

GOVERNMENT OF PAKISTAN
CYBER SECURITY FOR DIGITAL PAKISTAN/nCERT
(NATIONAL CYBER EMERGENCY RESPONSE TEAM)

CORRIGENDUM

Reference tender notice **TS605494E** published on PPRA's website dated 11th July, 2025 and published vide **PID No. PID (I) 461/25** dated 20th July, 2025. It is intimated that Bid Submission/Closing date for procurement of “**Digital Forensic Software and Hardware**” has been further extended as per the following details: -

Sr. No.	Tender e-Pads No.	For	Read
a.	TS605494E	Technical Bids will be opened on 13 th Aug, 2025 at 1130 hours	Technical Bids will be opened on 18 th Aug, 2025 at 1400 hours

All others terms and conditions of subject tender inquiry will be as per Tender Document uploaded on PPRA e-PADS at <http://eprocure.gov.pk> and PKCERT Official website at <https://pkcert.gov.pk/tenders.asp>. Bidders may contact on following address /contact details for any further query.

Note: Bidders are requested to re-submit their bids on PPRA e-PADS after issuance of corrigendum.

Project Director
National Cyber Emergency Response Team (NCERT)
L- Block Pak Secretariat, Islamabad
Ph No. 051-9203421-22
Email: bid@pkcert.gov.pk
Website: (<https://pkcert.gov.pk/>)

GOVERNMENT OF PAKISTAN
CYBER SECURITY FOR DIGITAL PAKISTAN/nCERT
(NATIONAL COMPUTER EMERGENCY RESPONSE TEAM)

CORRIGENDUM

Reference advertisement published vide PID No. PID (I) 461/25 dated 20th July, 2025 and uploaded on PPRA website against Tender inquiry No. TS605494E on 11.07.2025. It is intimated that Tender for “Procurement of Digital Forensic Software and Hardware” under the “Project Cyber Security for Digital Pakistan/nCERT” to PKCERT has been updated as per the following detail: -

Sr. No.	Tender e-Pads No.	For	Read
a.	TS605494E	OEM Warranty: two years from the date of delivery.	OEM Warranty: one years from the date of delivery.
		Delivery time for the imported items: 4-6 weeks.	Delivery time for the imported items: 8-12 weeks.
		Table M: Specifications of the processor is not comprehensible.	Table M: Specifications of the processor is updated.
		Forensic Adaptor kit and accessories are mentioned in same table i.e Table P.	Forensic Adaptor kit and accessories are mentioned in separate tables i.e Table P and Table Q.
		Table R: Quantity, accessories, and frequency range of the RF Analyzer are not mentioned.	Table R: Quantity, accessories, and frequency range of the RF Analyzer are specified.
		Table O: Feature of NAS storage system are not understandable.	Table O: Feature of NAS storage system are elaborated.

All others terms and conditions of subject tender inquiry will be as per new Tender Document with updated Technical Evaluation Criteria uploaded on PPRA e-PADS at <http://eprocure.gov.pk> and PKCERT Official website at <https://pkcert.gov.pk/>. Bidders may contact on address/contact for any further query.

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CYBER SECURITY FOR DIGITAL PAKISTAN / NCERT

(NATIONAL CYBER EMERGENCY RESPONSE TEAM)

PROCUREMENT OF
DIGITAL FORENSIC SOFTWARE AND HARDWARE

GOVERNMENT OF PAKISTAN
CYBER SECURITY FOR DIGITAL PAKISTAN/nCERT
(NATIONAL CYBER EMERGENCY RESPONSE TEAM)

INVITATION TO BIDS

1. Cyber Security for Digital Pakistan /nCERT invites bids for “**Procurement of Digital Forensic Software and Hardware**” under the “**Project Cyber Security for Digital Pakistan/nCERT**” for which electronic bids are invited from the firms/ companies registered with Income Tax, Sales Tax Departments and who are on FBR’s Active Taxpayer’s List (ATL) through e-PADS.
2. The prospective service providers are required to submit their electronic bids including technical and financial proposals along with the Bid Security instrument amounting to Rupees 0.8 Million/- (Rupees Eight Hundred Thousand Only) submitted in favor of Project Director PKCERT (FTN/NTN: 9012000-7) through e-PADS at <http://eprocure.gov.pk> uploaded on or before **1100 hours on 13th August, 2025** in accordance with the provisions of PPRA Rule 36(b) and other terms & conditions as defined in the bidding documents.
3. In case of any technical difficulty in using e-PADS, prospective bidders may contact PPRA team Director MIS Room No. 109, 1st floor, FBC building Sector G-5/2, Islamabad (Contact No. 051-111-137-237).
4. Original Bid security instrument **MUST** be submitted to the undersigned before closing hours of the bid submission time otherwise respective bid will not be opened.
5. Bidding documents can be accessed from the website of National Cyber Emergency Response Team (<https://pkcert.gov.pk/>) as well as on PPRA website.
6. Bids will be opened on the same day **i.e. 13th August, 2025** at **1130 hours** in the presence of representatives of the bidders.
7. As per PPRA Rules 33(1), 2004, National Cyber Emergency Response Team (nCERT) has the right to reject any or all bids/ proposals at any time prior to the acceptance of a bid/proposal.

