GOVERNMENT OF INDIA
(Ministry of Home Affairs)
DIRECTORATE GENERAL
CENTRAL RESERVE POLICE FORCE
EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066
(Email:- comncell@crpf.gov.in Tele/Fax:011-26107493)

No. B.V-7/2021-22-C (CFL) Dated, the 19th April'2021

To

1. DIG (Comn), ITBP
   Block No. 2, CGO Complex
   Lodhi Road, New Delhi-03

2. DIG (Comn), NSG
   Meharam Nagar
   Palam, New Delhi-37

3. DIG (Comn), SSB
   East Block-V, R.K Puram
   New- Delhi-66

4. AIG (Comn), CISF
   Block No. 13, CGO, Complex
   Lodhi Road, New Delhi-03

5. DIG (Prov), BSF
   Block No. 10, CGO Complex
   Lodhi Road, New Delhi-03

6. Liaison Office, Assam Rifle
   Room No-171, North Block, MHA
   New Delhi -01

Subject: **Regarding QRs/TDs of "Cyber Forensic & Auditing Tools for Creation of Cyber Lab".**

Please find enclosed QRs/TDs of "Cyber Forensic & Auditing Tools for Creation of Cyber Lab" as Annexure-"A" duly approved by the competent authority is forwarded herewith for further necessary action.

Encl: (QRs & TDs of "Cyber Forensic & Auditing Tools for Creation of Cyber Lab")

{P.R.Jha, DC (Comn)}
For DIG (Equipment)
Directorate General, CRPF

No. B.V-7/2021-22-C (CFL) Dated, the April' 2021

Copy to:-

1. DIG(IT) Dte, for information please.
2. DIG(Int) Dte, for information please.

{P.R.Jha, DC (Comn)}
For DIG (Equipment)
Directorate General, CRPF

QUALITATIVE REQUIREMENTS OF CYBER FORENSIC & AUDITING TOOLS FOR CREATION OF CYBER LAB

S N	Parameter	Specifications
A)	**WORK STATION FOR STATIC BENCH**	
1	Processor CPU	2 (Dual) Intel XEON Processor Silver 4110 8Core 2.1 GHz 11 MB Cache or latest.
2	RAM	Minimum RAM 128 GB and upgradable upto 768 GB
3	HDD –Internal	• OS Drive: 512 GB M.2 NVMe PCIe Solid State Drive - Pro Series or higher • Drive 2 - SATA Interface: 512 GB SATA Solid State Drive - Pro Series or higher • Drive 3 - USB 3.1 Interface: 4 TB 7200 rpm SATA Hard Drive or higher • (RAID Drive as per the user requirement)
4	Computer case	ATX Server Case as per end user requirement with inbuilt write blockers, HDD, bays and with hot swappable capabilities.
5	Power supply	1200 Watt Modular power supply ATX or better
6	Main board	Intel chipset motherboard which supports user defined processor, RAM and other components.
7	Graphic card	As per user requirement.
8	Optical Drives	As per user requirement.
9	Forensic Bridge	Forensic Universal Bridge USB3.0 &PCIe &SATA &FireWire &IDE &SAS incl. all user mentioned cables and adopters having latest technologies as per end user requirement.
10	Display	As per user requirement.
11	Software	As per user requirement.
B)	**IMAGING / CLONING DEVICE**	
1	Imaging Cloning Device	Portable kit which contains a complete family of hardware write blockers along with adapters and connectors
2	Connectors	IDE/SATA/SAS/USB3/Fire Wire/PCIe
3	Connectivity	All connectivity on Host side should be USB3 or better
4	Memory card reader	02 (one for read and other read-write) or better
5	Power supply	Cable and adapters

