shall\,be\,deducted\,from\,my\,salary\,on\,the\,directions\,of\,Chief\,Financial}$ Officer, If I am unable to appropriate $\!\!\!\!/$ account for the amount received at agreed date. **Amount Received:** Name of Receiver: **CASH** RECEIVING Designation of Receiver: Signature of Receiver:

PLRA QANUNGOI ARAZI RECORD **CENTRE** Petty Cash Reimbursement / Adjustment Form Requisition No. Date: Employee Name: Designation: Department: Expense Description: Amount (Rs.) Signature of Requisitionist: Signature of Reporting Officer: Remarks/ Signature **Concerned ARC Service** Centre Incharge/LRO **Adjustment of Advance Reimbursement of Expenses** Advance Payment Voucher No. **Amount Received** Voucher Date: Name of Receiver: Amount of Advance Payment: Designation of Receiver: Expense Amount Sanctioned: Outstanding Balance: Signature of Receiver:

SPECIFICATIONS FOR

PURCHASE OF IT EQUIPMENT (HARDWARE) BY ARCs AS PER SERIAL NO.5 OF SCHEDULE-II OF FINANCIAL POWERS DELEGATED AT ARCs.

<u>SPECIFICATIONS OF IT EQUIPMENT (HARDWARE) AS PER SERIAL NO. 5 OF</u> <u>SCHEDULE-II OF DELEGATIONS OF FINANCIAL POWERS REGULATIONS 2023.</u>

1. SCANNER

1650. 3	Scanners	Technical Specifications
Sr.	Item	Description
1.	Scanner Type	Flatbed with ADF Functionality
2.	Hardware Scan Resolution	Up to 600x600 dpi or Higher
3.	ADF Function	ADF Speed 40ppm@ 300 dpi or above on Black, Grey and Color
4.	Bit Depth	24 bit
5.	Daily Duty Cycle	Minimum 5,500 pages
6.	Min Scan Size Flatbed & ADF	Minimum 8.5 x 14(legal) for both ADF and flatbed
7.	Scan file format	JPEG, TIFF, PDF
8.	Connectivity	USB 2.0
9.	Software	Scanning / Utility Software, With OCR capability
10.	Accessories	USB Cables, Power Cables / Power Adopter
11.	Compatible OS	Windows-7,8,10
12.	Warranty	1 Years Standard, On Site

2. CCTV CAMERAS

	Technical specifications Supply and Installation of IP Cameras IP Cameras (In-door)				
Sr. #	Description				
1.	4MP Dome				
2.	H.265+				
3.	SD Card Supported				
4.	Wide Angle Fixed Length with manual Pan and Tilt Provision				
5.	120db WDR				
6.	Dual Stream				
7.	$0.01 \sim 0.03 \text{ Lux}$				
8.	WDR/BLC				
9.	ICR /3D DNR				
10.	ROI				
11	PoE, IP 66 / IP67				
12	IR Range: Minimum 30m				
13	ONVIF, CGI, ISAPI, PSIA etc.				
TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, R					
14	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour				
15	20fps(2688×1520), 25fps(1920×1080), 25fps(1280×720)				
16	Compatible with Existing NVR Brand (Huawei, Dahua, Hikvision)				
17	Warranty 1 Year				

	Technical specifications IP Cameras (Out-door)		
Sr. #	Description Description		
1.	4MP Bullet		
2.	H.265+		
3.	SD Card Supported		
4.	Wide Angle Fixed Length with 2.8mm lens		
5.	120db WDR		
6.	Dual Stream		
7.	$0.01 \sim 0.03 \text{ Lux}$		
8.	WDR/BLC		
9.	ICR /3D DNR		
10.	ROI		
11	PoE, IP67, IK 10		
12	IR Range: Minimum 30m		
13	ONVIF, CGI, ISAPI, PSIA etc.		
14	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour		
15	20fps (2688×1520), 25fps(1920×1080), 25fps(1280×720)		
16	Compatible with Existing NVR Brand (Huawei, Dahua, Hikvision)		
17	Warranty 1 year		

	Technical specifications Network Video Recorder		
Sr#			
1.	16 Channel NVR or Higher		
2.	2x 4TB Surveillance SATA Hard Drives installed, Support for 4 SATA interface		
3.	Software Screen Splitting Support 1/4/8/9/16 etc.		
4.	H.265+, H265 codec decoding		
5.	Minimum Incoming & out coming Bandwidth: 160Mbps		
6.	HDMI/VGA simultaneous video output		
7.	Support ANR technology to enhance the storage reliability in case of network break down		
8.	Third Party Support Arecont Vision, AXIS, Bosch, Brickcom, dahua, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more		
9.	Protocols Support: Onvif 2.4 & CGI		
10.	OSD Camera Title, Time, Recording etc.		
11.	Ports: 2x Gig Ethernet, 1x VGA, 2x USB		
12.	Warranty 1 Year		

	Technical specifications POE Switch		
Sr#	Description		
1.	Cisco or equivalent		
2.	24x 10/100 POE web managed switch with 2x Gig uplink of Ethernet		
Must support Surveillance and Unified Communication Solutions. POE+ Switch must support and bear load of 2x Cisco IP Phones (CP8845 & 7811) and 10x IP Cameras.			

