

Addendum 1-RFP /11/2021-NeGD

1. Pg 26-2-Infrastructure Requirements

Sr.No	Items	Quantity	Specifications	Rooms
1.	IPAD for control purpose	1	Wi-Fi only, 32GB, 10.2 screen	E-Studio
2.	Contactless Access Control Solution	1	<ul style="list-style-type: none"> • Should be able to use for Time Attendance and Access Control both. • Should have Log capacity of 1, 00,000. • User and Card capacity: 2000. • Should be able to connect via TCP/IP or USB. • In-built battery backup. • Should come with 100 Access control card. 	
3.	Whiteboard	1	<ul style="list-style-type: none"> • Wall-mountable Magnetic Whiteboard (48x36") 	

4	65 inches LED 4K Commercial Display	3	<ul style="list-style-type: none"> • Resolution: 3840X2160 (UHD) • HDMI In (HDCP) 2.0, RF In (tuner), • AV In (Phone Jack Type), Digital Audio Out (Optical), (Control & Service), RJ45 (Usage Purpose) 2 (Ethernet, SNMP), External Speaker Out (3.5mm phone jack) (Spk-out 1, 1W, 8Ω), Debug (Phone Jack Type) • Brightness: 400 nits • Or better.
5.	Goggle Camera Full HD	2	<ul style="list-style-type: none"> • Battery Powered • FHD 1920x1080 Pixels • Field Of View: 60 Degrees • Built-In Microphone • Micro Sd Card Socket: Support Up To 32Gb • Or better.
6.	Camera(USBandHDMI,FHD,12xZoom,PTZcamera)	2	<ul style="list-style-type: none"> • 12x Zoom. • FHD - 1080p • PTZ Camera • USB & HDMI interface
7.	2 x USB input and HDMI output	1	<ul style="list-style-type: none"> • 2 x USB-A 3.0 • 1 x HDMI (4K 30Hz)

8.	Audio Conferencing System Wall mounting	1	This product should work with product mentioned in Point# 7.	
9.	CCTV Camera	2	<ul style="list-style-type: none"> • 2MP 1080p Bullet CCTV Camera. • True Day/ Night Vision. • Metal Housing. • IP66 Rating. 	
10.	Curved40-inchTV	2	<ul style="list-style-type: none"> • 40 in, LED TV • 4K Resolution, 3840 x 2160 p • WiFi, Ethernet • Smart TV • 2 Speakers, 20 w Output • Curved Screen • 3 HDMI Ports, 2 USB Ports • 120 Hz 	Immersive Experience Room
11	2 Ethernet Switch	2	<ul style="list-style-type: none"> • 48 ports Network switch. • All ports should support 10GbE. 	
12	Cat6 Cabling	1	All cabling should be configured for 10 GbE connectivity.	
13	Power Socket	2	As per Industry Standards	
14	Wearable Storage Unit	1	As per Pg 18 Room Layout Dimensions	

15	Contactless Access Control System	1	<ul style="list-style-type: none"> • Should be able to use for Time Attendance and Access Control both. • Should have minimum Log capacity of 50, 000. • User and Card capacity: 1000. • Should be able to connect via TCP/IP or USB. • In-built battery backup. • All such solutions deployed in different room should work on a central platform. 	
16	CCTV Camera	1	<ul style="list-style-type: none"> • 2MP 1080p Bullet CCTV Camera. • True Day/ Night Vision. • Metal Housing. IP66 Rating. 	
17	Chairs	4	<ul style="list-style-type: none"> • Ergonomic chair with high back, adjustable arms. • Cast aluminum base. • Recline locking. 	Isolation Room
18	UPS	1	<ul style="list-style-type: none"> • 6 Kva UPS with 20 Nos. 9Ah/ 12Vsmf Maintenance-free batteries with 	

			<p>suitable rack.</p> <ul style="list-style-type: none"> • Connectors and Cables.
19	Shoe Rack	1	As per Pg 19,Room Layout Dimensions
20	Wall Mount Shelf	1	As per Pg 19,Room Layout Dimensions
21	Evidence Storage Rack	1	<ul style="list-style-type: none"> • Material should be Fireproof mild Steel. • Lock type: 10 Lever, High security Cylindrical Locks. • Minimum 50 Ltr size. • Single Door.
22	Clothing Rack	1	As per Pg 19,Room Layout Dimensions

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23	PowerSockets	4	As per Industry Standards	Training Room
24	Wallmount Donor drive shelf	1	<ul style="list-style-type: none"> Should have lockable, anti-skid cabinet with space to stock at least 100 drives. Front door should be of lockable Glass to identify and quick access the HDDs. 	
25	Active LED/LED	1	<p>Active LED</p> <p>136" active LED Pixel Pitch: 1.56 mm , (Full HD) ,Brightness: 500 nit</p> <ul style="list-style-type: none"> Embedded System Controller ,Dedicated Accessories : Wall Mount <p>LED</p> <ul style="list-style-type: none"> 99 inch or better <ul style="list-style-type: none"> Resolution: 3840X2160 (UHD) HDMI In (HDCP) 2.0, RF In (tuner), AV In (Phone Jack Type), Digital Audio Out (Optical), (Control & Service), RJ45 (Usage Purpose) 2 (Ethernet, SNMP), External Speaker Out (3.5mm phone jack) (Spk-out 1, 1W, 8Ω), Debug (Phone Jack Type) Brightness: 400 nits or better. (Note: Subject to the Wall Size bidder may propose either of the above) 	
26	Pointer	1	<ul style="list-style-type: none"> Should have Red laser pointer. Should be compatible with Windows OS laptop and Desktop. 50' pointing range. Form-factor: Palm-held. 	
27	Demo Unit table	1	Refer Room Layout Dimensions	
28	Cabinet	1	Refer Room Layout Dimensions	
29	Power Sockets	40	As per Industry Standards	
30	Desktop Computers/Thin Clients	25	<ul style="list-style-type: none"> Should have i7 – 11th Generation 2.5 GHz base frequency with 4.9 GHz Turbo boost, 8-Cores Should have 32 GB DDR4 Memory 	