S N	Parameter	Specifications
6	Specifications	• High performance, reliable, and easy to use forensic duplicator - with a high resolution, touch screen User Interface (UI) or better. • It should support forensic imaging of SATA, USB 3, PCIe, SAS, Fire Wire 800, IDE, and network shares or better. • Outputs to SATA, USB 3, SAS, and network shares or better. • Supports up to two active forensic jobs at a time (simultaneous imaging) or better. • Supports up to four destinations per source with the ability to mix clone/image duplication and local/network destinations or better. • Job queuing option for efficiency and convenience or better. • Disk-to-File Duplication (Compressed .e01 & .ex01), Disk-to-Disk Duplication (Cloning), Compute Hash Values, Verify Hash Values, HPA/DCO Disable, Blank Check Drives, Format Drives, Wipe Drives, Display, Print, and Save Logs, Secure User Profiles or better. • High-resolution, color touch screen user interface, used to control and monitor ongoing operations wizard driven UI uses simple touch gestures to select and initiate all functions or better. • Supports collecting data in a forensically sound (a.k.a. "write-blocked") manner or better. • Network based forensic acquisitions, remote triage applications, or network based "write blocking"or better.
7	Adapters & cables	a) mSATA / M.2 to SATA Adapter Kit b) Blade Type SSD Adapter c) SATA LIF Adapter d) micro SATA e) 1.8" IDE Laptop Adapter f) 2.5" IDE Laptop Adapter g) ZIF IDE Adapter h) PCIe Card SSD Adapter i) PCIe M.2 SSD Adapter j) PCIe Apple SSD Adapter

S N	Parameter	Specifications
		k) Thunderbolt to Firewire Adapter and USB C to USB Cable for Mac acquisition. or Any other adopter and cables required by the user.
8	Water resistivity	All of content of the kit should be skilfully bundled in a rugged pelican waterproof case perfect for field or lab acquisition.
C)	**FARADAY BOX**	
1	The patented industry standard for forensics visual and hands-on interrogations.	
2	Provides maximum isolation from all UMTS mobile device bands.	
3	Provides maximum isolation from Wi-Fi signal sources including 802.11a/b/g/n/ac.	
4	Features the latest GEN-2 custom RF gasket system.	
5	Features the latest GEN-2 custom RF absorbent and reflective foam liner.	
6	Large RF shielded viewing window for visual real-time confirmation of device displays and functions.	
7	Dual RF shielded silver mesh tactile gloves for hands-on access to devices.	
8	Built-in internal LED illumination.	
9	Built-in RF filtered AC power strip.	
10	High speed USB2.0 data interface.	
11	Forensics tamper-proof hardware and a dual pad-lockable latches prohibits unauthorized access and maintains the chain of custody.	
12	Universal removable I/O panel customizable for your specific applications.	
13	Features	Designed for lab and bench visual forensics interrogations Patented design RF tight hands-on access to your device RF tight illuminated viewing of your device 1/2" GEN-2 high efficiency RF foam liner GEN-2 high efficiency RF gaskets Exclusive double lip RF seal Universal removable I/O panel

S N	Parameter	Specifications
14	Connectors	RF isolated 6-outlet 110VAC power stripRF isolated 6-pole feed-though terminal blockRF isolated USB2.0 high speed interface
15	Isolation	>90dB @ 918MHz >85dB @ 2.4GHz >80dB @ 5.8GHz
D)	**FLAME PROOF LOCKER**	
1	Capacity	Minimum 60 L
2	Locking System	Lever high security Cylindrical Locks. Snap shut mechanism
3	Certification	Data protection as per IS: 14562 for 1 hour fire endurance and 1 hour fire & impact test.
4	Total Memory slots	Designed as per UL-72 Class 125 specifications for 1 hour rating.
5	Type	Flame Resistant
E)	**MOBILE FORENSIC SOFTWARE**_(as per user requirements)	
	Mobile forensic software contains:- 1. UFED 4 PC/Touch 2 2. MSAB XRY 3. MD NEXT and MD RED 4. Oxygen Forensic 5. Mobile edit forensic express pro or any other /additional latest available software and add on modules as per user requirement.	
F)	**PORTABLE FORENSIC WORKSTATION**	
10	Connections	a) HDMI Port b) Display Port 1.4 over USB 3.2 Gen 2 (Type C) c) USB 3.2 Gen 2 Ports (Type A) d) USB 2.0 Port (Type A) e) Headphone jack (2-in-1) Headphone/S/PDIF Optical) f) Microphone jack g) Line-In jack h) Line-out jack i) RJ-45 Port j) DC-in or any other ports required by the user

