

Government of Punjab
Department of Governance Reforms and Public Grievances

CORRIGENDUM - 3

Reference Number: DGRPG/SplAsst/2023/01

Dated: 19/01/2023

RFP for Selection of Agency/ies for Supply, Installation and Commissioning of various Hardware Items including All in One Computers/ Multifunctional Printers/ LED Screens/ UPS/ VC Set Up/ L2 and L3 Switches/ Desktop with webcams/ Desktop Computers.

The following amendments are made in the respective RFP on the basis of queries received from the prospective bidders during the pre-bid meeting held on 12/01/2023 and subsequent written submissions:

Clause No	Page No.	Original Clause	Revised Clause
Fact Sheet	Pg. 7	6. Last date of submission of bid	6. <u>Last date of submission of Bid</u>
		30th January 2023, 5:00PM	<u>2nd February 2023 before 5:00PM</u>
		7. Date and time of opening of pre-qualification bids	7. <u>Date and time of opening of pre-qualification bids</u>
		31st January 2023, 11:00AM	<u>3rd February 2023 at 11:00AM</u>
Clause 5.11 Eligibility Criteria	Pg. 30-35	Eligibility Criteria	Please refer Eligibility Criteria defined at Annexure -A The Compliance Sheet for Eligibility Criteria at Page 44 shall also be considered as per updated Eligibility Criteria defined in this Corrigendum.
Clause 9 Payment Terms	Pg. 37	Payment Terms	Please refer Payment Terms section defined at Annexure -B
Clause 12 Appendix -II- Bill of Quantity and Specifications	Pg. 62	Bill of Quantity and Specifications	Please refer Bill of Quantity and Specifications section defined at Annexure -C

<p>Clause 12.2</p> <p>Location Wise Item Quantities To Be Delivered</p>	<p>Pg. 89</p>	<p>Location Wise Item Quantities To Be Delivered</p>	<p>Please refer Location wise item quantities to be delivered at Annexure-E</p>
<p>General</p>			<p>Authorized district official/ District Nodal Officer in the RFP to be read as Authorized Nodal officer (District / Headquarter official)</p>

Eligibility Criteria

Purchaser shall evaluate the Bids with respect to the minimum eligibility criteria as tabulated below. Bids not conforming to any of the minimum eligibility criteria shall be outrightly rejected. Purchaser may ask Bidder(s) for additional information to verify claims made in their eligibility document, at any point of time before opening of the financial bid.

S. No.	Eligibility Criteria	Supporting documents																
1.	Bidder should be either: <ul style="list-style-type: none"> • A company registered under the Indian Companies Act, 2013 / 1956 OR • A partnership firm registered under the Limited Liability Partnerships (LLP) Act, 2008 OR • A partnership firm registered under the Indian Partnership Act, 1932 	Any relevant document to prove that the Bidder is a legal entity like Certificate of Incorporation, Certificate of Registration, Partnership deed, etc.																
2.	The Bidder must have valid PAN and valid GST number.	<ul style="list-style-type: none"> • Copy of PAN and GST 																
3.	Minimum Average Annual Turnover in any three of the last 4 Financial Years i.e. 2018-19, 2019-20, 2020-21 and 2021-22 of the Bidder should not be less than as mentioned in item category wise table below: <table border="1" data-bbox="327 1258 949 1993"> <thead> <tr> <th>Item Category</th> <th>Minimum Average Annual Turnover in last three FY's</th> </tr> </thead> <tbody> <tr> <td>A. All in One Computers</td> <td>150 Crores</td> </tr> <tr> <td>B. All in One Printer</td> <td>15 Crore</td> </tr> <tr> <td>C. LED Screen</td> <td>15 Crore</td> </tr> <tr> <td>D. UPS</td> <td>15 Crore</td> </tr> <tr> <td>E. Switch L2</td> <td>5 Crore</td> </tr> <tr> <td>F. Switch L3</td> <td>5 Crore</td> </tr> <tr> <td>G. Video Conference Setup with LED</td> <td>35 Crore</td> </tr> </tbody> </table>	Item Category	Minimum Average Annual Turnover in last three FY's	A. All in One Computers	150 Crores	B. All in One Printer	15 Crore	C. LED Screen	15 Crore	D. UPS	15 Crore	E. Switch L2	5 Crore	F. Switch L3	5 Crore	G. Video Conference Setup with LED	35 Crore	Audited Financial Statements with <ul style="list-style-type: none"> • Certificate from statutory auditors/CA clearly certifying the turnover requirements AND UDIN as per format given in Form 4 of Appendix-I.
Item Category	Minimum Average Annual Turnover in last three FY's																	
A. All in One Computers	150 Crores																	
B. All in One Printer	15 Crore																	
C. LED Screen	15 Crore																	
D. UPS	15 Crore																	
E. Switch L2	5 Crore																	
F. Switch L3	5 Crore																	
G. Video Conference Setup with LED	35 Crore																	

S. No.	Eligibility Criteria	Supporting documents				
	<table border="1" data-bbox="325 174 949 327"> <tr> <td data-bbox="325 174 636 271">H. Desktop with USB Web Camera</td> <td data-bbox="636 174 949 271">65 Crore</td> </tr> <tr> <td data-bbox="325 271 636 327">I. Desktop</td> <td data-bbox="636 271 949 327">20 Crore</td> </tr> </table> <p data-bbox="325 383 949 551">Note: Turnover of only the bidding entity shall be considered. Turnover of any parent, subsidiary, associated or other related entity shall not be considered.</p> <p data-bbox="325 607 949 902"><u>In case bidder is applying for multiple categories, Turnover compliance needs to be matched for all the line items in which bid is placed; however, it doesn't mean that turnover per line item to be complied in case bidder wants to participate in all the bids.</u></p> <p data-bbox="325 958 949 1261"><u>Examples:</u> <u>Case 1: If bidder has an annual average turnover of 150 Crore for 3 years and wants to participate in category A,H and I, he shall be allowed to participate in all three with the same average annual turnover.</u></p> <p data-bbox="325 1317 949 1619"><u>Case 2: In case bidder has an average annual turnover of 65 Crore in the last years and wants to bid for Category A, H and I, he shall only be allowed to participate for Category H and I and his bid for Category A shall be considered as rejected.</u></p>	H. Desktop with USB Web Camera	65 Crore	I. Desktop	20 Crore	
H. Desktop with USB Web Camera	65 Crore					
I. Desktop	20 Crore					
4.	The Bidder should have positive net worth and should be a profit making company for each of the last three audited financial years for which average annual turnover shall be evaluated.	Certificate duly signed by statutory auditor/ CA of the Bidder confirming the net-worth				
5.	Bidder must have successfully executed / completed at least: One single order of 80% of the Item Category	Filled in Form 5 of Appendix-I WITH • <u>Completion certificates</u>				