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Cyber Security for Digital Pakistan/nCERT
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1. BACKGROUND:

“Cyber Security for Digital Pakistan”, is a PSDP project sponsored by Ministry of Information and Technology (MoITT) and executed by National Telecommunication & Information Technology Security Board (NTISB). The project “Cyber security for Digital Pakistan” is a pre-requisite for the Digital Pakistan initiative addressing current National cyber security gaps and concerns. This project will provide cyber security and digital initiative support to all public/private/defence sector organizations/institutes at national level. In pursuance, Project Director is looking to procure Digital Forensics Software and Hardware for PKCERT HQ’s Office at Block-L Pakistan Secretariat Islamabad. Objective of the procurement is to:

- a. Serve as a center of excellence in facilitating digital forensic investigation in pursuance of incident response.
- b. Combat cyber-incidents in Pakistan through cooperation in investigation, knowledge sharing, professional training, and the provision of Digital Forensics facilities, empowering a more cooperative and collaborative workforce that works and functions as a unified entity.

Clarification of the Bidding Document

The bidders can seek further information or clarification regarding the bidding Document, within 07 (Seven) calendar days of issuance/publication of invitation to bids. The clarification and its replies will be shared with all prospective bidders on demand and will also be communicated at the **pre-bid meeting to be held at NCERT L Block Pak Secretariat on 22nd July 2025 at 1100 hrs.** Bidders should note that during the period from the receipt of the bid and until further notice from the Primary Contact given herein this document, all queries should be communicated via the Primary Contact and in writing (e.g. e-mail & letter) only.

1. GENERAL INFORMATION AND INSTRUCTIONS FOR BIDDERS

- a. The bidders having presence in Pakistan independently or through joint venture/ consortium/authorized agent/ dealer having valid NTN & GST Registration being on Active Tax Payer List of FBR are invited.
- b. The Bidding will be an open, competitive and transparent process in accordance with Public Procurement Regulatory Authority (PPRA) Ordinance, 2002, and Rules, Regulations and Guidelines made thereunder.
- c. Bids must be submitted online through e-Pak Acquisition & Disposal System (EPADS) by closing date. Manual bids will not be accepted.
- d. The prospective service providers are required to submit their electronic bids including technical and financial proposals along with the Bid Security instrument amounting to Rupees 0.8 Million/- (Rupees Eight Hundred Thousand Only) submitted in favor of Project Director PKCERT (FTN/NTN: 9012000-7) through e-PADS at <http://eprocure.gov.pk> uploaded on or before **13th August, 2025 at 1100 hours** in accordance with the provisions of PPRA Rule 36(b) and other terms & conditions as defined in the bidding documents.
- e. Bidders can bid item-wise through Single Stage Two Envelope procedure. The client reserves the right to award contract for all or selected items to successful bidder/bidders. The client reserves the right to increase or decrease the quantity of items at the time of issuance of supply order. For the purpose, bidders to quote each module/ product separately (Any item having multiple functionalities must be quoted separately for each function).
- f. The submission and evaluation of bids will be carried out under the "Single Stage Two Envelop Procedure under Rule 36(b) of Pubic Procurement Rules 2004". Technical bids will be opened by Technical Evaluation Committee, at **NCERT HQs on the same day at 1130 hrs** in presence of bidder's representative who may choose to attend.
- g. The Bidder's name must be on Active Taxpayers List (ATL) of FBR for Income tax and sales tax (or on ATL of any provincial Revenue Authority for sales tax) as on the date of bid submission and onward throughout the period of contract in compliance of the Eligible Bidders (Tax Compliance) Regulations, 2015.
- h. The Bidders shall submit proposals in English language only.
- i. The Bidders shall quote all prices in Pak Rupees (PKR) in the Financial Proposal inclusive of all applicable taxes, duties etc. i.e. GST etc. and amount in both figures and words in the bidding documents. The rates quoted shall remain valid for **180 calendar days** from the date of opening of Technical Proposal.
- j. The bidders should nominate a focal person as a liaison officer to act as the primary Point of Contact (PoC) for correspondence with the Client.
- k. The bidder will submit a proposal for either an individual item (hardware or software) or a all items, and technical evaluation will be performed item-wise.
- l. The Client shall not entertain incomplete or partial and conditional bids.
- m. The Bidders shall bear all costs / expenses associated with the preparation and submission

of the bid(s) and the Client shall in no case be responsible / liable for those costs / expenses including transportation/carriage charges for visit(s) to the Client.

- n. Soon after technical evaluation, the technical qualified firms as per evaluation criteria, shall be called for opening of financial bid on given date and time which will be communicated to the firms in writing. Un-opened bid security instrument shall be returned to the technically disqualified firms.
- o. The successful bidder shall be responsible for payment of any duties/ taxes etc. that are imposed by Govt. of Pakistan during the period of delivery and till commissioning.
- p. Bidders are hereby informed that the Government shall deduct tax at the rate prescribed under the tax laws of Pakistan, from all payments for Hardware/ Software.
- q. Bidders should clearly indicate the time-line for delivery of equipment after receiving the award of contract.
- r. All hardware/ software should be supplied through verifiable and legitimate distribution/ Sales channels.
- s. Envelope for financial proposals should be clearly marked: “Financial Proposal”. Main envelope should contain “Technical Proposal” & “Financial Proposal” (each being physically separated, bound, sealed and labeled), all the supporting documents as per evaluation criteria and a separate clearly marked sealed envelope of bid security instrument.