			<ul style="list-style-type: none"> • Should have one 512 GB M.2 SSD for Operating Systems • Should have one 2 TB 7200 rpm SATA 3.5” Data Drive/ Case Management • Display 22-inch or better with Keyboard and Mouse • Network Card with Ethernet 10G NIC PCIe Card • Windows 10 Professional • With other standard configuration 	
31	Base System- Presenter Tracking System(black)	1	<p>IR Camera</p> <ul style="list-style-type: none"> • Operational range of 12 to 50 ft (3.7 to 15.2 m), any height from 6 to 15 ft. (1.8 to 4.6 m) <p>IR Source Lanyard</p> <ul style="list-style-type: none"> • Battery Life Up to 40 hours 	
32	Presentation Camera	1	<ul style="list-style-type: none"> • 12x Optical Zoom • 1/2.5-type Exmor R CMOS sensor • 70.2° horizontal field of view • Simultaneous HDMI and IP H.264 streaming • Remote IP Management 	
33	AV Bridge	1	<ul style="list-style-type: none"> • Robust two HDMI input AV Bridge • 4x4 Dante Audio matrix (12x12 cross-point audio matrix) • Simultaneous 1080p USB 3.0, HDMI, and IP Streaming Outputs • Flexible control options with serial, telnet, trigger, Device Controller, and web control 	
34	Interactive Podium	1	Movable Podium with Built in AV Connectivity will have provision to mount equipments, control touch panel and Interactive screen (Minimum 21.5 inch Interactive Touch Monitor with Branding/Customer Logo	
35	HDMI and USB cables	1	As per Industry Standards	
36	UPS	1	<ul style="list-style-type: none"> • 10Kva UPS, 16 Nos. 65Ah non-maintenance SMF batteries. • Minimum 90 minutes backup. 	Server Room

			<ul style="list-style-type: none"> Connectors and Cables. 	
37	Industrial Sockets 3 pin 16/32Amp		As per Industry Standards	
38	Fire Safety Equipment	1	<ul style="list-style-type: none"> Fire Extinguishers – CO2 Type. Signage Smoke Alarms 	
39	CCTV Camera	1	<ul style="list-style-type: none"> 2MP 1080p Bullet CCTV Camera. True Day/ Night Vision. Metal Housing. IP66 Rating. 	
40	Contactless Access Control Solution	1	<ul style="list-style-type: none"> Should be able to use for Time Attendance and Access Control both. Should have Log capacity of 50, 000. User and Card capacity: 1000. Should be able to connect via TCP/IP or USB. <ul style="list-style-type: none"> In-built battery backup. All such solutions deployed in different room should work on a central platform. 	
41	Evidence Table	1	Refer Room Layout Dimensions	
42	Chairs	9	<ul style="list-style-type: none"> Ergonomic chair with high back, Adjustable arms. Cast aluminum base. Recline locking. 	
43	Evidence Storage Shelf	1	<ul style="list-style-type: none"> Modular in design. Should have at least 3 lockable shelves. Stainless steel. 	
44	Cabling & Installation		As per Best Practices	
45	CAT-6 Cabling		<ul style="list-style-type: none"> All cabling should be configured for 10 GbE connectivity. 	IT Administrator
46	Wi-Fi Access Point	1	<ul style="list-style-type: none"> Coverage: 1000 Sq. Ft. Devices: Up to 15 Simultaneous Dual Band Wi-Fi External Antennas Ethernet Port. Or better. 	

47	Projector Screen	1	<ul style="list-style-type: none"> • Screen Size: 10'x8'. • Viewing Angle: 160 degrees. • Motorized. • Or better.
48	Case Management System Table	1	Refer Room Layout Dimensions
49	Evidence Shelf	1	<ul style="list-style-type: none"> • Modular in design. • Should have at least 3 lockable shelves. <ul style="list-style-type: none"> • Stainless steel.
50	File Cabinet	1	<ul style="list-style-type: none"> • Vertical. • Material: Steel • Lockable • Should have 4 racks in the filing cabinet.
51	Centralized Display	2	Refer Line Item 10
52	Access Control System	1	<ul style="list-style-type: none"> • Should be able to use for Time Attendance and Access Control both. • Should have Log capacity of 50, 000. • User and Card capacity: 1000. • Should be able to connect via TCP/IP or USB. • In-built battery backup. • All such solutions deployed in different room should work on a central platform.
53	CCTV Camera	1	<ul style="list-style-type: none"> • 2MP 1080p Bullet CCTV Camera. • True Day/ Night Vision. • Metal Housing. IP66 Rating.
54	CCTV Camera Management System	1	<ul style="list-style-type: none"> • Compatible DVR for the CCTV Cameras installed at different locations. • Should be able to handle 16 cameras. • Video Output - 1 HDMI, 1 VGA • Video Recording Resolution: up to 5 MP. • Should have 10 TB surveillance HDD. • All cabling and electric wiring from Cameras to DVR.
55	Chairs	13	<ul style="list-style-type: none"> • Ergonomic chair with high back, adjustable arms. • Cast aluminum base.