S. No.	Eligibility Criteria	Supporting documents
	<p>Quantity defined in the RFP respective to item for which Bid has been submitted</p> <p>OR</p> <p>2 orders each of 60% of the Item Category Quantity defined in the RFP respective to item for which Bid has been submitted</p> <p>OR</p> <p>3 orders each of 40 % of the Item Category Quantity defined in the RFP respective to item for which Bid has been submitted (in last seven Financial Years i.e. FY 2015-16, 2016-17, 2017-18, 18-19, 19-20, 20-21, 21-22 for any Central / State Govt. Organization/ PSU/ Boards/ Corporations/ Societies/ Statutory Bodies/ Public Listed Company)</p>	<p><u>from the client; OR</u></p> <ul style="list-style-type: none"> • <u>Work order + Self certificate of completion (Certified by the statutory auditor); OR</u> • <u>Work Order + Phase Completion Certificate from the client</u> <p>confirming year, quantity and area of activity</p>
6.	<p>The Bidder should have either their own office in Punjab/Chandigarh/<u>Panchkula</u> or through having Channel partners/ Franchises/ Support centre etc. to provide after sales support services in the district of Punjab. Bidder should provide details of offices on company letterhead.</p>	<p>Details of Offices/ Channel Partners/ Franchisees as per format given in Form 6 of Appendix-I.</p>
7.	<p>Bidder should provide a mechanism to log the complaints like Phone Number OR Portal OR Whatsaap Chatbot OR any other for after sales support services.</p>	<p>Documentary proof</p>
8.	<p>The Bidder shall submit the self-certificate that the Bidder: -</p> <p>a. Has not been ever under a declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted/debarred by any State Govt./Central Govt./Board, Corporations and Government Societies / PSU for any reason.</p> <p>b. Has not been ever insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by court or judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing</p>	<p>Self-Certified letter as per format given in Form 7 of Appendix-I.</p>

S. No.	Eligibility Criteria	Supporting documents
	<p>reasons.</p> <p>c. And their directors, partners and officers have not been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications within a period of three years as on date of submission of bid or not have been otherwise disqualified pursuant to debarment proceedings.</p>	
9.	Bidder should provide Escalation Matrix.	As per format given in Form 8 of Appendix-I.
10.	Bidder should provide Undertaking that the product quoted will not reach End of Support (In next 5 years).	As per format given in Form 9 of Appendix-I.
11.	The Bidder should be an Original Equipment Manufacturer (OEM) or their authorized wholesale dealer/ re-seller/ distributor.	<p>In case of OEM, self-declaration on company letter head and duly signed by authorized signatory to be submitted.</p> <p>In case of an authorized wholesale dealer/ re-seller/ distributor, a letter of authorization (MAF) from Original Manufacturer must be furnished in original duly signed & stamped.</p> <p>MAF should include a clause that OEM will provide support services during warranty period if the Bidder authorized by them fails to perform or deliver the hardware items within the stipulated time period as defined in this RFP.</p> <p>Note: MAF should be specific to this bid only.</p>
12.	The Bidder must ensure to deposit the Tender Fees and EMD (No Exemption for any category)	Copy of Acknowledgement Receipt generated towards Tender Fees and EMD deposited.

S. No.	Eligibility Criteria	Supporting documents
13.	Scanned copy of this RFP document, corrigendum (if any), clarification issued by DGR & PG, duly signed and stamp on each page by the authorized signatory of the Bidder as a mark of acceptance of all conditions of this RFP.	Signed and stamped copy of the RFP by the authorized signatory.
14.	Any other document(s) mentioned in section 5.8.3 (f)	Any other document(s) mentioned in section 5.8.3 (f)
15.	The signatory signing the bid on behalf of the Bidder should be duly authorized by the Board of Directors / Partners of the Bidder to sign the bid on their behalf.	Authorization letter Format attached at Form 12 of Appendix I
16.	<p>The bidder needs to submit the make and model of the product he is quoting in the bid along with the quantity he shall be able to provide with respect to the make and model he quotes.</p> <p>Note: In case of category A,D,H and I as specified in this RFP document, bidder can submit make and model for maximum 3 products from same or different OEM's.</p>	<p><u>Format attached at Form 13 of Appendix I. Please refer Annexure D</u></p>

Delivery & Payment Terms

Delivery Terms

- 1. Bidder is allowed to make delivery of hardware item(s) against the work order as complete delivery in one go OR delivery in parts.**
- 2. The partial delivery will be accepted only if the delivered quantity of particular item is at-least 25% of the total ordered quantity of that item (to that bidder).**
- 3. The delivery in a particular location, as per list in section 12.2 of this RFP document dated 6th January 2023, shall be completed in single go. Partial delivery at particular location shall not qualify for part invoice of that item (ordered to the bidder) and shall not be accepted.**

Payment Terms:

The bidder is allowed to raise invoices as per below conditions and meeting the delivery terms:

- a. 90% of the delivered hardware order value along with GST and other applicable duties on actual basis will be paid on delivery and acceptance of accepted delivery at respective location, after realizing penalty charges for late delivery, if any. The claim for payment should contain proof of delivery & User Acceptance (Delivery Form) signed by an authorized Nodal Officer (district official/ Headquarter Officer)**
- b. 10% of the order value (i.e. the residual amount) will be paid after completion of installation of the accepted delivery at respective location and submission of proof of installation note & User Acceptance (for installation & Commissioning) signed by an authorized Nodal Officer (district official/ Headquarter Officer), after realizing penalty charges for late / failed installation, if any.**

Note: There shall be maximum four invoices for Delivery and four for installation for any item ordered to selected bidder.

12.1 Bill of Quantity and Specifications

The minimum list of Bill of Quantities (BOQ) along with specifications is tabulated below. The Bidders shall ensure and provide all necessary infrastructures (any additional equipment, features, quantities, etc.) required for successful installation of required hardware items by DGR & PG at the prescribed locations.