2. BIDDER'S INFORMATION

- a. Bidders shall submit of following documents /information with relevant authorities: -

Company information	1. Valid Incorporation certificate from Securities and Exchange Commission of Pakistan (SECP)/ Registration with GoP 2. Valid NTN and STN Certificates
Address	
Telephone No	
Fax No	
Primary contact person Name, phone, email:	

3. PRICES

- a. The bidder should quote its rates clearly in Pak Rupees inclusive of all applicable taxes, duties etc. i.e. GST etc. in the financial proposal and amount in both figures and words.
- b. The rates quoted shall remain valid for 180 calendar days from the date of opening of Technical Proposal.

4. AFFIDAVIT

The Bidders shall provide an undertaking on non-Judicial Stamp Paper that the Bidder itself or its sister/sub companies have not been declared black listed by any Government/Semi-Government/autonomous body or private institution.

5. THE CLIENT'S RIGHTS

The Client may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. NCERT shall, upon request, communicate to any bidder who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.

6. SCOPE OF WORK

- a. Digital Forensic software including computer Forensics, Mobile forensics, data recovery etc. and Fuzzing software for software testing. Technical specifications along-with marking for technical evaluations given at **Table A, B, C, D, E, F, G, H, I** and **evaluation criteria is given in Section 7.**
- b. Digital Forensic Hardware including Forensic laptops, workstations, storage servers. Technical specifications given at **Tables K, L, M, N, O, P Q, R, S, T** and **evaluation criteria given in Section 8.**

7. EVALUATION CRITERIA OF DIGITAL FORENSIC SOFTWARE

- a. Technical bids shall be opened and evaluated by technical evaluation committee in view of criteria given in **Table A and Table B, C, D, E, F, G, H, I.**
- b. Those bids which will satisfy the mandatory requirements given in Table A will undergo technical evaluation.
- c. Proposals obtaining at least 70% marks in technical evaluation shall be eligible for the participation in financial bid opening.
- d. Technical bids shall have 70 % weightage whereas financial bids shall have 30 % weightage.
- e. **Technical Scoring will be done from total 70 marks distribution is given in Table B, C, D, E, F, G, H, I.**
- f. **The obtained score out of 70 marks by each supplier will be its "Technical Score" and that will be added into the financial score to obtain the final score value out of 100.**
- g. Technical Evaluation Report shall be announced as per the Rule 35 of PP Rules 2004. Technically qualified/successful bidder(s) shall be notified in advance and invited for opening of the Financial Proposal(s). The Financial Proposals will be opened at the time and venue indicated by the Client (i.e. NCERT) in the presence of the Bidders or their authorized representatives if they choose to attend.
- h. Financial bids shall be opened and evaluated by procurement committee of NCERT.
- i. The bidder should quote its rates clearly against each item including all taxes, duties etc. in the **Financial Proposal** in both figures and words.

- j. Financial Proposal evaluation will be conducted under the Rules in vogue. The Price evaluation will include all duties, taxes and expenses etc.
- k. In cases of discrepancy between the cost/price quoted in Words and in Figures of a bid, actual quoted cost of all items will be calculated and aggregated by the NCERT Purchase Committee (PC-I) and will be taken as the total bid price inclusive of all applicable taxes. This evaluated price will be shared with all bidders.
 - (i) In cases of discrepancy between unit price and total price, the former will prevail.
 - (ii) If a bidder does not accept the corrected amount of bid, as explained above, its bid will be rejected together with forfeiture of its Bid Security.
 - (iii) The Client will not be responsible for any erroneous calculation of taxes and all differences arising out as above shall be fully borne by the Successful Bidder. However, any subsequent changes in rates or structure of applicable taxes by the Government of Pakistan at any time during execution/evaluation period should be followed.
- l. Evaluation criteria of Financial proposals are as under:

“ Financial Score”=

$$30 \times \frac{\text{Amount quoted by the lowest bidder}}{\text{Amount quoted by the bidder whose financial score is to be calculated}}$$

8. TOTAL SCORE OF EACH OEM FOR EACH ITEM = TECHNICAL SCORE + FINANCIAL SCORE

- a. Work will be awarded to the bidder after technical and financial bids evaluation, item-wise. The bidder obtaining highest marks combining both Technical and financial proposals will be awarded the contract.
- b. If two or more bidders obtain equal marks after combining Technical & Financial scores, which is the highest score for any item, then the contract will be awarded to the one having higher technical score.
- c. In case of refusal by successful bidder to sign contract, the client may award the contract to second financially lowest bidder in accordance with PPRA letter dated 15-02-2021 having caption “General Clarification Regarding Award of Contract to Second Most Advantageous Bidder”.

Table A: <u>Mandatory Requirements to enter the technical evaluation phase</u>		
Sr. #.	Requirement/ Document to be attached	Compliance? Yes/ No
1.	The bidder must have to produce Sales Tax and Income Tax Registration.	

2.	The bidder must be an Active Tax Payer of FBR.	
3.	The bidder must ensure that Bid Security copy is attached in the Technical Proposal in the form of Bank Draft or Pay Order in favor of “Project Director – Cyber Security for Digital Pakistan”.	
4.	The bidder must submit affidavit on non-judicial Stamp Paper.	
5.	The bidder/ OEM must have Presence, Sales and Service Support Center in any one major city of Pakistan.	
6.	TSP / Institution / Firm should have a good / sound financial standing to meet the contract obligations. (Bank / Financial Statement, duly audited, for the last three (3) years to be provided).	
7.	The bidder must offer prices for both annual and perpetual Software Licenses separately	
8	Bids must include a clear and comprehensive section on licensing terms, detailing authorized users, validity period, training requirements, and other relevant clauses. Vague or imprecise provisions will be deemed unacceptable or result in loss of marks.	