S N	Parameter	Specifications
11	Software	As per user requirement
12	Forensic Imaging Tools	As per user requirement
G)	**WRITE BLOCKER KIT**	
1	Portable kit which contains a complete family of hardware write blockers along with adapters and connectors for use in acquiring a forensically sound image of virtually any hard drive or storage device	
2	Includes USB 3.0 IDE/SATA, SAS, USB3, FireWire, Forensic Card Reader, Two Power Supplies, Cables and Adapters.	
3	USB 3.0 to IDE+SATA	
4	SAS	
5	USB 3.0 to USB 3.0	
6	FireWire	
7	FCR	
8	Power supply with line cord	
9	IDE signal cable 8"	
10	IDE signal cable 2"	
11	SATA signal cable	
12	3M to Molex Power Cable	
13	3M to SATA Power Cable	
14	SAS integrated signal and 3M power cable	
15	USB-A to 5 pin Mini-B	
16	USB 3.0 A to B cable	
17	FW800 Cable 9p-9p	
18	FW800 Cable Adapter 4p-9p	
19	FW800 Cable Adapter 6p-9p	
20	Hard Drive Adapter 2.5"	
21	Hard Drive Adapter 1.8"	
22	ZIF Hard Drive Adapter	
23	Micro SATA Adapter	
24	SD Micro and Mini Memory Card Adapters	
25	Rugged case with custom foam insert	

S N	Parameter/Specifications
H)	**DATA EXTRACT AND DECODE SOFTWARE FOR NON-STANDARD MOBILE PHONES**
1	Should be all-in-one mobile forensic system.
2	Should combine both mobile phone logical and physical solution in one package
3	Should allow investigator full access to all the possible method to recover data from a mobile device.
4	Should be software based solution, complete with all necessary hardware for recovering data from mobile device in a secure manner and go deeper in to a mobile device to recover vital data.
5	Should have a combination of logical and physical analysis tool available for supported device.
6	Should produce a combine report containing both live and deleted data from the same handset.
7	Should perform simultaneous operations like extraction, decoding and analysis, on a single platform.
8	Should include multiple mobile phone extraction capability simultaneously at-least up to 3 devices.
9	Should be able to recover deleted data e.g. contacts, image, SMS, emails, VOIP Call Data, video, GPS locations etc.
10	Should be able to decode mobile Apps such as Viber, WhatsApp, Skype, Facebook messenger, QQ, etc.
11	Extraction should support acquisition of internal memory and removable media.
12	Extract data from variety of non-standard mobile devices including Chinese Chipsets.
13	Should generate hex-dumps from the phone memory, typically by bypassing the device operating system.
14	Physical extraction allows users to generate hash values of the memory image, as well as individually decoded files.
15	Should support GPS Device Physical extraction and Examinations.
16	Should have Triage Mode.
17	Should allow search of data either by specific parameters or open text.
18	Should able to clone SIM cards Mini/ Micro/ Nano.

S N	Parameter/Specifications
19	Should have Write Protected Universal Memory Card Reader.
20	If should automatically generates an audit trail of the forensic process for peer review.
21	It should recover VOIP call data, GPS mapping information and instant messaging logs.
22	Should have Report Generator to generate and customize reports in different formats e. g. PDF, HTML, XML and Excel.
23	Product Offered should be of International Repute & Brand.
24	Should extract and decode data from non-standard mobile devices.
25	Able to extract evidence from mobile device where a screenshot is the only way to capture relevant evidence and help validate device extraction results.
26	Should have viewing capabilities: Geographic view, Chat view, Timeline view and Connection view.
27	Zoom in or out to focus analysis on any point in time using the Timeline view.
28	Navigate data by location. Find places of interest and investigate the data connected to those places - such as calls made or received, pictures taken and more using Geographic view.
29	Track chat threads from different apps such as WhatsApp, I Message, Facebook messenger and others using Chat view.
30	Discover and investigate the interactions between different device owners and accounts using Connection view.
31	Indian Distributor/ Reseller/ Bidder should have OEM trained manpower for training of the product.

S N	Parameter/Specifications
I)	**DISC FORENSIC SOFTWARE**
	Disc Forensic software contained tools:- 1. BELKASOFT X 2. Magnet Axiom 3. FTK 4. Encase Forensic 5. Forensic Explorer or any other /additional latest available software and add on modules as per user requirement.