Item Category		Item Name	Quantity Required
A		All in One Computer	3474
S. No.	Feature	Minimum Specifications	
1.	Form factor	All in one	
2.	Processor	<u>Intel® Core i7 12th Generation or AMD equivalent (i.e., Ryzen™ 7 5000 Series) or higher</u>	
3.	Chipset	<u>Compatible Intel/AMD chipset</u>	
4.	Motherboard	OEM certified OEM Motherboard with onboard/discrete Graphics sound card and Ethernet port or equivalent	
5.	Memory (RAM)	8 GB DDR4 3200 MHz or higher with at least two DIMM slots	
		<u>Minimum</u> Expandable up to 32 GB	
6.	Ports	Minimum 4 USB Ports with at least 2 USB 3.1 Gen 1 or higher; 2 USB 2.0 <u>or higher</u>	
		1x Type-C	
		1 Microphone/Headphone Combo Jack	
		1 x HDMI out	
		1 x RJ45	
7.	Storage Disk	256 GB SSD	
		1 TB 7200 RPM SATA HDD	
8.	Graphics	<u>Integrated Graphics</u>	
9.	Display	<u>21.5 inch or higher anti-glare LED-backlit or higher</u>	
		Resolution - FHD (1920 x 1080p) widescreen	
		Viewing angle - 170 deg(H) & 160 deg(V) or better	
		Contrast Ratio - 1000:1 or higher	
		220 nits typical brightness or higher	
10.	Network Connectivity	10/100/1000 Gigabit Ethernet Port	
		Integrated WiFi 802.11 b/g/n	

		Bluetooth 4.0 or higher
11.	Power Supply	Compatible integrated power supply with 85% efficiency or better
12.	Keyboard	OEM wireless/ wired USB 104 Keyboard
13.	Mouse	OEM wireless/USB Optical Mouse
14.	Operating System	Factory loaded Licensed Windows 11 Professional 64 bit with OEM Recovery DVD or option of Cloud Recovery along with certificate for Windows from OEM
15.	Software	All necessary OEM drivers
16.	Webcam	FHD Camera
17.	Mic	Inbuilt Mic
18.	Speakers	HD Audio, Inbuilt Stereo Speakers
19.	Stand	Standard
20.	Accessories	All necessary connectors, power/data cables and power adapters. All cables and connectors as per Indian Standards
21.	Information Accessibility	Brochure and specification sheets of the product to be available in public domain
22.	Warranty	3 Years Onsite comprehensive warranty including keyboard and mouse
23.	Certification	Energy Star compliant or EPEAT registered
		RoHS Compliance/Certification, <u>BIS/ UL/MET Certification</u> , FCC Certification, CE Certification, Windows Certification
		ISO 9001, ISO 14001, ISO 20001

Item Category		Item Name	Quantity Required
B		All in One Printer	885
S. No.	Feature	Minimum Specifications	
1.	Resolution	600 x 600 dots per inch (dpi) or better	
2.	Printer type	Laser	
3.	Printing type	Monochrome	
4.	Speed	30 pages/copies per minute	
5.	Copier Zoom adjust	25% - 400%, Fit to page	
6.	Document Feeder	ADF with support for A4, letter and legal paper sizes	

	Type	
7.	Duplex Printing	Automatic two-sided printing
8.	Functions	Wi-Fi, Multifunction (Print, Copy, Scan with ADF)
9.	Memory	128MB or higher
10.	Connectivity	Hi Speed USB, Ethernet 10/100/1000 and WiFi 802.11 b/g/n, WiFi Direct
11.	Media size supported	At least A4, Letter, Legal
12.	Media Types	Paper (bond, brochure, color, glossy, letterhead, photo, plain, preprinted, rough), labels, envelopes
13.	Duty Cycle	15000 pages per month or more
14.	OS Compatibility	Microsoft Windows 8 and above (32/64 bit)
		Mac OS 10.15 and above
15.	Accessories	All required Cables as per Indian Standards (Power/USB/LAN)
		All required media Drivers on Optical Discs
16.	Warranty	3 Years Onsite comprehensive OEM warranty
17.	Certification	RoHS Compliance/Certification, BIS/ UL Certification , CE Certification

Item Category		Item Name	Quantity Required
C		LED Screen	535
S. No.	Feature	Minimum Specifications	
1.	Screen size	43 inch or higher	
2.	Resolution	3840 x 2160 (UHD) 4K	
3.	Type	Smart Display	
4.	Brightness	300 Nits or better	
5.	Operation Hours	16 x 7	
6.	Native contrast ratio	1300:1 or better	
7.	Speakers	In-built; 20W (2 x 10W) or higher	
8.	Power Supply	AC 100 - 240 V (+/- 10%), 50/60 Hz	
9.	Storage	Minimum 8 GB	
10.	Input Ports	2 x HDMI, 1 x USB, 1 x RS232C (optional) 1 x RJ45/LAN	

11.	WiFi	Built in WiFi
12.	External control	RS232C (optional) , RJ45, IR
13.	Viewing angle	178:178
14.	Mount Type	Wall Mount
15.	Inbuilt Media Player	Should have capability to show Token numbers, Important Messages, Signage, Videos, Images, Notice of Department through LAN network or WiFi
16.	Accessories	User Manual, Power Cord, IR Remote control (with battery), 5 mtr HDMI Cable for PC connectivity and Wall Mount Kit, table mount stand and all other necessary connectors and cables. All cables and connectors as per Indian Standards
17.	Certifications	<u>BIS/UL/CB</u> , FCC/EMC, CE
		ISO9001, ISO14001, ISO45001
18.	Warranty	3 years onsite comprehensive warranty from OEM

Digital Signage Solution Administration Software/CMS

S. No.	General Specifications
1.	Secure central web enabled console to push content to monitors. The user interface must be browser-based for both administrator and typical user access. This is to allow all users, regardless of role, to access the system from anywhere on the network without requiring installation of specialized client-side software.
2.	The system must have the ability to customize delivery of content and scheduling to displays based on specific parameters such as: Grouping of Displays, Individual Display, Day of week, Time of day
3.	Deployment of signage Screen at a particular location and provide it with Unique Identification Number (UIN) for future reference.
4.	Capability to identify UIN should be a logical combination for easy identification - (fields such as IP address, Centre code, Centre Name, Address, Contact Info, Type of screen etc. to be added)
5.	Transmitting/downloading/deploying content to a logically grouped centers/locations/Circles.
6.	Must be from same OEM as that of Smart Signage Displays being supplied under this tender. Must provide a perpetual license of the CMS
7.	Ability to power ON/OFF media player in a schedule and manual override required, mute/unmute from a centralized location.
Content Management	
8.	<u>Should support Multi-lingual/ regional language content as per the</u>