Note (Applicable on all Tables: B, C, D, E, F, G, H, I)

1. Two-year license support and update will be applicable.
2. Installation of Forensics software and license validity will be verified by vender.
3. On-premises technical training on the tool by the vendor or partner will be acceptable; any expert joining online will be considered an added benefit.

<u>Table B: Portable Imaging Device / Write Blocker / Duplicator Kit</u>		
	Portable Imaging Device / Write Blocker / Duplicator Kit	Score
a.	Bidder’s experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the “quoted” solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	The kit should have the blocker devices for the storage media having the interface of SATA, IDE, Firewire USB2, USB3, e-SATA, Micro-SATA, Combine SATA and ZIF, PCIe/NVMe, USB-C / Thunderbolt and SAS (Serial Attached SCSI) along with their respective connecting cables	10
d.	Should support various operating systems i. Windows, Linux, Unix, Sun Solaris, Macintosh, Apple iOS. Capable to acquire/clone data from one-to-one, two-to-two destinations media.	15

	ii. Support different forensics image formats i.e. dd, EnCase, FTK, AFF, and Apple disk images	
e.	Should have the facility to Disk-to-Disk duplication with a facility of compression. Preview and acquire full disk, targeted data, support Image formats of AD1, E01, RAW, or SMART.	10
f.	Availability of local Support and on premises training.	10
	Total	70

Table C:		
<u>Cryptanalysis/ Password cracking Solution (like Passware kit Ultimate or equivalent)</u>		
	Cryptanalysis/ Password cracking Solution (like Passware kit Ultimate or equivalent)	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	Should detect and decrypt Password from Windows, Android. Recovery of passcodes for Apple and Android devices. Extraction of data from locked or encrypted mobile devices.	7
d.	Recover passwords from all MS Office files (i.e. MS word, MS excel files) for all versions, PDF, Zip, RAR, and more.. Full Disk Decryption: Decrypts or recovers passwords for various encryption types, including BitLocker, FileVault2, and VeraCrypt. Reset passwords for Local and Domain Windows Administrators, recover encryption keys from HDD protected with BitLocker, including BitLockerToGo.	10
e.	i. User can provide own password dictionary and partial known password. Capable of recovering Mac User Login passwords and FileVault2 keys from computer and support Distributed and Cloud Computing password recovery on both Windows and Linux platforms. ii. Include Special password recovery attacks such as: Rainbow Tables, Decryptum, SureZip, ZipPlaintext, support Password modifiers (case changes, reversed words,etc.)	8
f.	i. Should recover passwords from a memory dump / image or a standalone SAM file, recover passwords for email, websites and network connections from standalone registry files. ii. Should have Search Index Examiner to retrieve electronic evidence from a Windows Desktop Search Database, able to decrypt passwords for Facebook, Google, and other websites from live memory images or hibernation files.	5
g.	GPU Acceleration & Distributed Computing: Accelerated password recovery using multiple computers, GPUs, and Rainbow Tables. Live Memory Analysis: Acquires and analyzes live memory images to extract encryption keys and passwords.	5

h.	Availability of local Support and on premises training.	10
	Total	70

Table D: Mobile Forensics Software (like UFED Cellebrite / Oxygen / XRY / MobilEdit / Graykey)

	Mobile Forensics Software (like UFED Cellebrite / Oxygen / XRY / MobilEdit / Graykey)	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	The solution should have the ability to capture and process artifacts from a variety of sources, including smartphones (iOS and Android), cloud data, GPS devices, IoT devices, watches, home devices, and drones. Data Acquisition techniques: The solution should have multiple acquisition techniques, including rooting, jailbreaking, ADB backup, application downgrading and chip dumps, to ensure data extraction from all Apple iOS and Android versions.	15
d.	Chipset Support: The solution should have compatibility with Chinese and U.S. chipsets, including MediaTek, Spreadtrum, and Qualcomm. Recovery from Social Media App: The solution should have support for social media backup and cloud data processing, including services like Instagram, Facebook, Twitter, LinkedIn, Snapchat, TikTok, Amazon Alexa, Gmail, Google Drive, iCloud, DJI Go, Fitbit, and smartwatches.	10
e.	Reporting and Localization: The solution should have options for generating investigative reports in multiple formats (HTML, CSV, TXT, RTF, Excel, PDF)." Updates: The solution should include regular software updates to ensure compatibility with new devices and operating system versions.	10
f.	Availability of local Support and on premises training.	10
	Total	70

Table E: Cloud Forensics / DB Forensics / Cloud Applications Forensics/ (Like Magnet AXIOM Cyber)

	Cloud Forensics / DB Forensics / Cloud Applications Forensics/ (Like Magnet AXIOM Cyber)	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the	15

	vendor will enhance the solution's value for extra marking opportunities.	
c.	Should support the data recovery from maximum number of cloud applications i.e. Google application, Facebook, Instagram, WhatsApp, Twitter.	10
d.	Should support user credential recovered from different mobile acquisition software i.e. UFED, Oxygen, Magnet Axiom.	15
e.	Reporting and Localization: The solution should have options for generating investigative reports in multiple formats (HTML, CSV, TXT, RTF, Excel, PDF)." Updates: The solution should include regular software updates to ensure compatibility with new applications.	20
	Total	70