(G.Rajan), AC
SSB

(B.S.Rathore), Team Cdr
NSG

(Madhvendra Singh), DC
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DCPW

(J.S.Sikarwar), DC
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(P. R. Jha), DC(Comn)
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(Yogesh Sharma), Asst.Dir
BPR&D

(Col.Omkar Singh)
Assam Rifles

(Harjinder Singh)
DIG(Eqpt),CRPF

(Virendra Agrawal)
DIG(Comn), CRPF

(Ravideep Singh Sahi), IG(Comn &IT)
CRPF

(Zulifiquar Hasan), IPS,ADG(HQ)
CRPF

Approved/Not Approved

16/4/21

Kuldiep Singh, IPS
DG, CRPF

TRIAL DIRECTIVES OF CYBER FORENSIC & AUDITING TOOLS FOR CREATION OF CYBER LAB

S N	Parameter	Specifications	Trial Directives
A)	**WORK STATION FOR STATIC BENCH**		
1	Processor CPU	2 (Dual) Intel XEON Processor Silver 4110 8Core 2.1 GHz 11 MB Cache or latest.	BOO will check practically and firm will submit OEM certificate.
2	RAM	Minimum RAM 128 GB and upgradable upto 768 GB	BOO will check practically and firm will submit OEM certificate.
3	HDD – Internal	• OS Drive: 512 GB M.2 NVMe PCIe Solid State Drive - Pro Series or higher • Drive 2 - SATA Interface: 512 GB SATA Solid State Drive - Pro Series or higher • Drive 3 - USB 3.1 Interface: 4 TB 7200 rpm SATA Hard Drive or higher • (RAID Drive as per the user requirement)	BOO will check practically and firm will submit OEM certificate.
4	Computer case	ATX Server Case as per end user requirement with inbuilt write blockers, HDD, bays and with hot swappable capabilities.	BOO will check practically and firm will submit OEM certificate.
5	Power supply	1200 Watt Modular power supply ATX or better	BOO will check practically and firm will submit OEM certificate.
6	Main board	Intel chipset motherboard which supports user defined processor, RAM and other components.	BOO will check practically and firm will submit OEM certificate.
7	Graphic card	As per user requirement.	BOO will check practically and firm will submit OEM certificate.

S N	Parameter	Specifications	Trial Directives
8	Optical Drives	As per user requirement.	BOO will check practically and firm will submit OEM certificate.
9	Forensic Bridge	Forensic Universal Bridge USB3.0 &PCIe &SATA &FireWire &IDE &SAS incl. all user mentioned cables and adopters having latest technologies as per end user requirement.	BOO will check practically and firm will submit OEM certificate.
10	Display	As per user requirement.	BOO will check practically and firm will submit OEM certificate.
11	Software	As per user requirement.	BOO will check practically and firm will submit OEM certificate.
B)	**IMAGING / CLONING DEVICE**		
1	Imaging Cloning Device	Portable kit which contains a complete family of hardware write blockers along with adapters and connectors	BOO will check practically.
2	Connectors	IDE/SATA/SAS/USB3/ FireWire/PCIe	BOO will check practically.
3	Connectivity	All connectivity on Host side should be USB3 or better	BOO will check practically.
4	Memory card reader	02 (one for read and other read-write) or better	BOO will check practically and firm will submit OEM certificate.
5	Power supply	Cable and adapters	BOO will check practically and firm will submit OEM certificate.
6	Specifications	• High performance, reliable, and easy to use forensic duplicator - with a high resolution, touch screen User Interface (UI) or better.	BOO will check practically and firm will submit OEM certificate.

S N	Parameter		Trial Directives
		• It should support forensic imaging of SATA, USB 3, PCIe, SAS, FireWire 800, IDE, and network shares or better. • Outputs to SATA, USB 3, SAS, and network shares or better. • Supports up to two active forensic jobs at a time (simultaneous imaging) or better. • Supports up to four destinations per source with the ability to mix clone/image duplication and local/network destinations or better. • Job queuing option for efficiency and convenience or better. • Disk-to-File Duplication (Compressed .e01 & .ex01), Disk-to-Disk Duplication (Cloning), Compute Hash Values, Verify Hash Values, HPA/DCO Disable, Blank Check Drives, Format Drives, Wipe Drives, Display, Print, and Save Logs, Secure User Profiles or better. • High-resolution, color touch screen user interface, used to control and monitor ongoing operations wizard driven UI uses simple touch gestures to select and initiate all functions or better. • Supports collecting data in a forensically sound (a.k.a. "write-blocked") manner or better. • Network based forensic acquisitions, remote triage applications, or network based "write blocking" or better.	
7	Adapters & Cables	a) mSATA / M.2 to SATA Adapter Kit b)Blade Type SSD Adapter c)SATA LIF Adapter d)micro SATA e) 1.8" IDE Laptop Adapter f) 2.5" IDE Laptop Adapter g) ZIF IDE Adapter h) PCIe Card SSD Adapter i) PCIe M.2 SSD Adapter j) PCIe Apple SSD Adapter	BOO will check practically and firm will submit OEM certificate.