			<ul style="list-style-type: none"> Recline locking. 	
56	Projector	1	<ul style="list-style-type: none"> Display Technology: DLP Image Contrast Ratio 10000:1 Aspect Ratio 16:9 Screen Resolution 1920 x 1080 Lamp Life: 15, 000 Hours 	
57	Screen	1	<p>Motorised Projector Screen, 100 Inch Diagonal, 7 Feet x 5 Feet in 4:3 Ratio Picture Format, with Cordless Remote, UHD-3D-4K , Should be Compatible with Item No 55</p>	
58	Demo Unit table	1	Refer Room Layout Dimensions	
59	Wi-Fi Access Point	2	<ul style="list-style-type: none"> Coverage: 1000 Sq. Ft. Devices: Up to 15 Simultaneous Dual Band Wi-Fi External Antennas Ethernet Port 	

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60	DSP signal processor with USB,AEC for video conferencing and Local enforcement,4 Inputs and 8 Outputs	1	<ul style="list-style-type: none"> • Analog-To-Digital Conversion:24-bit 48 kHz • Digital-to-Analog Conversion: 24-bit 48 kHz • FrequencyResponse:20 Hz to 20 kHz ±0.5 dB • Line/ Mic input: 4 • Line output: 8 • AEC Or better. 	
61	HDMI,Cat6 and USB cables	1	<ul style="list-style-type: none"> • All confronting to the best quality and standards. 	
62	Wireless presentation device with single USB dongle	1	<ul style="list-style-type: none"> • IEEE 802.11 a/g/n Wireless Standards • Up to 3840 x 2160 Input Resolutions • 2.4 GHz and 5 GHz Frequency Band • 2 Hardware Buttons Included 	
63	8x6 Seamless 4K Scaling Presentation Matrix Switcher with built in Control processor	1	<ul style="list-style-type: none"> • All in one 8x6 4K matrix switcher, scaler, audio DSP with AEC, audio power amplifier, and control processor • Two DTP inputs and six HDMI inputs • Two HDMI outputs and four independently scaled DTP outputs • Integrated DTP inputs and outputs support transmission of video, control, and audio up to 330 feet (100 meters) over a shielded CATx cable 	
64	Evidence Storage Shelf	1	<ul style="list-style-type: none"> • Modular in design. • Should have at least 3 lockable shelves. • Stainless steel 	<ul style="list-style-type: none"> • Advance Forensic Room
65	Chairs	2	<ul style="list-style-type: none"> • Ergonomic chair with high back, adjustable arms. • Cast aluminum base. • Recline locking. 	
66	Multifunction Printer	1	<ul style="list-style-type: none"> • Print speed (b&w):21 – 30 	

			<ul style="list-style-type: none"> • Functions: Print scan copy and fax • Ports 1 Hi-Speed USB 2.0; 1 Fast Ethernet 10/100Base-TX; 1 Wireless 802.11b/g/n • Network ready Standard (built-in Fast Ethernet, WiFi 802.11 b/g/n)
67	Ethernet Switch	4	<ul style="list-style-type: none"> • 48 ports Network switch. • All ports should support 10GbE.
68	Power sockets	8	As per Industry Standards
69	Computer Tables	2	As Per industry Standards
70	Phone	1	<ul style="list-style-type: none"> • Digital Cordless Telephone. • 2.4 GHz • Should have minimum 1.8" LCD Display. • Caller ID with minimum 50 Name and Number memory. • 100 Name and Number Phonebook entries. • Talktime – Minimum 10 Hours. • Wall mountable. • Or better.
71	Fire safety Equipment	1	<ul style="list-style-type: none"> • Fire Extinguishers – CO2 Type. • Signage • Smoke Alarms
72	CCTV Camera	1	<ul style="list-style-type: none"> • 2MP 1080p Bullet CCTV Camera. • True Day/ Night Vision. • Metal Housing. • IP66 Rating.
73	Firewall	1	As per Sr No 2. Firewall Specifications. Should be Integrated with Data Center
74	Router	1	<ul style="list-style-type: none"> • Router appliance should have at least 8x GE RJ45, 2xSFP Slot • Router Throughput should be 6 Gbps • Router should support minimum 5 Gbps of VPN throughput • Router should support 200 site-

			<p>to-site & client to site VPN Tunnels.</p> <ul style="list-style-type: none"> • Router should support 40,000 new sessions per second • Router should support 1.5 Million concurrent sessions • Router should support Dynamic routing protocols: RIPv1 and v2, OSPF v2 and v3, ISIS, BGP4 • Router should have 128 GB SSD. • Should be Integrated with Data Center
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2. Firewall Specifications