Table F: Data Recovery (Hard Drive/ USB/ SD Cards)

	Data Recovery (Hard Drive/ USB/ SD Cards)	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	Recovers and carves data from HDDs, SD Cards, Flash Drives. Recovers data from damaged partition structures.	10
d.	Supports data recovery on network computers running Windows, MacOS, Linux, and some other UNIX OS. Supports windows file systems (, exFAT , NTFS, NTFS5) and MacOS file system (HFS, HFS+, HFSX, APFS) Support for known file types signatures .	15
e.	Provides data recovery from RAID volume set (i.e. RAID 6, RAID 5, and RAID 4 layouts and custom RAID layouts).	10
f.	Availability of local Support and on premises training.	10
	Total	70

Table G: macOS based Forensic Suite (like RECONLAB and MacQuisition)

	macOS based Forensic Suite (like RECONLAB and MacQuisition)	Score
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a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	Full Forensic Suite designed natively on macOS. Able to parse and recover maximum number of artifacts from Windows, macOS/iOS (Apple Extended Metadata), Android OS, and Google Takeout, SQLite Databases, Hex, and the Window's Registry.	10
d.	Supports RAM Analysis for Windows and Mac.	10
e.	Provides Advanced Reporting with Integrated Built-in Editor - has integrated report editor that allows to edit anything in the report inside the application and sorts bookmarked or tagged data chronologically. Gives Advanced Sort and Filter Options – Sorts and filters by Automated Results, Metadata and Apple Extended Metadata.	15
f.	Availability of local Support and on premises training.	10
	Total	70

Table H: Data recovery from damaged HDD / SSD / USB and SD card (like PC3000 portable, salvation data)

	Data recovery from damaged HDD / SSD / USB and SD card (like PC3000 portable, salvation data)	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder. Vendor to present a comprehensive overview of the "quoted" solution, including its features, constraints, and limitations. Licensing terms and conditions be thoroughly explained. Additional features quoted by the vendor will enhance the solution's value for extra marking opportunities.	15
c.	Support data recovery from logically damaged HDD, SSDs, USBs, SD Cards. Device support M.2 PCIe NVMe/AHCI SSD & M.2 SATA SSD adapter, PCIe NVMe/AHCI Adapter for Apple Macbook SSD, MacBookPro A1706/A1708 adapter, PCIe x16 SSD Adapter, SSD PCIe U.2 Adapter, SSD PCIe NVMe/AHCI + Intel Optane Adapter and CFexpress adapter.	10
d.	Device must able to recover data only from logically damaged (partition corruption, deleted files, damaged File System, etc.)	10
e.	Device must also be able to recover data from damaged RAID array.	15
f.	Availability of local Support and on premises training.	10
	Total	70

Table I: Fuzz Testing		
	Fuzz Testing	Score
a.	Bidder's experience, deployments in Pakistan or foreign	10
b.	Presentation to be given by a representative of bidder.	15
c.	Automated Input Generation (Random) Automatically generates inputs to test and find hidden bugs without requiring access to source code, making it suitable for testing third-party applications and systems	10
d.	Enables fuzz testing across a variety of common network protocol like HTTPs, FTP. TCP etc. supports custom and proprietary protocols through its 'Auto Learning' feature.	5
e.	Tests APIs by sending randomized or malformed requests to detect vulnerabilities. (REST, SOAP, GraphQL)	5
f.	Identifies application crashes and logs details for debugging and analysis. Detects critical memory-related vulnerabilities in applications Memory Leak, Buffer Overflow, Use-After-Free Detection	5
g.	Allows long-running fuzzing campaigns for deeper vulnerability discovery.	5
h.	Comprehensive logs and reports that provide insights into discovered vulnerabilities, including steps to reproduce and suggested fixes.	5
i.	Support and Training.	10
	Total	70

9. EVALUATION CRITERIA OF DIGITAL FORENSIC HARDWARE

- a. Bidders should have been in IT business, sales and after sales support/maintenance provisioning for at least three years.
- b. All equipment should have one year's comprehensive onsite warranty including parts.
- c. Bidders or partners/ affiliate should be a company/ firm having operational office in Pakistan.
- d. Bidders should have registration with Income Tax, Sales Tax and FBR's Active Taxpayer's List (ATL).
- e. The following documents/ evidence should be attached in support of the technical proposal evaluation as per the above criteria:
 - a. Copies of NTN registration with Income Tax, Sales Tax departments
 - b. Experience Certificate
 - c. Authorized partner/ OEM Certificate where applicable
 - d. Detailed product specification.
- f. Detailed technical evaluation will be done for firms who qualify the preliminary evaluation mentioned above.
- g. In detailed technical evaluation the evaluation and award committee will verify the

compliance with specification, item-wise, mentioned in Table K, L, M, N, O, P Q, R, S, T below. Any bid containing less specification of any item will be rejected in respect to that item.