4. Warranty 1 Year

3. WEB CAMERAS

	Web Cameras	Technical Specifications
Sr.	Item	Description
1.	Resolution	480P,640 x 480 pixels or higher
2.	Lens type	Coating Lens
3.	Viewing angle	52 degrees
4.	Focus type	Fixed focus
5.	Focus range	60cm and beyond
6.	Built-in Mic	Single Mic
7.	Output format	MJPEG
8.	Frame rate	30fps
9.	USB	USB 2.0
10.	Compatible with	Windows 7 /8/ 8.1/10 or later
11.	Warranty	1 year, Item replacement warranty

4. THUMB DEVICE

D	Thumb Devices pigital Persona U.are.U 4500	Technical Specifications	
Sr.	Item	Description	
1.	Scanner Type	Finger Print Reader	
2.	Connection	USB 2.0 or better	
3.	Optical Resolution	512 ppi	
4.	Scan Capture Area	14.6 mm x 18.1 mm	
5.	Maximum Gray Depth	8bit (256 Gray Level)	
6.	Form Factor	Portable, Desktop	
7.	Operating System	Windows-7, Server 2008, Windows 10	
8.	Warranty	1 Years, Item replacement Warranty	

5. <u>NETWORKING CABLES & CONNECTORS</u>

		Technical Specifications LAN Cables	
Sr.	Item	Description	

1.	LAN CAT 6 Cable	Cat 6 UTP /STP 23AWG 3M, Molex, Schneider, or Equivalent. 4 Pairs Unshielded Twisted Pair (UTP) Cable, • Conductor Metal: Solid Bare Copper • Color Code: Gray, • Conductor Diameter: 0.560mm Nominal, 23 AWG • Insulation Diameter: 0.970mm Nominal, Insulation Material: HD-PE • Jacket Material: PVC UL94V-0/LSZH, • Cable Diameter: 6mm Nominal • PE Central Cross separator, Approved & Certification Verified compliant with TIA/EIA-568C.2, standards by ETL, • CUL listed, • RoH etc or equivalent Payment will be made as per actual usage	As per actual
2.	Tagging	Tagging of I/O, Patch Panel ports, and Cables. (All Ends)	As per actual
3.	Face Plates & Back Boxes	Dual Toolless I/O, Shuttered Face Plates, 3M, Molex, Schneider or Equivalent, with Back Boxes Plastic Dual Faceplate Accepts Two Keystone Jacks with Shutter & ID Plate- 86*86 mm - White Colour - Square	As per actual
4.	I/O	Toolless CAT6 I/O (3M, Molex, Schneider or equivalent), RJ45 Jack: Housing: PC, UL 94V-0, with optional color Contact, RJ45 Jack Contact: Material: Phosphor Bronze with Nickel Plated, Jack: 750 cycle min (ISO/IEC 11801, IEC 60603-7-4), IDC: suitable for 22-26 AWG stranded and solid wire, The Cat6 transmission performance is in compliance with the ANSI/TIA/EIA 568 C.2 standard	As per actual
5.	Patch Cord	3Meter (3M, Schneider, Molex or equivalent), 4 Pairs Unshielded Twisted Pair (UTP) LSZH Cable, • Conductor Metal: Bare Copper, Gold plated: 50U", Temperature range: -10 ~ 80oC, 550 MHz Broadband Video, Dielectric withstanding voltage: 500V AC • Insulation resistance: 35M Ohm (max.), Verified compliant with TIA/EIA-568C.2 standards by ETL, CUL listed, RoHs	As per actual
6.	Patch Cord	1 Meter (3M, Schneider, Molex or equivalent), 4 Pairs Unshielded Twisted Pair (UTP) LSZH Cable, • Conductor Metal: Bare Copper, Gold plated: 50U", Temperature range: -10 ~ 80oC, 550 MHz Broadband Video, Dielectric withstanding voltage: 500V AC • Insulation resistance: 35M Ohm (max.), Verified compliant with TIA/EIA-568C.2 standards by ETL, CUL listed, RoHs	As per actual
7.	Ducting[1] & PVC Pipes	Dura Duct Adamjee (or equivalent) Payment will be made as per actual usage 16 x 25,	As per actual

		16x38, 40x40 PVC Pipes (Popular, Adamjee or equivalent) 1" 1.5" 2"	
8.	Patch Panel	16x Ports patch panel loaded (3M, Molex, Schneider or equivalent)	As per actual
9.	Installation	All services mentioned in related services Payment will be made as per actual length of cable	As per actual