Firewall should be Hardware based, Reliable, purpose-built security appliance with hardened operating system that he security risks associated with general-purpose operating systems and should have dual internal power supply
Firewall appliance should have at least 16 x 1GE interfaces, 4 x 1GbE SFP slot and 2x 10G SFP+ slot
Firewall Throughput should be 20 Gbps
Firewall should support minimum 10 Gbps of VPN throughput
Firewall should support 2000 site-to-site & client to site VPN Tunnels.
Firewall should support minimum 200 concurrent SSL VPN users and should be scalable in future
Firewall should support 50,000 new sessions per second
Firewall should support 1.5 Million concurrent sessions
The solution should support minimum 1.5 Gbps of NGFW (FW + IPS + AVC) throughput for Mix / production traffic
The solution should support minimum 1 Gbps of Threat Prevention (FW + IPS + AVC + AV) throughput for Mix / production traffic
The Firewall solution should support NAT64, NAT46, DNS64 & DHCPv6
The proposed system should have integrated Traffic Shaping functionality.
The proposed system should support signatures should a severity level defined to it so that it helps the administrator to understand and decide which signatures to enable for what traffic (e.g. for severity level: high medium low)
b) PPTP VPN

c) L2TP VPN

The device shall utilize inbuilt hardware VPN acceleration:

a) IPSEC (DES, 3DES, AES) encryption/decryption

b) SSL encryption/decryption

The system shall support the following IPSEC VPN capabilities:

a) Multi-zone VPN supports.

b) IPsec, ESP security.

c) Supports NAT traversal

d) Supports Hub and Spoke architecture

e) Supports Redundant gateway architecture

The system shall support 2 forms of site-to-site VPN configurations:

a) Route based IPsec tunnel

b) Policy based IPsec tunnel

The system shall support IPSEC site-to-site VPN and remote user VPN in transparent mode.

The system shall provide IPv6 IPsec feature to support for secure IPv6 traffic in an IPsec VPN.

Virtualization

The proposed solution should support Virtualization (Virtual Firewall, Security zones and VLAN). Minimum 5 Virtual Firewall license should be provided.

Intrusion Prevention System

IPS throughput should be minimum 2.5 Gbps for Mix / Production traffic

The IPS detection methodologies shall consist of:

a) Signature based detection using real time updated database

b) Anomaly based detection that is based on thresholds

The IPS system shall have at least 10,000 signatures/As per Industry Standards

IPS Signatures can be updated in three different ways: manually, via pull technology or push technology. Administrator can schedule to check for new updates or if the device has a public IP address, updates can be pushed to the device each time an update is available

In event if IPS should cease to function, it will fail open by default and is configurable. This means that crucial network traffic will not be blocked and the Firewall will continue to operate while the problem is resolved

IPS solution should have capability to protect against Denial of Service (DOS) and DDOS attacks. Should have flexibility to configure threshold values for each of the Anomaly. DOS and DDOS protection should be applied and attacks stopped before firewall policy look-ups.

IPS signatures should have a configurable actions like terminate a TCP session by issuing TCP Reset packets to each end of the connection, or silently drop traffic in addition to sending a alert and logging the incident

Signatures should a severity level defined to it so that it helps the administrator to understand and decide which signatures to enable for what traffic (e.g. for severity level: high medium low)

Antivirus

Firewall should have integrated Antivirus solution

The proposed system should be able to block, allow or monitor only using AV signatures and file blocking based on per firewall policy based or based on firewall authenticated user groups with configurable selection of the following services:

- a) HTTP, HTTPS
- b) SMTP, SMTPS
- c) POP3, POP3S
- d) IMAP, IMAPS
- e) FTP, FTPS

The proposed system should be able to block or allow oversize file based on configurable thresholds for each protocol types and per firewall policy.

Web Content Filtering

The proposed system should have integrated Web Content Filtering solution without external solution, devices or hardware modules.

The proposed solution should be able to enable or disable Web Filtering per firewall policy or based on firewall authenticated user groups for both HTTP and HTTPS traffic.

The proposed system shall provide web content filtering features:

- a) which blocks web plug-ins such as ActiveX, Java Applet, and Cookies.
- b) Shall include Web URL block
- c) Shall include score based web keyword block
- d) Shall include Web Exempt List

The proposed system shall be able to queries a real time database of rated websites categorized into unique content categories.

Application Control

The proposed system shall have the ability to detect, log and take action against network traffic based on application signatures

The application signatures shall be manual or automatically updated

The administrator shall be able to define application control list based on selectable application group and/or list and its corresponding actions

High Availability

The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component

The device shall support stateful session maintenance in the event of a fail-over to a standby unit.

High Availability Configurations should support Active/Active or Active/ Passive

Logs and Report

Should have Hard Drive Capacity for logging and reporting

Real-time display of information allows you to follow real-time trends in network usage such as the source IP address and the destination URL for HTTP traffic.