- h. Financial bids of the technically qualified firms will be opened before the representatives who wish to attend the tender opening. Financial bids will be opened only for those vendors only who qualify (meet the specifications) in technical and detailed technical evaluation.
- i. Bidder having lowest financial bid will be awarded with the contract. After acceptance of technical and financial bid, an award letter shall be issued. Within 15 days of receipt of award letter, the successful OEM/ Firm will sign and return the duplicate copy of the award letter in acknowledgement thereof. In the event the copy of the award letter duly signed by firm is not received by the stipulated date, PKCERT may, unless it consents to extension of time for submission thereof, cancel the award letter issued to it.
- j. **OEM Warranty:** The vendor shall provide an official OEM hardware warranty for a minimum period of one years from the date of delivery.
- k. **Local Support and OEM Coordination:** The vendor shall ensure two (2) years of comprehensive local support, including hardware warranty services and active coordination with the OEM for issue resolution.

Table: K
Forensics Workstation (Qty: 04) (System with specs mentioned below or equivalent)
<ul style="list-style-type: none"> • Mainboard: Intel Socket LGA4677 for Xeon W Series Processors, IntelW790 Chipset, 128 GB RAM, 8x DIMM slots, Max. 2048GB DDR5 RAM, 2x 10Gb Ethernet port, 1x 1Gb Ethernet port, 3 x M.2 slots, 2 x Slim SAS slots, 8x SATA 6Gb/s ports • CPU 12-Core Intel® Xeon® w5-3425 Processor (30M Cache, 3.20 GHz - 4.60 GHz) • RAM 128GB (expandable up to 2TB) 4x 32GB DDR5 ECC REG RAM • Graphic Card NVIDIA GF RTX, min. 6GB Memory, PCIe, min. 1x HDMI & 1x DisplayPort • Storage Intern 1x 1TB SSD M.2 NVMe PCIe 4.0 x4 for OS 1x 2TB SSD M.2 NVMe PCIe 4.0 for Cache 1x 4TB SSD M.2 NVMe PCIe 4.0 for database 2x 20TB Enterprise HDD SATA III for DATA • Intel Xeon W, Dual 10G Ethernet • Computer Case Cosmos C700 Serie, customized Big- Tower • Monitor Display: Ultra Sharp 32inch 4K USB-C Hub Monitor • Drive Bay; I/O Panel: 1x USB 3.1 Type-C; 4x USB 3.0 Type A; 2x USB 3.2 Type C • Power Supply 1200WATT Modular Power Supply ATX, EPS12V, PS/2 • Forensic-Bridge: Tableau T356789iu Forensic Universal Bridge USB3, Imaging Shelf. • Cable Set: TC2-8-R2, TC4-8-R2, TC6-8, TC7-9-9 PCIe Adapter Set: TDA7-1, TDA7-2, TDA7-3, TDA7-4, TDA7-7, TCPCIE-4, SATA&IDE Adapter Set: TC6-2, TDA3-1, TDA3-2, TDA3-3, TDA3-LIF, two LIF cables, TDA5-18, TDA5-25, TDA5-ZIF, TC20- BNDL

Table: L
Forensics Laptops (Qty: 04) (System with specs mentioned below or equivalent)
<ul style="list-style-type: none"> • Mainboard: 14th Gen Intel Core i9-14900HX (2.2 GHz, Max Turbo Boost 5.40 GHz) 16 E-

core / 32 thread CPU

- GRAPHICS CARD: NVIDIA GeForce RTX 4080 GPU 12GB
- 16inch QHD (2560x1440) 240Hz, WVA, 100% DCI-P3, G-Sync Display
- 128 GB Dual Channel DDR5 SDRAM at 5200 MHz
- One (1) 1TB M.2 NVMe PCIe 4.0 SSD for the Operating System
- One (1) 4 TB M.2 NVMe PCIe 4.0 SSD for Evidence Files

Hardware Write Blocking:

Laptop ULTRAKIT (v5) – Set of forensic hardware write blockers (Ultra Block USB3.0 to IDE/SATA, Ultra Block PCIe, and Ultra Block USB3.0) including interface cables, SATA III to m.2 and mSATA adapter, PCIe m.2 SSD adapter and two power supplies in a watertight/airtight

Case - Forensic Media Card Reader – Read- Only and Read/Write switchable (Packaged in Laptop Ultra Kit v5)

Table: M

Servers (Qty: 01)

(System with specs mentioned below or equivalent)

The vendor shall be fully responsible for the **installation, configuration, architectural layout design, and testing** of the hardware. This includes ensuring successful deployment and operational readiness of all supplied equipment.

- Intel® Xeon® Platinum 8380 2.3G, 40C/80T (single processor), 11.2GT/s, 60M Cache, Turbo, HT (270W) DDR4-3200
- Chassis with up to 8x2.5" Drives Trusted Platform Module 2.0 V3 2.5" Chassis with up to 8 SAS/SATA Drives
- Heatsink for 2 CPU Performance Optimized 3200MT/s RDIMMs
- **RAM:** 256 GB RAM 16GB RDIMM, 3200MT/s, Dual Rank C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed) Front PERC H755 Rear Load
- **Storage Intern:** 4 x 1TB SSD SAS
- UEFI BIOS Boot Mode with GPT Partition No Energy Star
- **Power Supply:** Dual, Hot-Plug, Power Supply Fault Tolerant Redundant (1+1), 1200W, Mixed Mode 5720 Dual Port 1Gb On-Board LOM
- Broadcom 57416 Dual Port 10GbE BASE-T Adapter, OCP NIC 3.0 Intel X710 Dual Port 10GbE SFP+ Adapter, PCIe Low Profile
- Mellanox ConnectX-6 DX Dual Port 100GbE QSFP 56 Network Adapter, Low Profile NVIDIA Ampere A16, PCIe 250W, 64GB Passive DW, FH GPU with R750xa Bracket, Requires GPU SW for VDI GPU Factory Installed cable kit for DW GPU W/CPU CONN + 2 GPU Blanks (2 GPUs)
- PowerEdge 2U Standard Bezel BOSS-S2 controller card + with 1 M.2 240GB (No RAID)
- No Operating System No Media Required iDRAC9, Enterprise 15G
- Open Manage Enterprise Advanced Quick Sync 2 (At-the-box mgmt) iDRAC, Factory Generated Password iDRAC Service Module (ISM), NOT Installed iDRAC Group Manager, Disabled