S N	Parameter		Trial Directives
	k) Thunderbolt to Firewire Adapter and USB C to USB Cable for Mac acquisition. or Any other adopter and cables required by the user.		
9	Water resistivity	All of content of the kit should be skilfully bundled in a rugged pelican waterproof case perfect for field or lab acquisition	Firm will submit OEM certificate.
C)	**FARADAY BOX**		
1	The patented industry standard for forensics visual and hands-on interrogations		BOO will check practically and firm will submit OEM certificate.
2	Provides maximum isolation from all UMTS mobile device bands		BOO will check practically and firm will submit OEM certificate.
3	Provides maximum isolation from WiFi signal sources including 802.11a/b/g/n/ac		BOO will check practically and firm will submit OEM certificate.
4	Features the latest GEN-2 custom RF gasket system		BOO will check practically and firm will submit OEM certificate.
5	Features the latest GEN-2 custom RF absorbent and reflective foam liner		BOO will check practically and firm will submit OEM certificate.
6	Large RF shielded viewing window for visual real-time confirmation of device displays and functions		BOO will check practically and firm will submit OEM certificate.
7	Dual RF shielded silver mesh tactile gloves for hands-on access to devices		BOO will check practically and firm will submit OEM certificate.
8	Built-in internal LED illumination		BOO will check practically and firm will submit OEM certificate.
9	Built-in RF filtered AC power strip		BOO will check practically and firm will submit OEM certificate.
10	High speed USB2.0 data interface		BOO will check practically and firm will submit OEM certificate.

S N	Parameter	Specifications	Trial Directives
11	Forensics tamper-proof hardware and a dual pad-lockable latches prohibits unauthorized access and maintains the chain of custody		BOO will check practically and firm will submit OEM certificate.
12	Universal removable I/O panel customizable for your specific applications		BOO will check practically and firm will submit OEM certificate.
13	Features	Designed for lab and bench visual forensics interrogations Patented design RF tight hands-on access to your device RF tight illuminated viewing of your device 1/2" GEN-2 high efficiency RF foam liner GEN-2 high efficiency RF gaskets Exclusive double lip RF seal Universal removable I/O panel	BOO will check practically and firm will submit OEM certificate.
14	Connectors	RF isolated 6-outlet 110VAC power stripRF isolated 6-pole feed-though terminal blockRF isolated USB2.0 high speed interface	BOO will check practically and firm will submit OEM certificate.
15	Isolation	>90dB @ 918MHz >85dB @ 2.4GHz >80dB @ 5.8GHz	BOO will check practically and firm will submit OEM certificate.
D)	**FLAME PROOF LOCKER**		
1	Capacity	Minimum 60L	BOO will check practically.
2	Locking System	Lever high security Cylindrical Locks. Snap shut mechanism.	BOO will check practically and firm will submit OEM certificate.
3	Certification	Data protection as per IS: 14562 for 1 hour fire endurance and 1 hour fire & impact test.	Firm will submit certificate of Govt. Lab. or NABL/ILAC accredited laboratory.