	<u>location/region of the Digital Signage Screen - English, Punjabi and Hindi. Should support media (images/videos) and text in Punjabi language in addition to Hindi and English</u>
9.	Ability to manage display layout/design on individual screen from a centralized location based on clustering. Single screen or split screen with independently controlled frames. Facility of Scrolling ticker to separate multiple display on separate regions on the screen.
10.	Must have multiple customizable templates available.
11.	Must have a programmable content that will continue to run, even if the connection to the server is lost.
12.	Format Supported: Videos: WMV, MP4, MOV, AVI, MPEG, with all major codecs support Ticker: Live RSS & Static Text Ticker Images: JPEG, PNG, BMP, GIF Documents Files: PDF, PPT*, Doc* Audio: MP3 Web Pages: http, https Be capable of running live streaming content from HTTP Live Streaming (HLS), MPEG-DASH/MMS and RTP/RTSP
13.	Ability to display Social Media and RSS Feeds
14.	Content Repository facility for reusing the content.
15.	Add/modify/delete/combine content in any of the file formats which results in audio, video, text format (this includes pdf, ppt, media files, etc.)
16.	Add textual content on image, video and scrolling messages.
17.	Support for displaying real time token number at the centre along with other media/text
18.	Ability to manage the Content deployment from a central location on a real time basis as well as on offline basis (scheduled date and time) for better bandwidth management i.e. Store and show technique.
19.	Ability to view the final content before the final upload. In-built preview of display allows checking before publishing.
20.	Facility to remotely view the current playback status of any screens by way of screen shots (thumbnail images), same display on screen, etc.
21.	Transmitting/downloading/deploying and scheduling content to a Logically grouped on signage screen/Media player by location/Region/Subsidiaries etc. without any limitations.
22.	System must offer support for the display of video streams. Authorized users will be able to schedule the display of streaming video, per player.
23.	Facility to approve content before publishing the media.

24.	Software support different aspect ratios of the screen. Like 16:9, 4:3 etc. Software should be flexible for selection of any standard resolution in pixels. Screen orientations supported, portrait or landscape. The software support FHD/UHD. The software supports all available resolutions compatible with the hardware and display combinations.
Administration /CMS	
25.	Users should be allowed to access the status of a Player, which playlist is currently being displayed, the username of the person that sent the last update, the state of the Player's content download progress and confirmation of its successful completion. All this information to be provided in real time.
26.	System must allow authorized users to override the display of normal content with alert content.
Connectivity	
27.	The Solution should be capable of connecting with the existing LAN network within centre network.
28.	If content deployment has failed to a particular location, then redeployment process should be initiated automatically at least for a prefixed number of times. Only failed media content needs to be retransmitted.
29.	Ability to delete content from Digital Media Player/screens (Copy must be retained at central server)
30.	Players must be network-based and capable of receiving content updates from content server via TCP/IP without user intervention.
Monitoring and Control Module	
31.	Provision to identify the Media Player not getting updates due to Media Player switched off, network failure etc.
32.	System must allow IT to check the status of the entire system, including the status of all players from the content server and generate report w.r.t the digital signage i.e. Downtime, uptime, content created, content deployed, Digital Media working status etc.
33.	Report on what content played where and at what time.
34.	Proof of play reports: Audit log report on content played for each player.
35.	Users should be allowed to review a list of previously recorded alerts and events relative to each Player under their control.
User Management and Security Module	
36.	The solution must be able to support single sign-on login authentication from the existing Active Directory environment. The user authentication integration must map users' credentials, such as group membership, from the AD.
37.	Accounts that must be synchronized so that disabling a user, adding a user, changing password or changing group membership in the Active Directory has

	the same affect in the system.
38.	User management - Create users and groups with different access levels.
39.	Password protected access and Forgot Password option. Super admin can login and regenerate password for any user.
40.	In addition, there must be the ability for administrators to assign the following rights to each user such as: <ul style="list-style-type: none"> · Which network (group/sub-group) of Players each user can see and access. · Which content library users can see and access. · Which playlist users can see and access. · Which tasks each user is authorized to perform.
41.	System must allow an unlimited number of user accounts and groups to be created at no additional cost.

Security requirements

42.	Compatibility with all current virtualization and cloud computing technologies.
43.	Compatibility with any internet proxy servers.
44.	Compatibility with http and https connections via IPv4 and IPv6.
45.	Ability to specify which communication ports the application will use.
46.	Security requirements do not require an open internet connection to download and activate the software.
47.	System must support strong passwords and will allow Customer to define a logout time for inactive web browser sessions.
48.	Facility to manage display remotely i.e disabling and enabling of USB, Wi-Fi, Bluetooth, Screen mirroring, updating of Signage IP address and updating of date and time from a centralized CMS.

CMS software installation and configuration

S. No.	General Specifications
1.	The successful bidder shall provide end to end solution and should be responsible for supply, install/commission, support and maintain the solution at central location of the Department for Digital Signage Systems.
2.	The successful bidder shall Install and configure the server at the central location to ensure successful working of the Digital Signage Systems.
3.	The successful bidder shall provide training to Department officials or vendor selected by the Department on using the CMS solution and uploading content to it.

Additional Requirement of the Digital Signage Solution

S. No.	General Specifications
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1.	Necessary training shall be given to the Department nominated staff for operating and troubleshooting Digital Signages.
2.	Bidder must offer remote implementation support for network and system configuration.
3.	Must provide 3 years onsite support, comprehensive warranty and security updates/patches.