Table: N

Password Cracking System (Qty: 01)

(System with specs mentioned below or equivalent)

- **CPU:** Intel® Xeon® Gold Series with 64Cores in total
- **Memory:** Total 512 GB DDR5 Dual Rank 4800

- **Power:** Dual, Hot-plug, Redundant Power Supply (1+1), 1100W, 250 Volt Power Cord
- **Storage:** 2 x 480GB SSD SATA Read Intensive 6Gbps 2.5in Hot-plug AG Drives 6 x 2.4TB 10K RPM SAS ISE 12Gbps 512e 2.5in Hot-plug Hard Drive
- **Raid Controller:** Must support different RAID configurations for HDDs/SSDs (Mixed Drive Types Allowed)
- **Raid Configuration required:** RAID 1 + RAID 5 for HDDs or SSDs (Matching Type/Speed/Capacity Within Each RAID Container)
- **Network daughter cards:** Dual Port 100GbE QSFP56 Network Adapter, Full Height Quad Port 1GbE BASE-T Adapter, PCIe Full Height
- Embedded Systems Management, idrac9 or equivalent with service modules Rack Sliding Rails with Cable Management Arm
- Power Cords, Optics & Cables for Network Cards: 1GbE, 10 GbE SFP+ all included
- **Adapter Set:** TDA7-1, TDA7-2, TDA7-3, TDA7-4, TDA7-7, TCPCIE-4 SATA&IDE TC6-2, TDA3-1, TDA3-2, TDA3-3, TDA3-LIF, two LIF cables, TDA5-18, TDA5-25, TDA5-ZIF, TC20- BNDL

Table: O
NAS Storage System (Qty: 01) (System with specs mentioned below or equivalent)
The vendor shall be fully responsible for the installation, configuration, architectural layout design, and testing of the hardware. This includes ensuring successful deployment and operational readiness of all supplied equipment
1 x NAS with 500 TB Usable storage and expendable up to 1 Peta Bytes, NL-SAS Disks, 2 x RAID Controllers RAID Configuration: RAID 5 Data Protection Feature: Data protection and Security Feature Port: Dual Port 10GbE SFP+ Adapter

Table: P	
Accessories with Functional Requirements	
Screwdrivers (different sizes) – 2 pcs of each size	NA
Digital Camera: Nikon Coolpix B500	1
Storage box or container for carrying equipment	1
Torch	1
Magnifying glass	2
Evidence sealing or evidence bags	50
Tamper-proof stickers	500
Faraday bags (Mobile, Tablet & Laptop size) For protection from 2G, 3G, 4G, 5G, Bluetooth, GPS and WiFi, (2.5Ghz and 5Ghz)	500
iPhone with bionic chipset and latest iOS version	1
Android Phone with Mediatek chipset and latest android OS	2
Android Phone with Qualcomm chipset and latest android OS	2
Android Phone with Samsung Exynos chipset and latest android OS	2
Android Phone with Google Tensor chipset and latest android OS	2
Android Phone with Infineon chipset and latest android OS	2
Android Phone with Kirin chipset and latest android OS	2

Android Phone with UNISOC/ Spreadtrum chipset and latest android OS	2
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Table: Q
Faraday's Box (like Ramsey STE3000F2 Isolation Box or equivalent)
<ul style="list-style-type: none"> • Compatible with Forensic software tools • RF isolated 6-outlet 120VAC power strip • RF isolated 6-pole feed-through terminal block • RF isolated USB2.0 high speed interface • 60MM Honeycomb Vents • RF tight illuminated viewing window • RF tight "hands-on" silver mesh gloves • Wide variety of I/O options • fully isolated from WiFi signal sources, including both 2.4 GHz and 5.0 GHz or any combination of 802.11a/b/g/n/ac protocols

Table: R
RF Analyzer – Table Mounted (Qty: 01) (System with specs mentioned below or equivalent)
<p>Frequency range from 2 Hz to 72 GHz (with external harmonic mixers up to 110 GHz) Low phase noise of -137 dBc (1 Hz) at 10 kHz offset (1 GHz carrier) WCDMA/HSPA/HSPA+ 3GPP LTE GSM/EGPRS/EDGE Evolution/VAMOS CDMA2000® 1xEV-DO (with standard accessories)</p>

Table: S
MacBook Pro (Qty: 01)
<p>M4 Pro (Mac Device)</p> <ul style="list-style-type: none"> • Processor: Apple M4 Max chip with a 16-core CPU and a 40-core GPU. • Memory: 48 GB of unified RAM. • Storage: 1 TB SSD, configurable up to 8 TB. • Display: 16.2-inch Liquid Retina XDR display.