S N	Parameter		Trial Directives
4	Total Memory slots	Designed as per UL-72 Class 125 specifications for 1 hour rating.	BOO will check practically and firm will submit OEM certificate.
5	Type	Flame Resistant.	BOO will check practically and firm will submit OEM certificate.
E)	**MOBILE FORENSIC SOFTWARE** (As per user requirement)		
	Mobile forensic software contains:- 1. UFED 4 PC/Touch 2 2. MSAB XRY 3. MD NEXT and MD RED 4. Oxygen Forensic 5. Mobile edit forensic express pro or any other /additional latest available software and add on modules as per user requirement.		BOO will check practically and firm will submit OEM certificate.
F)	**PORTABLE FORENSIC WORKSTATION**		
1	Cabinet	Portable rugged forensic laptop system Designed especially for IT-forensic analysis	BOO will check practically and firm will submit OEM certificate.
2	Display	15.6" or more, non-reflective, FHD	BOO will check practically.
3	Processor	Intel i7-8700K 4.7 GHz Processor or latest	BOO will check practically and firm will submit OEM certificate.
4	RAM	64 GB or more	BOO will check practically and firm will submit OEM certificate.
5	Video Card	NVIDIA GeForce RTX 2070 8GB GDDR6 or better	BOO will check practically and firm will submit OEM certificate.
6	System	512 GB SSD, M,2 NVMePCIe x4 2x 2 TB SSD SATA III or better	BOO will check practically and firm will submit OEM certificate.
7	Optical Drive	As per user requirement	BOO will check practically and firm will submit OEM certificate.

S N	Parameter	Specifications	Trial Directives
8	Communication	As per user requirement	BOO will check practically and firm will submit OEM certificate.
9	Security	As per user requirement	BOO will check practically and firm will submit OEM certificate.
10	Connections	a) HDMI Port b) Display Port 1.4 over USB 3.2 Gen 2 (Type C) c) USB 3.2 Gen 2 Ports (Type A) d) USB 2.0 Port (Type A) e) Headphone jack (2-in-1) Headphone/S/PDIF Optical) f) Microphone jack g) Line-In jack h) Line-out jack i) RJ-45 Port j) DC-in or any other ports required by the user	BOO will check practically and firm will submit OEM certificate.
11	Software	As per user requirement	BOO will check practically and firm will submit OEM certificate.
12	Forensic Imaging Tools	As per user requirement	BOO will check practically and firm will submit OEM certificate.
G)	**WRITE BLOCKER KIT**		
1	Portable kit which contains a complete family of hardware write blockers along with adapters and connectors for use in acquiring a forensically sound image of virtually any hard drive or storage device		BOO will check practically.
2	Includes USB 3.0 IDE/SATA, SAS, USB3, FireWire, Forensic Card Reader, Two Power Supplies, Cables and Adapters.		BOO will check practically and firm will submit OEM certificate.

S N	Parameter	Trial Directives
3	USB 3.0 to IDE+SATA	BOO will check practically and firm will submit OEM certificate.
4	SAS	BOO will check practically and firm will submit OEM certificate.
5	USB 3.0 to USB 3.0	BOO will check practically and firm will submit OEM certificate.
6	FireWire	BOO will check practically and firm will submit OEM certificate.
7	FCR	BOO will check practically and firm will submit OEM certificate.
8	Power supply with line cord	BOO will check practically and firm will submit OEM certificate.
9	IDE signal cable 8"	BOO will check practically.
10	IDE signal cable 2"	BOO will check practically.
11	SATA signal cable	BOO will check practically.
12	3M to Molex Power Cable	BOO will check practically.
13	3M to SATA Power Cable	BOO will check practically.
14	SAS integrated signal and 3M power cable	BOO will check practically and firm will submit OEM certificate.
15	USB-A to 5 pin Mini-B	BOO will check practically and firm will submit OEM certificate.
16	USB 3.0 A to B cable	BOO will check practically and firm will submit OEM certificate.
17	FW800 Cable 9p-9p	BOO will check practically and firm will submit OEM certificate.
18	FW800 Cable Adapter 4p-9p	BOO will check practically and firm will submit OEM certificate.
19	FW800 Cable Adapter 6p-9p	BOO will check practically and firm will submit OEM certificate.
20	Hard Drive Adapter 2.5"	BOO will check practically and firm will submit OEM certificate.
21	Hard Drive Adapter 1.8"	BOO will check practically and firm will submit OEM certificate.
22	ZIF Hard Drive Adapter	BOO will check practically and firm will submit OEM certificate.
23	MicroSATA Adapter	BOO will check practically and firm will submit OEM certificate.
24	SD Micro and Mini Memory Card Adapters	BOO will check practically and firm will submit OEM certificate.

