

PROCUREMENT PROCEDURE OF CPRI (NON WORKS)

Revision No. : 03
Dt of Revision : 25.07.2017

Issue No : 2
Issue Dt. : 30.06.2003

Section : Formats
Topic : e-Tender Technical Specification Document

Issued by : P A
Documents : PPM

FORMAT NO.:CPRI/PUR/eTBID/GTP

Section II -Technical Specification

CENTRAL POWER RESEARCH INSTITUTE, BANGALORE Web: www.cpri.in, www.tenderwizard.com/CPRI, Tele: 080-2207 2271

Tender Enquiry No.: CPRI BLR19MUAD26C572

Description of the Equipment/Goods/Services: Vulnerability Assessment and Penetration Testing Tools (VAPT) with associated software and hardware

Note : 1) The Offers should be submitted only in this format otherwise the offer will be liable to be rejected.

2) All blue fields are mandatorily to be filled in.

3) Pre-despatch Inspection & Training expenses shall be borne by CPRI. Information regarding the readiness of the equipment/machinery for the Pre-despatch Inspection should be communicated in writing by the supplier at least 70 (Seventy) days in advance, to obtain clearance from the Ministry, Government of India for deputation of nominated CPRI officers.

Name of the Vendor

Quotation Number and Date

Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by the Bidder	
				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
I	SCOPE	Supply, installation, demonstration and training of Vulnerability Assessment and Penetration Testing Tools (VAPT) with associated software and hardware at CPRI Bangalore.			
1	Objective & Scope:				
a)	Objective	The quoted test tool test shall be suitable for performing following functions:			
		i. Proactive detection of vulnerabilities in elements of deployable or deployed power / energy systems and/or networks before the vulnerabilities are exploited. This includes identification, understanding and verification of weaknesses, misconfigurations and vulnerabilities within all types of end user devices and nodes in a power / energy automation network (end to end security) and to report the list of threats with possible solutions.			
		ii. To find security bugs / malwares in server / client application software and to report the list of threats with possible solutions.			

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		iii. To test the resiliency of a DUT (device under test e.g. network nodes and RTUs) against vulnerabilities related to Distributed Denial of Service (DDoS) attacks, Botnets, Phishing, identity theft, Advanced Persistent Threats etc. and to report the list of threats with possible solutions.			
b)		Scope			

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				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
		The broad scope includes supply, installation and training of Vulnerability Assessment and Penetration Testing Tools (VAPT) with associated software and hardware at CPRI Bengaluru. The scope of this tender is to set up Power Cyber security Test Lab with the testing tool(s) capable of testing the security features of all types of IP, Power / energy automation and ICT equipment in access, transport, control and application layers of wireless and wireline domain deployed and likely to be deployed in the Power / energy network and M2M. Also it shall be able to cover various types of field Devices such as RTUs, IEDs, dongles, modems etc. and smart meters, Gateways, modem interfaces at end user locations. The Test tools shall comply to the international security testing standards IEC / IEEE. For the purpose of this tender the category of tests can be broadly divided in, but not limited to the following two groups: i. Vulnerability assessment tool for detection of known vulnerabilities ii. Penetration testing tool for exploiting the detected vulnerabilities. The scope of tender shall also include generation of a final test report in a standard format (e.g. pdf and html) from various tools and providing mitigation recommendations.			
2		Requirements for the Test Tools for security testing:			

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		All the tools supplied shall be of commercial or professional version with perpetual license. The list of required Test Tools with their testing features shall be as follows:			
2.1		Vulnerability assessment tool:	1 No.		
		i. CVE (common Vulnerability Exposure) compliant.			
		ii. The Vulnerability assessment tool shall be capable of scanning targets i.e. network nodes including end user devices, the operating systems, databases, and/or Web applications residing on those nodes in an attempt to detect known vulnerabilities. The identified vulnerabilities shall comply to latest CVE catalogue inline with power / energy and communication sector vulnerabilities.			
		iii. The tool shall be capable of scanning individual devices connected to the tool on one to one basis and / or a range of devices connected to the tool through LAN as well as WAN network			