Table: T
Forensics Adapter Kit (Qty: 02)
<p>Forensics Adapter Kit (TABLEAU PCIE ADAPTER BUNDLE (TKDA7-3PC-BNDL))</p> <ul style="list-style-type: none"> • TDA7-1 Tableau PCIe Card SSD Adapter • TDA7-2 Tableau PCIe M.2 SSD Adapter • DA7-3 Tableau PCIe Adapter for Apple SSD • TC-PCIE-4 Tableau PCIe Adapter Cable - 4" Rugged Travel Case with Foam

10. DISQUALIFICATIONS

Proposals will be liable to be rejected if any deviation is found from the instructions as laid down in the bid document i.e.

- a. False/ Incorrect submission of undertaking certificate.
- b. Technical bid is submitted without the required redacted copy of Bid Security.
- c. Offers are received after specified date and time.
- d. Specification and other requirements are not properly adhered to or different from those given in the bidding documents.
- e. GST and NTN certificates are not attached.
- f. Bidder is not in Active Taxpayer List (ATL) of FBR for both income tax and sales tax or any provincial revenue authority for sales tax only.
- g. Sales and Support Service Centers not in Pakistan.
- h. Quoting under rated Software i.e. noncompliance of specifications mentioned in the bidding document.

11. REDRESSED OF GRIEVANCES BY THE PROCURING AGENCY

- a. NCERT has constituted a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidder that may occur prior to the entry into force of the procurement contract.
- b. Any Redressal of grievances and settlement of disputes shall be done according to Section 48 of Public Procurement Rules, 2004.
- c. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

12. PERFORMANCE BANK GUARANTEE (PBG)

- a. Bid security of successful bidder shall be retained till provision of Performance Bank Guarantee (PBG). Whereas, bid security of unsuccessful bidders will be returned after award of contract to successful bidder.
- b. A Performance Bank Guarantee (PBG) from a bank for an amount equal to 10 PERCENT of the bid/contract price in PAK RUPEE, shall be submitted before signing the contract for carrying out the assignment. For the purpose of Bank Guarantee, the bid/contract price will mean the total bid amount as provided in Financial Proposal.
- c. Performance Bank Guarantee (PBG) shall be submitted in shape of pay order/ bank draft in favor of “Project Director – Cyber Security for Digital Pakistan” at the time of signing of the Contract.
- d. If selected, The Contractor if not able to commission the software/solution as per contract or have provided the under rated or under quality product, support services, Performance Guarantee will be forfeited and contract will be cancelled. Further to add the following conditions shall also lead to forfeiture of Performance Guarantee and cancellation of contract:
 - (i) False/ Incorrect submission of undertaking certificate
 - (ii) If the Contractor commits a default under the Contract;

- (iii) If the Contractor fails to fulfill the obligations under the Contract;
 - (iv) If the Contractor violates any of the terms and conditions of the Contract;
 - (v) If Blacklisting procedure by the client is being initiated against the Contractor.
- e. Performance Guarantee would be retained until one (1) year after all contractual obligations have been fulfilled and would be submitted within 15x days of signing the contract by the supplier or as per the demand of purchaser.

13. AWARD OF CONTRACT

- a. Work will be awarded to the bidder after technical and financial bids evaluation. The bidder obtaining highest marks combining both Technical and Financial proposals will be awarded the contract.
- b. If two or more bidders obtain equal marks after combining Technical & Financial scores, which is the highest score for any item, then the contract will be awarded to the one having higher technical score.
- c. In case of refusal by successful bidder to sign contract, the client may award the contract to second financially lowest bidder in accordance with PPRA letter dated 15-02-2021 having caption "*General Clarification Regarding Award of Contract to Second Most Advantageous Bidder*".
- d. Supplier shall deliver the equipment, hardware, software, machinery within the 4-8 weeks after issuance of the Purchase Order (PO), and a performance insurance guarantee must be submitted within 15x days of signing the contract by the supplier or as per the demand of purchaser.
- e. Successful bidder shall be responsible for providing Product Training and Certifications related to the specific software on premises of NCERT.
- f. The successful Firm shall be required to deposit in the form of a Bank Guarantee, a Performance Bond from the date of successful testing and acceptance, a sum equivalent to ten percent (10%) of the contract value. This Bank Guarantee shall be issued by a scheduled bank operating in Pakistan and shall be kept valid from the date of issue, until one (1) year after all contractual obligations have been fulfilled.

14. CORRUPT OR FRAUDULENT PRACTICES

- a. Definition of the terms set forth below for the purposes of this bidding document, shall be according to Public Procurement Rules, 2004.

15. PAYMENT PROCEDURE

- a. No advance payment shall be made against the supply of hardware and software mentioned in the bidding document.
- b. Payment shall be made on provision of invoice/bill as per the schedule below:

Sr. No.	Milestones	Time Period	Payment
1.	Supply of equipment / Software. Installation and Configuration	4-6 weeks for inland items from date of signing -of contract 8 - 12 weeks for the import items from date of signing of contract	40%
2.	Successful testing and acceptance	Four (04) weeks from installation and configuration of Hardware and Software	60% Subject to provision of Performance Insurance guarantee