S N	Parameter	Trial Directives
25	Rugged case with custom foam insert	BOO will check practically and firm will submit OEM certificate.
H)	**DATA EXTRACT AND DECODE SOFTWARE FOR NON-STANDARD MOBILE PHONES**	
1	Should be all-in-one mobile forensic system.	Firm will submit OEM certificate.
2	Should combine both mobile phone logical and physical solution in one package	Firm will submit OEM certificate.
3	Should allow investigator full access to all the possible method to recover data from a mobile device.	Firm will submit OEM certificate.
4	Should be software based solution, complete with all necessary hardware for recovering data from mobile device in a secure manner and go deeper in to a mobile device to recover vital data	Firm will submit OEM certificate.
5	Should have a combination of logical and physical analysis tool available for supported device.	Firm will submit OEM certificate.
6	Should produce a combine report containing both live and deleted data from the same handset	Firm will submit OEM certificate.
7	Should perform simultaneous operations like extraction, decoding and analysis, on a single platform	Firm will submit OEM certificate.
8	Should include multiple mobile phone extraction capability simultaneously at-least up to 3 devices	Firm will submit OEM certificate.
9	Should be able to recover deleted data e.g. contacts, image, SMS, emails, VOIP Call Data, video, GPS locations etc	Firm will submit OEM certificate.
10	Should be able to decode mobile Apps such as Viber, WhatsApp, Skype, Facebook messenger, QQ, etc	Firm will submit OEM certificate.
11	Extraction should support acquisition of internal memory and removable media	Firm will submit OEM certificate.

S N	Parameter	Trial Directives
12	Extract data from variety of non-standard mobile devices including Chinese Chipsets	Firm will submit OEM certificate.
13	Should generate hex-dumps from the phone memory, typically by bypassing the device operating system	Firm will submit OEM certificate.
14	Physical extraction allows users to generate hash values of the memory image, as well as individually decoded files	Firm will submit OEM certificate.
15	Should support GPS Device Physical extraction and Examinations	Firm will submit OEM certificate.
16	Should have Triage Mode	Firm will submit OEM certificate.
17	Should allow search of data either by specific parameters or open text	Firm will submit OEM certificate.
18	Should able to clone SIM cards Mini/ Micro/ Nano	Firm will submit OEM certificate.
19	Should have Write Protected Universal Memory Card Reader	Firm will submit OEM certificate.
20	If should automatically generates an audit trail of the forensic process for peer review	Firm will submit OEM certificate.
21	It should recover VOIP call data, GPS mapping information and instant messaging logs	Firm will submit OEM certificate.
22	Should have Report Generator to generate and customize reports in different formats e. g. PDF, HTML, XML and Excel	Firm will submit OEM certificate.
23	Product Offered should be of International Repute & Brand	Firm will submit OEM certificate.
24	Should extract and decode data from non-standard mobile devices	Firm will submit OEM certificate.

S N	Parameter	Trial Directives
25	Able to extract evidence from mobile device where a screenshot is the only way to capture relevant evidence and help validate device extraction results	Firm will submit OEM certificate.
26	Should have viewing capabilities: Geographic view, Chat view, Timeline view and Connection view	Firm will submit OEM certificate.
27	Zoom in or out to focus analysis on any point in time using the Timeline view	Firm will submit OEM certificate.
28	Navigate data by location. Find places of interest and investigate the data connected to those places - such as calls made or received, pictures taken and more using Geographic view	Firm will submit OEM certificate.
29	Track chat threads from different apps such as WhatsApp, IMessage, Facebook messenger and others using Chat view	Firm will submit OEM certificate.
30	Discover and investigate the interactions between different device owners and accounts using Connection view	Firm will submit OEM certificate.
31	Indian Distributor/ Reseller/ Bidder should have OEM trained manpower for training of the product	Firm will submit OEM certificate.
I)	**DISC FORENSIC SOFTWARE**	
	Disc Forensic software contained tools:- 1. BELKASOFT X 2. Magnet Axiom 3. FTK 4. Encase Forensic	

S N	Parameter	Trial Directives
	5. Forensic Explorer or any other /additional latest available software and add on modules as per user requirement	Firm will submit OEM certificate.

(G.Rajan), AC
SSB

(B.S.Rathore), Team Cdr
NSG

(Madhvendra Singh), DC
ITBP

(H.S.Srihari), Dy.Dir
DCPW

(J.S.Sikarwar), DC
BSF

(Vikas Maurya), DC
CISF

(Vivek Kumar), DC(IT)
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Approved/Not Approved

16/4/21

Kuldiep Singh, IPS
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