6. THERMAL PRINTER

	Thermal Printer	Technical Specifications
Sr.	Item	Description
1	Technology	Direct Thermal
2	Paper Width	58/80mm
3	Resolution	203dpi
4	Barcode	PDF417, QR Code
5	Interfaces	USB, Ethernet
6	Environment	Must be rugged enough and can operate in dusty environments and between 5 degree-40 Degree temperature conditions
7	Power adopter	100-240v, 50-60 Hz, external power supply (supplied) or 24V DC
8	Warranty	1 year
9	Software	Windows
10	Emulation	ESC/POS
11	SDK	Windows, Android

7. <u>UPS INCLUDING BATTEIES</u>

	UPS (1 KVA)	Technical Specifications
Sr.	Item	Description
1.	Output power capacity	600Watts / 1000VA
2.	Nominal Output Voltage	230V
3.	Output Frequency (not synced)	50/60 Hz +/-1 Hz
4.	Topology	Line Interactive
5.	Waveform type	Stepped approximation to a sinewave
6.	Transfer Time	6ms typical: 10ms maximum
7.	Nominal Input Voltage	230V
8.	Automatic Voltage Regulation	Yes
9.	Input Voltage Range	170V-280V
10.	Input frequency	50/60 Hz +/- 5 Hz (auto sensing)
11.	Input Connections	IEC 320 C14

12.	Battery type:	Maintenance-free sealed Lead-Acid battery
13.	Intelligent off Mode	Yes
	Charging	
14.	Recharge Time	6-8 Hours
15.	Control panel	LED Status display with On Line: On Battery
16.	Audible Alarm	Alarm when on battery: distinctive low battery
		alarm: overload continuous tone alarm
17.	Cold Start Capability	Required
18.	Warranty	3 Years Including BATTERIES, , On Site
19.	RoHS	Compliant
20.	Approvals	CE/FCC
21.	Battery Safety	Battery Disconnector
22.	Power Cables	4 Output Power Cables (Male Female Extensions)
		Additional
23.	Back Up Time @ 50% load	Minimum 5 Minutes
24.	Output Connections	4 universal receptacle or Better

8. <u>LAN SWITCHES</u>

LAN Switch (Web-managed)		Technical Specifications	
Sr. No.	Item	Description	
1.	Form Factor	Rack Mounted 1U	
2.	Ports	24-RJ 45 auto sensing full duplex	
3.	Cabling Type	UTP/STP CAT5 or better	
4.	Protocol	CSMA/CD	
5.	Network Media	support 10/100/1000BASE-T Port Densities	
6.	Standards	IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3ad Port Trunk IEEE 802.1p QoS IEEE 802.1Q VLAN Tag	
7.	Switch Fabric / Throughput	48Gbps forwarding capacity or higher	
8.	Connectivity	Auto-MDI/MDIX	
9.	Indicators	Suitable LED's for each port and Power	
10.	Support	One Year Warranty	

9. DESKTOP PARTS (RAM, HDD, POWER SUPPLY, KEYBOARD ETC.)

SSD Hard disk		Technical Specifications	
Sr.	Item	Description	
1.	Brand	Transcend/Kingston/WD/Samsung/Toshiba	
2.	Type	M.2	
3.	Bus Interface	NVMe PCIe	
4.	Capacity	256 GB or Higher	
5.	Performance Read/ Write	1000/1000 MB/s or Higher	
6.	Compatible	Dell OptiPlex 5050	
7.	Warranty	1 Year	

RAM		Technical specifications RAM
1	Brand	Transcend/Kingston/WD/Samsung/Toshiba
2	Type	DDR4
3.	Memory Module	4 GB
4.	Memory	1 X 4 GB
	Configuration	0.00
5.	Memory Speed	2400 MHz or Better
6.	Compatible	Dell OptiPlex 5050 (intel Core i5-7500 Processor)
7.	Warranty	1 Year
Note:	During inspection b	oth SSD & RAM will be first installed & tested on Desktop
	Computer and only after successful working will be accepted.	

	k distant	Keyboard, Mouse, Power Supply
1	Brand	Same Brand as Desktop

	SSD Hard disk	Technical Specifications
Sr.	Item	Description
1.	Brand	Transcend/Kingston/WD/Samsung/Toshiba
2.	Type	M.2
3.	Bus Interface	NVMe PCIe
4.	Capacity	256 GB or Higher
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7.	Warranty	1 Year

	RAM	Technical specifications RAM
1	Brand	Transcend/Kingston/WD/Samsung/Toshiba
2	Type	DDR4
3.	Memory Module	4 GB
4.	Memory	1 X 4 GB
	Configuration	
5.	Memory Speed	2400 MHz or Better
6.	Compatible	Dell OptiPlex 5050 (intel Core i5-7500 Processor)
7.	Warranty	1 Year
Note:	During inspection both SSD & RAM will be first installed & tested on	
	DesktopComputer and only after successful working will be accepted.	

	Keyboard, Mouse, Power Supply	
1	Brand	Same Brand as Desktop