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		iv. The tool shall begin its assessment by performing a "footprint" analysis that involves first discovering all open ports on a device under test, then scanning these ports to enumerate all of the available services on the device to determine which services and/or software programs (including versions and patch levels) are running on the target. The supplied tool shall attempt to identify (patterns/ attributes of) the known vulnerabilities, in the detected services/software versions, and then report their findings as result.			
		v. Active scanning i.e. scanning followed by validation of the detected vulnerabilities shall be performed by the tool to verify present vulnerabilities and exploitable. The tool shall be capable of analyzing false positives i.e., the instances in which the scanner detects a pattern or attribute indicative of a likely vulnerability, which upon further analysis proves to be either not present or not exploitable.			
		vi. The Vulnerability Assessment tools shall be capable of scanning a number of network nodes, both local and remote, including networking and networked devices (IEDs, RTUs, FRTUs smart meters, Modems, etc. switches, routers, firewalls, printers, etc.), as well as server, desktop, and portable computers. The tool shall support testing of at least 20 devices simultaneously.			

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		vii. The reports generated by the tool shall list the vulnerabilities in the prioritized order. Exact remediation and recommendations for all vulnerabilities shall be provided to fix and improve the security of the DUT / EUT and overall network in line with the best practices.			
		viii. There shall not be no need to load or maintain any client software on the targets i.e. device under test.			
		ix. The vulnerability knowledge database for this tool shall comprise of all the published vulnerabilities related to IP domain including power / energy & communication sector and any other prevalent standard.			
		x. The library of the vulnerability assessment tools shall be updated regularly as and when latest version is released and shall contain a complete trigger list of all possible known attacks e.g. DDoS, Buffer overflow, SQL injection, eavesdropping, session hijacking, APT, BOTs etc.			
		xi. It shall be capable of scanning all the operating systems, firmware, databases, protocols and applications being used by power sector equipment, modems, all types of wireless access points, routers, switches and perimeter devices e.g. firewalls, IDSs, IPSs, Unified Threat Management (UTMs) etc.			

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		xii. The supplier shall provide suitable on-site mechanism to customize the format of the report generated by the tool as per the requirement of CPRI. CPRI shall provide the report format at the time of installation and training.			
		xiii.. The tool shall be upgraded by the supplier with capabilities for scanning new operating systems, firmware, databases, protocols and applications being used by power sector equipment, dongles, modems, all types of wireless access points within 3 months from the date of request by the CPRI.			
2.2		Penetration testing tool:	1 No.		
		i. Penetration testing tool shall be capable of launching attacks on targets /systems under test for exploiting the detected vulnerabilities.			
		ii. It shall determine whether the detected vulnerabilities are actually exploitable.			

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		iii. This tool shall correlate and prioritize results to deliver an accurate, risk-ranked list of issue to ensure that the most serious issues are addressed first. It shall generate actionable data in the form of detailed reports highlighting risks of targeted systems, tests conducted, vulnerabilities exploited, and attack paths followed plus links to patches for the detected vulnerabilities and other remediation data.			
		iv. It shall have the capabilities of addressing a wide range of threat vectors related to various types of networks and end user devices.			
		v. It shall also have the capability of development of new customized exploits, as well as augmentation or modifications in the existing exploits. These customizations or modifications shall be possible without any expertise in programming languages.			
		vi. The tool shall be platform independent and shall have a user friendly web based GUI			
		vii. The supplier shall provide suitable on-site mechanism to customize the format of the report generated by the tool as per the requirement of CPRI. CPRI shall provide the report format at the time of installation and training.			