Item Category		Item Name	Quantity Required
D		UPS	6595
S. No.	Feature	Minimum Specifications	
1.	Capacity	600VA Line Interactive	
2.	Backup Time	10 mins or higher on 1 AIO/Desktop computer load	
3.	Input Voltage	230V AC (145-290V AC, input frequency 50Hz +/- 3Hz auto sensing) on full load	
4.	Output Voltage on Battery Mode	<u>230V +/- 10% with AVR (Automatic Voltage Regulation) 50Hz +/- 2%</u>	
5.	Battery Type	Maintenance free sealed Lead- Acid battery with suspended electrolyte: leak proof	
		12V 7AH, 1 battery	
6.	Topology	Line interactive, Stepped approximation to a sine wave	
7.	Efficiency	>= 75% at full load on mains mode	
8.	Indicators	Main on, battery, Charging, Overload	
9.	Alarms	Low battery, mains off, tripping	
10.	Noise level	< 50Db	
11.	Operating environment	0°C - 40°C or better	
12.	Enclosure type	ABS	
13.	Output Socket	Three or more 3 pin sockets	
14.	Transfer/ Switching over time (milli sec.)	Typical 4-8 milli seconds, Maximum 10 milli seconds	
15.	Damage Protection	Protection against short circuit of UPS, spikes, over voltage and overload	
16.	Other features	In built auto switch off in battery low, off mode charging	
17.	Warranty for UPS & Battery	<u>3 years</u> or more onsite warranty on UPS system	
		<u>3 years</u> or more onsite warranty on batteries	
18.	<u>Certification</u>	RoHS <u>or equivalent Compliance/Certification</u> , BIS	

	Certification
	ISO 9001, ISO 45001, ISO 14001

Item Category	Item Name	Quantity Required
E & F	Switch (Layer 2)	257
	Switch (Layer 3)	100
Switch (Layer 2)		
Minimum Specifications		
<u>Switch Should Support 24 10/100/1000BASE-T Ports, 4x10G uplink SFP+ ports and RJ-45 console port, switch should have 2KV surge protection.</u>		
<u>Switch should support Operating Temperature from 0 to 50°, Operating Humidity 0% to 95% relative humidity, Support Jumbo Frame up to 9K Bytes or higher and 16K MAC Address Table Support.</u>		
The Switch shall have the intelligence to detect the loop occurring from the unmanaged network segment.		
Switch Should Support IGMP Snooping v1, v2 / MLD snooping v1/v2, Support Auto Voice & Video VLAN.		
Switch Should Support IEEE 802.3az Energy Efficient Ethernet (EEE) Power saving Technology and Switch Should Support Port Mirroring One to one/Many to One.		
Switch should support Quality of Service (QoS), 802.1p, Strict, Weighted Round Robin (WRR), Bandwidth Control.		
Switch Should Support L3 Features for inter-VLAN Communication, Static Routing.		
Switch should support Access Control List (ACL), Port Base rule can be associated, MAC Base, IP Based, L2 & L3 ACL (IPv4 and IPv6).		
Switch Should Support Security Features like Broadcast/Multicast/Unicast, DoS attack prevention, Transport Layer Security (TLS), Secure Sockets Layer (SSL), for encryption Data and keep secure when being transferred over a network.		
Storm Control, Traffic segmentation, 802.1X Port-based Access Control, Port Security, ARP Spoofing Prevention, DHCP Server Screening, IP-MAC Port Binding, ARP & IP Inspection, DHCP Snooping, Support Extensible Authentication Protocol (EAP).		
Switch should have BIS Certificate, EMI CERTIFICATE - CE/FCC/IEC and SAFETY CERTIFICATE - CB/ UL.		
To ensure only principal networking companies participate having strong Product, Support and Service.		
OEM should have min own 5+ Service Centre in PAN India and OEM should have fully functional Call Centre / Help Desk/ TAC/ Support Center in India. The process of		

complaint booking/call logging/domain mail ID should be clearly explained.

Product training: 3 days

Switch (Layer 3)

Minimum Specifications

Switch Should Support Number of Ports:

20*10/100/1000Base-T PoE Ports, loaded 4*Combo 10/100/1000BASE-T/SFP ports and 4*10G SFP+ port.

OR

24*10/100/1000Base-T PoE Ports and 4*10G SFP+ port.

Should have 2KV or higher Surge protection (External / Internal)

Switch Should Support 10/100/1000BASE-T RJ-45 Ethernet for out-of- band IP management Port, RJ45/RS-232/Mini USB console ports for out-of-band CLI management.

One RJ-45 port in the Front or Rear panel and should provide alarm circuit for external alarm detection (2 input, 2 output), Switch should have facility for logs and traps configuration for external/internal alarms

Switch should have open slot for USB flash drive for portable firmware images and configuration files upload or download.

Switching Capacity should be 128 Gbps or more and 64-byte Packet Forwarding rate should be 95 Mpps or more.

IPv4 Routing table should support 16K entries or more, IPv6 Routing table should support 7K entries or more.

Should support Energy Efficiency Ethernet (EEE) IEEE802.3az for less power consumption during periods of low data activity.

Switch should support Physical Stacking up to 8 units per stack. Stacking bandwidth should be up to 80G full duplex.

Should support Head of Line blocking prevention for lower latency and better performance.

Support Jumbo Frame up to 9K Bytes or higher and MAC Address Table should be 32K or more.

Switch should support IEEE 802.1D STP, 802.1w RSTP and 802.1s MSTP, Root Guard and Loop Guard Protocol.

Support of 802.1AX Link Aggregation with Max. 24 groups per device, 8 ports per group

Should have ERPS as per standard ITU-T G.8032 or equivalent to provide sub-

50ms protection for Ethernet traffic in ring topology.

Should support VLAN Mirroring, RSPAN or equivalent.

Should support IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Proxy, DVMRPv3/PIM-DM/SM/SSM/SDM L3 Multicast protocol.

Should support MLD V1/V2 Snooping, Able to create 4K or more MLD groups, Per VLAN MLD Snooping and require support for Host-based MLD Fast Leave.

Should have PIM Snooping restricts multicast packets.

Require IEEE 802.1Q Tagged VLAN protocol.

Should support 4K VLAN Groups and configurable VLAN ID: 0 to 4094

Should support 802.1v Protocol-based VLAN, Double VLAN (Q-in-Q), Port-based Q-in-Q, Selective Q-in-Q, Port-based VLAN, MAC-based VLAN, Subnet-based VLAN, Private VLAN, Multicast VLAN (ISM VLAN for IPv4/IPv6), Voice VLAN, Super VLAN, Auto Surveillance VLAN and VLAN Trunking.

Should support Supports 256 IP interfaces.

Should support Loopback Interface.

Switch should support IPv6 Tunnelling for Static, ISATAP, GRE and 6to4 Tunnel.

Should support VRRPV2 and V3.

Should have 16K hardware routing entries for IPv4/IPv6.