3. Item 1: Password Recovery Software specifications:

- Should support cloud data acquisition Acquires backups and data from cloud services (Apple iCloud, MS OneDrive, and Dropbox). Extracts passwords from iCloud keychains.)

to be changed as:

- *Should support cloud data acquisition Acquires backups and data from cloud services (as per the supported Cloud Services by OEM)*

4. Item 2 : Network Forensic and Analysis Toolkit

6. Forensic Image File formats - Should support following types of forensic image formats. a. For Physical Imaging
i. E01 b DD (RAW) i. Logical ii. LO

to be changed as:

6. *Forensic Image File formats -*

➤ *Should support following types of forensic image formats.*

a. For Physical Imaging

i. E01

ii. DD (RAW)

b. For Logical Imaging

i. L01 or Lx01

10. Network tapping Module

11. Mode of operation

12. Analysis Software

7.

➤ Should support temporarily or permanently removal of HPA/DCO

➤ Should Supports S.M.A.R.T. disk info

➤ Should support Various wiping standards like Clear Partition Table, Quick Erase, Custom

➤ Erase, Secure Erase Normal, Secure Erase Enhanced, DoD Clear, DoD Sanitize, NIST800-88 Clear, NIST800-88 Purge

➤ Should support imaging to a remote network location or share.

to be changed as:

➤ *Should support temporarily or permanently removal of HPA/DCO*

➤ *Should Supports S.M.A.R.T. disk info*

➤ *Should support Various wiping standards*

➤ *Should support imaging to a remote network location or share.*

5. Item no 9-Advance Mobile Forensic Kit

The solution should have option for a technical solution for dealing with non-standard mobile devices, typically these are cheaper clone phones where the forensic challenge is the connector pin-outs, which vary and may not even be known.

The solution should provide interface cable, binder, adapter kit consists of at various Tips, power cable alligator, power cable clips, power cable PCB, and voltage reduction adapter.

The solution should powered by a software solution which is regularly updated, which means it improves over time. Thus avoiding the perils of separate black box solutions with frozen firmware that goes out of date as soon as they are purchased.

6. Item No.: 13, Forensic Data Center

Sr No	Module	Feature	Specifications	Complied Y/N
1.	Server Module	Chassis	42U Rack with all Modules should be integrated as Single Solution	
		Processor	Dual Intel Xeon 4110 2.1 GHz 8 core CPU, 11 MB cache	
		Chipset	Intel C621	
		Memory	128 GB PC4-21300 DDR4 2666 MHz ECC	
		Server OS	SUSE Linux Enterprise Server	
		Data Storage	100 TB internal RAID array (80 TB RAID 6, 10 x 10TB drives)	
		DVD/ CD/ Blu-ray	BD-R/BD-RE/DVD±RW/CD±RW Blu-ray burner, dual-layer combo drive	
		Networking	2 port Intel 10 GbE network adapter (RJ45 copper)	
		Connectors	6 USB 3.1 ports 10 USB 3.0 ports 4 USB 2.0 ports	
		Power Supply	1200-Watt modular power supply	
		Form Factor	4U Rackmount	
		Processor	Intel Core i7-9800X 3.8/4.4 GHz 8 Core CPU, 16.5 MB cache	

2.	Workstation Module	Chipset	Intel X299	
		Memory	64 GB PC4-21300 DDR4 2666 MHz	
		Operating System	Microsoft Windows 10 Pro 64-bit	
		Data Storage	<ul style="list-style-type: none"> Operating System - 512 NVMe SSD Database/Cache/Temp – 512 GB SSD SATA III Case/DATA – 2TB 7200 RPM SATA III 	
		Drive Bays	<ul style="list-style-type: none"> 4 x 2.5" SATA drive bay chassis 1 x 2.5/3.5" SATA, shock mounted, removable 1 x hot-swap USB 3.1 connected SATA, shock mounted, removable 	
3.	Display Module	DVD/CD/Blu-ray	BD-R/BD-RE/DVD±RW/CD±RW Blu-ray burner, dual-layer combo drive	
		Forensic Imaging/Write blocking	<i>UltraBay 4d/Equivalent</i> forensic bridge – write blocks SATA, SAS, IDE, USB 3.0/2.0/1.1, FireWire, and PCIe SSD storage devices	
			Touch screen UI support local, on-screen access to device information:	
		Storage Media	LUN selection Management of protected regions File system partitions (independent of OS) Supports simultaneous and sequential forensic imaging. Hot swapping on all but PCIe devices	
		Drive Cooling	Retractable imaging work-shelf and cooler	
		Networking	<ul style="list-style-type: none"> Dual Intel 10/100/1000 Mbps gigabit Ethernet adapters 	

		Connectors	<ul style="list-style-type: none"> • 2 USB 3.1 Type C ports • 3 USB 3.1 ports • 11 USB 3.0 ports • 4 USB 2.0 Type C ports 	
		Storage Controllers	<ul style="list-style-type: none"> • 8 x Intel 6 Gb/s SATA controller • 2 x Intel M.2 x 4 PCIe Socket • 2 x U.2 connector 	
		Audio	Realtek ALC2250 8-channel high-definition audio CODEC featuring Crystal Sound 2	
		Power	1200-Watt modular power supply	
		Form Factor	4U Rackmount	
		Monitor/ Keyboard	19-inch LCD Rackmount display with integrated keyboard / Trackpad KVM 8 port KVM switch with IP remote access	
		Cables	KVM cable set – 2 USB, 1 P/S2	
		Form Factor	1U Rackmount	
4.	Management Utilities		Image Management	
			Drive Mapping	
			Disaster Recover	
			Remote Forensic Access Software	
			Notifies designated parties of a system warning or critical event	