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		viii. The supplier shall update its library of exploits on a continuous basis as per the CVE catalogue updation as and when latest version is released / published. All the exploits must be thoroughly tested prior to its incorporation in the test Lab.			
		ix. The supplier shall continually update and upgrade its manual exploit development and customization module, on its own, as per the latest techniques and best practices available in the market, but not later than 3 months from the date of request made by CPRI.			
		x. The tool shall be hosted on Tool Server as well as dedicated hardware. It shall be possible to access the tool from tool server clients as well as clients of dedicated hardware.			
3.0	Software & hardware upgrades requirements:				
		i. There shall be no need to upgrade the software when the hardware port(s) is/are added in the lab equipment.			

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		ii. The supplier shall undertake to supply on continuing basis all software updates free of cost, for a period of three years (Warranty plus SLA) from the date of installation and training. These updates shall include new features and services and other maintenance updates. The supplier shall quote SLA cost for 2 years separately.			
		iii. Direct download of updates and upgrades on lab equipment shall not be permitted. It shall first be downloaded on a separate workstation dedicated for this purpose, sanitized for the presence of any virus, malware etc. and then it shall be loaded on the actual lab equipment.			
		iv. The supplier and/or its OEMs shall have the facilities for software maintenance like software debugging, patch development, patch verification, patch implementation at sites, version control of software, document generation and repository of working versions.			
4	General information				

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		1. The laboratory infrastructure items which includes servers for hosting tools, firewall, router, LAN switch and client PCs / Workstations will be provided by CPRI during the installation & training. The bidder has to indicate the minimum specification of above items including OS & any other software required for meeting the objectives and functioning of tools hosted on servers along with quantities.			
		2. For the supply of testing tools, the bidder or its partner OEM shall have capability and experience in development and implementation of test scripts for various quoted testing tools as per BOQ to facilitate automated test processes. In support of the above, the bidder or its partner OEM shall submit the documentary proof for setting up or supply of quoted item(s) to at least two national/international labs during the past three years owned by Power / Energy sector / telecom operator/regulator/government/ manufacturer / independent entity. The bidder shall have Indian office / facility			

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3. Bidders shall disclose the name and address of agents and representatives located in India and Indian Bidders shall disclose their foreign principals or associates.					
A	Installation & Commissioning	The bidder shall supply items, install on the system provided by CPRI and demonstrate the successful operation of supplied items at CPRI, Bengaluru.			
B	Training	Two days training on operation of supplied items shall be provided at CPRI, Bengaluru. Desktop PC / Laptops will be provided by CPRI			
C	Inspection	Items to be supplied will be inspected by CPRI officials on delivery of items at CPRI, Bengaluru.			

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D	Delivery Place	Supply and training of operation of supplied test tools shall be done at CPRI, Bengaluru.	-		
E	Warranty/ Support	Supplied items shall be covered under warranty for a period of minimum of One year. The warranty/ support would be counted from the successful date of supply and hand over of products / items to CPRI. During warranty period, necessary updates shall be provided at no extra cost.	-		
F	Post Warranty / AMC	2 years. Cost shall be quoted separately.	-		
G	Delivery Period	One Month from the date of PO.			

PN: 1) Bidder shall indicate complete details/information how the CPRI GTP are complied with against each and every specification parameters & mere statement of 'complied' do not suffice the requirement.

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by the Bidder	
				Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any

2) A detailed technical/catalogue/literature/phamplet and any other details shall be submitted in hard copy in a sealed cover superscribing enquiry number and due date so as to reach the following address within the due date and time.

3) The Indian representative of the foreign/overseas firms shall submit the Letter of Authorization issued by their principals.

4) The bidder shall submit the quotation / offer in the above prescribed format of Section IA, IB and II only. Informations any other forms shall be rejected.

Address : Joint Director (Purchase), Purchase Authority, Central Power Research Institute, Sadashiva Nagar P.O., P.Box.No.8066, Bengaluru-560 80.

Tele: 080-2207 2271, email: purchase@cpri.in, web: www.cpri.in