Should support PBR (Policy-based Route), Route Preference, Route Redistribution, RIPv1/v2/ng, BGPv4/v4+ and OSPF v2/v3.

Should support VRF-Lite for IPv4 Static Route, RIPv1/v2, OSPFv2, and BGPv4.

Should support Route Preference and Route Redistribution.

Should support IP Helper and Graceful Restart (GR) Helper.

Should have BFD (Bidirectional Forwarding Detection) for IPv4/v6 Static Route, OSPF, RIP and VRRP.

Should support IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Proxy, DVMRPv3/PIM-DM/SM/SSM/SDM L3 Multicast protocol.

Should support 802.1p Quality of Service with 8 queues per port.

Should support Queue Handling with Strict Priority Queue, Weighted Round Robin, Weighted Deficit Round Robin (WDRR) and Strict + WRR.

Should support Weighted Random Early Detection (WRED) Congestion Control.

Should support IEEE 802.1Qbb Priority-based Flow Control (PFC) for 10 GbE port

QoS Policy should support on Three Color Marker with trTCM and srTCM.

Switch should support at least 4K Ingress (hardware entries), 1K Egress (hardware entries) and 3K VLAN Access Map ACL.

Should support Time-based ACL, Switch should deliver 802.3at PoE+ and 802.3af PoE power to any of the RJ-45 ports and total power available for PoE switch should be

370W or higher.
Should have Port Security with 12K or higher MAC addresses per Port/System/VLAN.
Support per port Broadcast/Multicast/Unicast Storm Control.
Should support DHCP Server Screening, DHCP Snooping, DHCPv6 Guard.
Require Dynamic ARP Inspection and ARP Spoofing Prevention.
Should have IPv6 Snooping, IP Source Guard, IPv6 Route Advertisement (RA) Guard, IPv6 ND Inspection,
Should have Unicast Reverse Path Forwarding (URPF) and BPDU Attack Prevention.
<u>Require prevention of DoS attacks as standard.</u>
Duplicate Address Detection (DAD)
Should have IP+MAC+Port Binding to restrict the access to a switch.
Should support 802.1X Authentication with Port/Host-based access control, Identity-driven Policy Assignment, Dynamic VLAN Assignment, Bandwidth Control Assignment and ACL Assignment.
Should support Web-based Access Control (WAC), Compound Authentication, MAC-based Access Control (MAC), Guest VLAN, Support 802.1X NAP and Support DHCP NAP.
Should support RADIUS and TACACS+ authentication and RADIUS/TACACS+ Accounting.
Support Authentication Database Failover.
Able to manage through IPv6 and IPv4 Web-GUI (HTTP and HTTPS), Fully functional CLI interface.
Should have Telnet Server for IPv4/IPv6 access and Telnet Client for IPv4/IPv6.
<u>Should have SNTP/NTP/PTP Protocol for time synchronization.</u>
<u>Should support SNMP v1, v2c, v3 for IPv4/IPv6 and SNMP Traps and Remote Monitoring RMONv1 and RMONv2 or sflow or equivalent.</u>
Should support OpenFlow 1.3 and allowing the switches to be managed using an OpenFlow controller.
Should support LLDP and LLDP-MED.
Should support DHCP Relay option 60/61/62/18/37/125
Should support DHCP Server for IPv4/IPv6 address assignment.
Should have Multiple Images/ Multiple Configurations file.
Should have DNS Relay and Client for IPv4/IPv6
Should support Ping/ Traceroute for IPv6
Should support Flow (RFC3176) for monitoring traffic in data networks.
Should support Cable Diagnostics to test copper cables and determine the quality of the cables and the types of error.
Should support 802.3ah Ethernet Link OAM, Unidirectional Link Detection, Dying gasp,

802.1ag Connectivity Fault Management (CFM) and Y.1731 OAM.
AC Input: 100 to 240 VAC, 50/60 Hz internal universal power supply
Switch should support Redundant Power Supply (RPS). Two Power Supply should be supplied with switch and ready from day 1.
<u>Operating Temperature: 0 to 50 °C, Operating Humidity 0% to 95% relative humidity.</u>
<u>Switch should have BIS certificate, EMI CERTIFICATE – CE/FCC/IEC and SAFETY CERTIFICATE - CB/UL and OEM Should have IEC 62443-4-1 Product Security Certification or equivalent Security OEM Certificate.</u>
Switch should be supplied with the all-necessary hardware accessories like Power cord, Console Cable, Rack-mount bracket, Installation Guide, etc. and necessary software image file to fulfil all above mention feature set from day 1.
Product training 3 days

Item Category	Item Name	Quantity Required
G	Video Conference Setup with LED	100
S. No.	Feature	Minimum Specifications
1.	Type of End Point	Point to Point non upgradable
2.	Video Conferencing System Resolution	1080p, 30 fps or more
3.	Minimum Bandwidth Required for Specified video quality at End point/far-site end (Kbps)	2048
4.	Type of Camera	PTZ
5.	Camera Positioning System	Preset
6.	Type of sensor	CMOS
7.	Camera Control (focusing, brightness, and white balance)	Automatic
8.	Optical zoom	10x
9.	Field of View at zoom (Degree)	70
10.	Pan range Minimum to Maximum (+/- Degree)	+/- 100 degrees
11.	Tilt Range (Degree)	+/- 20 degrees
12.	Video coding support Protocol	H.264 AVC, H.265
13.	System supports sharing of video and graphics content	1080p, 30fps

	during the video call	
14.	Number of microphones supported	3
15.	Number of microphones supplied	2
16.	Number of camera support from the same OEM	1 or more
17.	Number of Ethernet connection points for System supports for RJ-45, 10/100/1000 Mbps Base-T Ethernet connection	1
18.	Wi Fi Connectivity	No
19.	If Yes, Type of Wi Fi Connectivity	NA
20.	System to be IPv6 ready from day one	Yes
21.	System uses standards based protocols & the offered system is inter operable with any existing H-323 AVC/SVC based VC equipment in a P to P call on VC end point; All H/W and S/W required to make it interoperable is included in the scope of supply	Yes
22.	<u>Number of Input HDMI or equivalent Ports</u>	<u>Minimum 2 or more</u>
23.	Number of Output HDMI or equivalent Port	2
24.	Recording @1080p on the end point	No
25.	Type of Microphone	Omni Directional
26.	Accessories	All required Cables as per Indian Standards (Power, HDMI, USB, LAN etc.).
27.	<u>Certification</u>	<u>BIS/UL/CB, CE</u>
28.	On Site OEM Warranty	3 years

Additional Technical Specifications Parameters for Video Conferencing Endpoint

The VC system should support Media Encryption (AES-128 & AES-256) for both H.323 & SIP calls.