5.	GPU Module	GPUS	GPU based decryption module. Includes 4 NVIDIA GeForce GTX 2080Ti graphics acceleration cards.	
		CUDA Cores	Minimum 4352 per GPU Card with total 17408 CUDA cores	
		Liquid Cooling	Double-sided full cover water blocks with 1 CPU water block software	
		CPU, RAM,OS, Storage, Network	Intel i9-9900K CPU, 8 cores, 3.6 GHz (5.0 GHz turbo boost), 16 MB Smart Cache RAM: 32GB, DDR4 26666 MHz, non-ECC Storage Controller: 2x SATA III 6 Gb/s ports Storage: 2.5 inch SATA III SSD 256 GB, 3.5 inch SATA III 1 TB HDD 7200 rpm Network connectivity: 1 LAN 1000 Mbps Windows 10 Pro	
		Form Factor	4U Rackmount	
6.	Network Module	Switch	<ul style="list-style-type: none"> • 10 Gigabit copper • 1 fully managed, line-rate 10G copper Base-T switch. • Supports up to 48 10G Base-T RJ45 and 4 SFP+ port 	
		Patch Panel	Two (2) 24 port CAT 6A for a total of up to 48 panel ports	
		Cables	Two (2) x 25 x 1 ft. for a total of 50 cables	
		Form Factor	3U Rackmount	
7.	Power Backup Module	UPS	Should be provided with Rackmount UPS to provide immediate backup for 15 -20 Minutes for losing data during transition period of alternate backup minutes	

			2U/ 3U/ 4U Rackmount	
8.	System Backup Module	Tape Changer	LTO-8 Ultrium Drive, 24 slot library, SAS interface	
		Media Set	LTO-8 media 12 data media cartridges (12TB / 30TB capacity)	
		Software	Compatible backup software	
		Form Factor	2U Rackmount	
9.	RAID/ SAN Module	Internal RAID	Master Unit – 240 TB RAID array module (220 TB RAID 6) 24 bay, RAID enclosure (multilane SAS attached) 24 x 10 TB 7200 RPM HDDs in hot-swap Removable trays	
		Power	Dual redundant 460-Watt power supplies	
		Form Factor	3U Rackmount	
10.	Warranty		Product should be existing Product at the time of Bidding with Minimum 3 Installations in India	
			Product should not be assembled System. Should <i>have at-least 2-3 Components which are marked by OEM Name preferably on the various PCB's used in the offered solutions</i>	
			Bidder should have OEM trained Manpower for Product Installation and support, supporting document for the same to be attached	
			Product Installation and 1 Day Orientation online or onsite training to be conducted by OEM/ Manufacturer of the Product not by	

			the Bidder in case Bidder is not the OEM/ Manufacturer	
			3 Years with all Software/ Firmware Updates	

7. Item No 6 ,Pg 72

Requirements

Proposed system must provide the following capabilities:

- Able to provide end to end evidence management and workflow management capabilities as SaaS-based system
- Able to allow the users to store, manage, share and review investigative evidence
- Able to provide secure web-based, barcode driven, evidence and laboratory management capabilities
- Able to allow agencies to enforce their SOPs, lab processes and flows
- Able to provide dashboards to users which can guide them to streamline and simplify the workflow process and allow filtering, searching and export capabilities on the evidence
- Able to allow end-to-end chain of custody tracking of the evidence
- Able to provide capabilities to manage evidence of all types from different type of sources by providing a single customizable and comprehensive system
- Able to provide a dashboard which should be simple to understand and intuitive to the user which allows him the retention control to identify the old evidence immediately
- Able to allow the users to share the evidence and reports immediately while providing complete user management control to allow addition of new users to the system and also to assign roles and permissions to these users
- Able to provide an automatic report generation capability along with capability to drag and drop digital pictures into the narrative reports.
- Able to provide a secure web portal which allows management of relationship between examiner and investigator for better coordination
- Able to provide comprehensive and customizable forensic evidence management solution for both physical and digital evidence
- Able to provide robust evidence management with barcode driven capability to provide end to end chain of customer view to the system users

- Able to use smart device cameras instead of the barcode scanner during transactions to make it easier for the users
- Able to allow capabilities like security auditing, evidence auditing and quality control
- Able to be deployed in a high-security cloud infrastructure with support for strong password and two factor authentication
- Able to allow collection of electronic signatures during transactions
- Able to provide lab assignment management with real-time monitoring of the lab submission status
- Able to support streamlined analysis workflow with unlimited scalability based on the future expansion requirements
- Able to allow technical/peer review at any desired internal and allow final review/ approval capability
- Able to allow users to add case notes and allow tagging of events for better collaboration between stakeholders
- Able to allow storage logging and threshold notification
- Able to support evidence location arrival / stale notifications
- Able to provide comprehensive audit logs
- Able to provide evidence auditing capability which should allow per location, random item sampling, random location with certificate of successful audit
- Able to provide a secure investigator portal for work product sharing
- Able to allow management of different stakeholders like peers, prosecutors, defence attorney and plaintiff attorney
- Able to allow immediate review of the evidence by the concerned stakeholder with appropriate permission level
- Able to allow review of evidence in specific reports directly in the browser, with no requirement of downloading it