The VC system should be supplied with 10x Optical Zoom 1080p30 camera (or higher).

Should have 1 x HDMI/HDCI/USB input to connect to 1080p30 camera and additional 1 x HDMI to support up to 1080p30, 4K5fps content sharing during Point-to-Point calls.

Should have Dual Video Output to connect to 2 nos 4K Displays.

Should have 3 Mic Inputs to connect to 3 Mics simultaneously.

VC system should have inbuilt/external USB Pass-through feature to use the VC system as an external camera and microphones when connected to a Laptop/PC to join any Cloud Based VC platform like Webex, MS Teams, Blue Jeans, Google Meet, NIC Bharat VC, NIC Vidyo etc. It should be possible to Mute/Unmute all the microphones and control camera functionality from the same remote control/touch control panel during USB pass-through mode. In case of external hardware quoted to comply above functionality, the external hardware OEM should certify the compatibility with the quoted VC Codec. It should be compatible to work with Windows and MacOS with no driver/software installation requirement. It should be a USB 3.0 output device. The external hardware should have BIS certification.

The VC system should support Enterprise CA-signed certificate support to manage the device securely from Web Browser using a secure Laptop/Desktop within the organization.

The VC system should have feature to support secured wireless content sharing from Windows & MacOS, Android & iOS Smartphones and Android & iOS Tablets.

The Codec should be supplied with OEM 7" or above touch panel day one.

The VC system should be UL certified.

Video Conference LED

S. No.	Feature	Minimum Specifications
1.	Screen size	75 inch or higher
2.	Resolution	3840 x 2160 (4K UHD)
3.	Brightness	350 Nits or better
4.	Operation hours	16 x 7 hours support
5.	Native contrast ratio	1100:1 or better
6.	Response Time	8 ms or better

7.	Speakers	In-built; 2 x 10W or higher
8.	Power Supply	AC 100 - 240 V (+/- 10%), 50/60 Hz
9.	Power Consumption	Typical 180W or lower; maximum consumption(W/h) <= 240W
10.	Haze	1% or higher
11.	Storage	Minimum 8 GB
12.	<u>File support</u>	<u>Direct viewing of Images and video. Viewing of PPT, Word, PDF with or without using an external app installed.</u>
13.	Input ports	Video: 3 x HDMI 2.0 or more Audio: Stereo mini jack, DVI, HDMI USB: 2 x USB 2.0 or higher IR: 1 x Internal RGB: 1 x DVI-D, 1 x Display Port 1.2 for backwards compatibility (inbuilt or through connector)
14.	Output ports	RGB (optional): HDMI 2.0 (loop-out) Audio: Stereo mini jack
15.	External control	RS232C (optional), RJ45
16.	WiFi	Built in WiFi
17.	Viewing angle	178:178
18.	Mount Type	Wall mount
19.	Special Features	Inbuilt media player, wifi, Auto source switching & recovery, Screen mirroring
20.	Accessories	User Manual, Power Cord, IR Remote control (with battery), 2 mtr HDMI Cable and Wall Mount Kit, table mount stand (optional) and all other necessary connectors and cables. All cables and connectors as per Indian Standards
21.	Certifications	RoHS, BIS/UL/CB , FCC/EMC, CE ISO9001, ISO14001, ISO45001
22.	Warranty	3 years onsite warranty from OEM

Item Category		Item Name	Quantity Required
H		Desktop with USB Web Camera	2276
S. No.	Feature	Minimum Specifications	

1.	Form factor	Desktop PC with small form factor (SFF) casing
2.	Processor	<u>Intel® Core i7 12th Generation or AMD equivalent (i.e., Ryzen™ 7 5000 Series) or higher</u>
3.	Chipset	<u>Compatible Intel/AMD chipset</u>
4.	Motherboard	OEM certified OEM Motherboard with onboard/discrete Graphics sound card and Ethernet port or equivalent
5.	Memory (RAM)	8 GB DDR4 3200 MHz or higher with at least two DIMM slots
		<u>Minimum Expandable up to 32 GB</u>
6.	Ports	Minimum 6 USB Ports with at least 2 USB 3.1 Gen 1 or higher; at least 2 ports on the front side
		1 x RS-232 Serial port <u>(optional)</u>
		<u>1 x HDMI/Display/VGA Port</u>
		2 x PS/2 ports <u>(optional)</u>
		1 Microphone/Headphone Combo Jack
		1 x HDMI out
7.	Video Controller	To support HDMI
8.	Storage Disk	256 GB SSD
		1 TB 7200 RPM SATA HDD
11.	Display	19.5-inch anti-glare or higher
		Resolution -1600 x 900 High Definition Plus (HD+) or higher
12.	Network Connectivity	10/100/1000 Gigabit Ethernet Port
		Inbuilt WiFi 802.11 b/g/n
13.	Cabinet	<u>Small Form Factor (SFF)/Mini Tower</u>
15.	Power Supply	Compatible power supply with 85% efficiency or better
16.	Keyboard	OEM wired USB/PS2 104 Keyboard
17.	Mouse	OEM wired USB/PS2 Optical/Laser Scroll Mouse

18.	Operating System	Factory loaded Licensed Windows 11 Professional 64 bit with OEM Recovery DVD or option of Cloud Recovery along with certificate for Windows from OEM
19.	Software	All necessary OEM drivers
20.	Accessories	All necessary connectors, power/data cables and power adapters. All cables and connectors as per Indian Standards
21.	Information Accessibility	Brochure and specification sheets of the product to be available in public domain
22.	Warranty	3 Years Onsite comprehensive warranty including keyboard and mouse
23.	Certification	Energy Star compliant or EPEAT registered in India
		<u>RoHS Compliance/Certification, UL/MET Certification, FCC Certification, CE Certification, Windows Certification</u>
		<u>ISO 9001, ISO 14001, ISO 20001</u>

USB Web Camera

S. No.	Feature	Minimum Specifications
1.	USB Type	<u>High Speed USB 3.0 or higher</u>
2.	Video calling resolution	1280 x 720 pixels or above
3.	Video capture	Up to 1280 x 720 pixels
4.	Photos	Upto 3.0 megapixels
5.	Frame Rate	30fps @ 640x480
6.	Features	Digital Zoom
		Clip-On; Universal clip that fits laptops, LCD monitors
		Auto Exposure
		Autofocus
7.	Microphone	Integrated with noise reduction
8.	Installation	Plug and play

9.	Cable Length	<u>3 Meters or more</u>
10.	Compatibility	Windows 10, Windows 11 or higher
11.	Warranty	<u>3 Years Onsite warranty</u>
12.	Webcam stand	<u>Compatible to hold the webcam for eye-level or overhead views and should be adjustable for easy movement</u>

Item Category		Item Name	Quantity Required
I		Desktop	845
S. No.	Feature	Minimum Specifications	
1.	Form factor	Desktop PC with small form factor (SFF) casing	
2.	<u>Processor</u>	<u>Intel® Core i7 12th Generation or AMD equivalent (i.e., Ryzen™ 7 5000 Series) or higher</u>	
3.	<u>Chipset</u>	<u>Compatible Intel/AMD chipset</u>	
4.	Motherboard	OEM certified OEM Motherboard with onboard/discrete Graphics sound card and Ethernet port or equivalent	
5.	Memory (RAM)	8 GB DDR4 3200 MHz or higher with at least two DIMM slots	
		<u>Minimum Expandable up to 32 GB</u>	
6.	Ports	Minimum 6 USB Ports with at least 2 USB 3.1 Gen 1 or higher; at least 2 ports on the front side	
		1 x RS-232 Serial port <u>(optional)</u>	
		1 x <u>HDMI/Display/VGA</u> Port	
		2 x PS/2 ports <u>(optional)</u>	
		1 Microphone/Headphone Combo Jack	
		1 x HDMI out	
		1 x RJ45	
7.	Video Controller	To support HDMI	
8.	Storage Disk	256 GB SSD	
		1 TB 7200 RPM SATA HDD	
11.	Display	19.5-inch anti-glare or higher	

		Resolution -1600 x 900 High Definition Plus (HD+) or higher
12.	Network Connectivity	10/100/1000 Gigabit Ethernet Port
		Inbuilt WiFi 802.11 b/g/n
13.	Cabinet	<u>Small Form Factor (SFF)/Mini Tower</u>
15.	Power Supply	Compatible power supply with 85% efficiency or better
16.	Keyboard	OEM wired USB/PS2 104 Keyboard
17.	Mouse	OEM wired USB/PS2 Optical/Laser Scroll Mouse
18.	Operating System	Factory loaded Licenced Windows 11 Professional 64 bit with OEM Recovery DVD or option of Cloud Recovery along with certificate for Windows from OEM
19.	Software	All necessary OEM drivers
20.	Accessories	All necessary connectors, power/data cables and power adapters. All cables and connectors as per Indian Standards
21.	Information Accessibility	Brochure and specification sheets of the product to be available in public domain
22.	Warranty	3 Years Onsite comprehensive warranty including keyboard and mouse
23.	Certification	Energy Star compliant or EPEAT registered in India
		<u>RoHS Compliance/Certification, UL/MET Certification, FCC Certification, CE Certification, Windows Certification</u>
		<u>ISO 9001, ISO 14001, ISO 20001</u>
<u>Note: The above specifications are minimum requirements. However, bidder can quote for the higher technical specifications with proper justification and the competitive price.</u>		

11.13 Form 13: Self Declaration about Make, Model, Quantity and Specification

[On the letterhead of the organization]

Letter No.

Date:

To,

The Director,
Department of Governance Reforms & Public Grievances
Plot No. D, 241, Industrial Area, Sector 74,
Sahib Zada Ajit Singh Nagar,
Punjab-160071

Subject: Self Declaration about Make, Model, Quantity and Specification of the quoted products

Dear Sir/ Madam,

I/we.....(Name of Company/Bidder) hereby certify that the complete details of the make, model, exact quantity being quoted along with the Specifications of the product is as below and is also available on the OEM website. I/We(Name of Company/Bidder) also certify that the financials are being quoted for the below products only and is aware that any deviation to this may lead to forfeiture of the EMD/ Legal Action/ Blacklisting of the firm.

OEM Website URL			
Sr. No	Model Name	Make	Exact Quantity for Delivery

Yours Sincerely,

Authorized Signature [In full and initials] with seal:

Name and Title of Signatory:

Name of Firm:

Address:

Location:

Date:

12.2 Location Wise Item Quantities To Be Delivered

District	Item Category A	Item Category B	Item Category C	Item Category D	Item Category E	Item Category F	Item Category G	Item Category H	Item Category I
	AIO Computer	All In One Printer	LED Screen	UPS	L2 Switches	L3 Switches	VC Setup	Desktop with USB Web Camera	Desktop
Amritsar	206	42	41	368	13	5	7	162	
Barnala	107	22	13	172	5	1	3	65	
Bathinda	158	33	34	306	16	3	2	148	
Faridkot	57	12	12	105	2	1	2	48	
Fatehgarh Sahib	129	27	14	189	6	4	4	60	
Fazilka	178	37	21	263	33	3	4	85	
Ferozepur	92	19	26	195	6	2	2	103	
Gurdaspur	273	56	40	404	5	6	4	131	
Hoshiarpur	114	24	28	232	11	6	5	118	
Jalandhar	80	17	35	255	11	4	5	175	
Kapurthala	127	26	20	221	10	4	7	94	
Ludhiana	197	40	40	396	31	12	10	199	
Malerkotla	89	19	9	124	3	1	2	35	
Mansa	246	50	16	314	4	3	3	68	
Moga	147	30	13	209	4	3	3	62	
Pathankot	50	11	16	112	2	2	2	62	

Patiala	246	50	42	420	22	6	8	174	
Rupnagar	215	44	23	308	8	4	4	93	
Sangrur	119	25	24	224	24	10	7	105	
SAS Nagar	327	66	15	401	13	6	3	74	
SBS Nagar	62	13	17	129	20	5	4	67	
Sri Muktsar Sahib	166	34	15	235	3	2	6	69	
Tarn Taran	89	19	21	168	5	7	3	79	
<u>GAD/ Punjab Civil Secretariat Chandigarh</u>	0	169	0	845	0	0	0		845
Total	3474	885	535	6595	257	100	100	2276	845