8. Form B.4 –Precontract Integrity Pact

This pre-contract agreement (hereinafter called the “Integrity Pact” or “Pact”) is made on <<day>> of <<month, year>>, between, on one hand, the President of India acting through <designation and department> Purchaser (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

M/s <<bidder’s legal entity >> represented by <<name and designation>> (hereinafter called the “BIDDER/Seller”, which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to engage the Implementing Agency for implementation and operations management of the Project and the BIDDER is willing to offer/has offered the services and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the BUYER to obtain the desired services at a competitive price in conformity with the defined specification by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will

demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organisation or third party related to the contract in exchange for an

advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract. The BUYER will, during the pre-contract stage, treat all the BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information

to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1. All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of the BIDDER

3. The BIDDER commits itself to take all the measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:- The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour or any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or

having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or dis-favour to any person in relation to the contract or any other contract with the Government.

BIDDER shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

The BIDDER further confirms and declares to the BUYER that the BIDDER has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

If the BIDDER who is involved in the bid process or any employee of such BIDDER or any person acting on behalf of such BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of BUYER who is involved in the bid process has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions,

directly or indirectly, with any employee of the BUYER.

For the purposes of clauses 3.11 & 3.12, the listed words shall have the ascribed meanings as follows:

- i) “Employee of such BIDDER or any person acting on behalf of such BIDDER” means only those persons acting on behalf of such Bidder who are involved in the bid process / Project.
- ii) “officers/employee of the BUYER”, means only those persons who are involved in the bid process / Project.
- iii) “Financial interest/stake in the BIDDER’s firm” excludes investment in securities of listed companies”.

5. Earnest Money(EMD)

The Bidder’s EMD of Rs. <value> deposited along with the bid shall remain valid till the submission of performance guarantee by the BIDDER.

In case of the successful BIDDER, a clause would also be incorporated in the Performance Bank Guarantee that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

Within 21 days of the receipt of notification of award from the employer, the successful Bidder shall furnish the performance security equal to <10 per cent> of the value of contract from a commercial bank in accordance with the conditions of

Performance security should remain valid from date of execution of Contract to the expiry of 60 days after the date of completion of all contractual obligations including warranty obligations.

No interest shall be payable by the BUYER to the BIDDER on Earnest Money/ Performance Security for the period of its currency.

6. Sanctions for Violations

Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Performance Security (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be require to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing prime lending rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilised to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- (vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or

acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. Fall Clause

The BIDDER undertakes that under similar buying conditions, it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar

product/systems or subsystems was so supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitors

Shri <Name> has been appointed as Independent External Monitor (hereinafter referred to as Monitor) for overseeing and implementation of the Pre-Contract Integrity Pact for procurement of services in the <Purchaser's entity>. His contact details are as under:

<Name>

<Address>

<Contact details>

The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.

The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to

Treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.

The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER/BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is New Delhi.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

The validity of this Integrity Pact shall be from date of its signing and extend upto <X years> or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER, including warranty period, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of signing of the contract.

Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at on

Buyer	BIDDER
Name of Officer	CHIEF EXECUTIVE OFFICER
Designation	
Dept/Ministry/PSU	
WITNESS	WITNESS
1.	1.
2.	2.



9. Annexure II- Service Level Agreement-Pg 111

- Maximum penalty on non compliance to the SLAs would be **10 %** of Contract Value

	Metric	Baseline		Lower Performance		Breach		Dependency	Measurement
		Metric	Score	Metric	Score	Metric	Score		
A	DF Lab Infrastructure		40						
	Infrastructure Availability Uptime and Availability of Datacenter and Infrastructure	>99.5 %	40	>99% & <=99.5%	35	<99%	30	NA	IA shall ensure that all relevant events are Logged and such Logs are made accessible to the NeGD for review report in a readable format.



4	<p>Monthly-SLA Monitoring</p> <p>Average of the day-wise uptime of each appliance shall be taken for the arriving at the monthly score for Infrastructure</p>								
	<p>Quarterly- SLA Monitoring</p> <p>Average of the month-wise scores for each appliance shall be taken for the quarterly Score</p>								



Metric	Baseline		Lower Performance		Breach		Dependency	Measurement
	Metric	Score	Metric	Score	Metric	Score		
<p>Manpower availability measures the Availability of the required skill sets as proposed by the IA in its proposal. This parameter shall also take into account the quality of resources in terms of skill set, experience and ability to perform in similar environment besides deployment on the project. In case of replacements, the new resource should be of similar or higher skill set.</p>	No Deviation	30	In case of 1 Deviation	25	More than 1 Deviation	20	<p>Skillsets that can be taken into account for measuring this Parameter include:</p> <ul style="list-style-type: none"> • Key Personnel for each of the areas • Deployed personnel possessing the skills 	All Deviations would be recorded and MIS report shall be made available to the NeGD



required for carrying out the activities of the project Quarterly SLA Monitoring										
C	Training & Capacity Building									
	The Training and Capacity building satisfaction will be measured by feedback rating given by the trainees during the training. Quarterly-SLA Monitoring Average rating must be achieved above the specified rating score for more than 80% of the feedback ratings received	Rating >=80 %	30	Rating < 80% and rating >=70%	25	Rating <70%	20	Participant attendance Availability of training facilities		Feedback rating given by the trainees during the training.



- **SLA is Indicative only .It may be Revised to Comply with MeitY Norms**



10. Scope of Work -Pg 22- Licenses

11. Academic Licenses with full functionality to be provided for Tools and solutions supplied by Implementing Agency Wherever applicable.
12. If Academic Licenses are not available. Supporting Documentation from OEM may be provided.

11. Payment Terms, Pg 137-139

Sr No	Milestone	Billable Fee % for Forensic BOM(as Per Form D.1)
1.	4	40% cost of DF Hardware & Software(System/COTS) except ATS(Annual Technical Support)on acceptance of Delivery by NeGD
2.	5	20% cost of DF Hardware & Software(System/COTS) except ATS(Annual Technical Support)on acceptance of Delivery by NeGD
3.	10	20% cost of DF Hardware & Software(System/COTS) except ATS(Annual Technical Support)on acceptance of Delivery by NeGD
4.	Go -Live	20% cost of DF Hardware & Software(System/COTS) except ATS(Annual Technical Support)on acceptance of Delivery by NeGD
	Milestone	Billable Fee % of Infrastructure BOM(as Per Form D.1)
5.	6	40% cost of Infrastructure as per BOM except ATS
6.	8	20% cost of Infrastructure as per BOM except ATS
7.	10	20% cost of Infrastructure as per BOM except ATS
8.	Go-Live	10% cost of Infrastructure as per BOM except ATS
9.		10% Cost of Infrastructure as per BOM except ATS on resolution of outstanding issues not critical to Go-Live
		Billable Fee % of Implementation Service(as Per Form D.1)
10.	10	40 % Cost of Implementation Service
11.	Go-Live	40% Cost of Implementation Service
12.		20% Cost of Implementation Services will be paid on resolution of Outstanding issues which are not critical to Go-live
Operation & Maintenance-3 Years		
13.	Annual Technical Support	Annually
14.	IT Infrastructure Management	2 Equal installments in year at End of 6 months Period



15.	Annual Warranty Services	Annually
16.	Manpower Services	Four Equal Installments Per Year at End of every Quarter
17.	Training and Capacity Building	Two Equal installments in Year at End of 6 months Period

12. Form D.4 , Commercial Bid Format, Point 4-Infrastructure BOM

Sr.No	Items	Quantity
1	IPAD for control purpose	1
2	Contactless Access Control Solution	1
3	Whiteboard	1
4	65 inches LED4K Commercial Display	3
5.	Goggle Camera Full HD	2
6.	Camera(USBandHDMI,FHD,12xZoom,PTZcamera)	2
7.	2 x USB input and HDMI output	1
8.	Audio Conferencing System Wall mounting	1
9.	CCTV Camera	2
10.	Curved40-inchTV	2
11	2 Ethernet Switch	2
12	Cat6 Cabling	1
13	Power Socket	2
14	Wearable Storage Unit	1
15	Contactless Access Control System	1
16	CCTV Camera	1
17	Chairs	4
18	UPS	1
19	Shoe Rack	1
20	Wall Mount Shelf	1
21	Evidence Storage Rack	1



22	Clothing Rack	1
23	PowerSockets	4
24	Wallmount Donor drive shelf	1
25	Active LED/LED	1
26	Pointer	1
27	Demo Unit table	1
28	Cabinet	1
29	Power Sockets	40
30	Desktop Computers/Thin Clients	25
31	Base System- Presenter Tracking System(black)	1
32	Presentation Camera	1
33	AV Bridge	1
34	Interactive Podium	
35	HDMI and USB cables	1
36	UPS	1
37	Industrial Sockets 3 pin 16/32Amp	
38	Fire Safety Equipment	1
39	CCTV Camera	1
40	Contactless Access Control Solution	1
41	Evidence Table	1
42	Chairs	9
43	Evidence Storage Shelf	1
44	Cabling & Installation Charges	
45	CAT-6Cabling	
46	Wi-Fi Access Point	1
47	Projector Screen	1



48	Case Management System Table	1
49	Evidence Shelf	1
50	File Cabinet	1
51	Centralized Display	2
52	Access Control System	1
53	CCTV Camera	1
54	CCTV Camera Management System	1
55	Chairs	13
56	Projector	1
57	Screen	1
58	Demo Unit table	1
59	Wi-Fi Access Point	1
60	DSP signal processor with USB,AEC for video conferencing and localenforcement,4inputsand8outputs	
61	HDMI,Cat6andUSBCables	1
62	Wireless presentation device with single USB dongle	1
63	8x6 Seamless 4K Scaling Presentation Matrix Switcher with built in Control processor	1
64	Evidence Storage Shelf	1
65	Chairs	2
66	Multifunction Printer	1
67	Ehernet Switch	4
68	Power sockets	8
69	Computer Tables	2
70	Phone	1
71	Fire safety Equipment	1
72	CCTV Camera	1
73	Firewall	1
74	Router	1



13. 2.1,Pg 7,Basic Information

- Bidder Means as Per “MANUAL FOR PROCUREMENT OF CONSULTANCY & OTHER SERVICES 2017”