Procedures in Submission and Opening of Electronic Bid

- Upon submission of a duly filled-up LBP Secure File Transfer Facility (LBP SFTF) User Registration Form together with copies of LANDBANK Official Receipt and Payment Acceptance Order for non-refundable bidding fee to the HOBAC Secretariat, the prospective bidder shall receive an email with log-in credentials to access the LBP SFTF.
- 2. The electronic bid shall be submitted by uploading the same in the LBP SFTF (please refer to the Guide in Accessing LBP Secure File Transfer Facility below). <u>Electronic bids received after the set deadline basing on the date and time on the electronic folders of bidders shall not be accepted by the HOBAC</u>. Thus, bidders are requested to upload their electronic bids at least two (2) hours before the set deadline.
- 3. The electronic bid consisting of two copies/files shall be labelled with bidder's <u>assigned</u> short name, last seven (7) digits of the bidding reference number including the parenthesis if there are any, and bid copy number, each separated with a dash sign. Thus, for a project with bidding reference number LBPHOBAC-ITB-GS-20200819-01(2) that XYZ Company wants to bid on, the archived files shall be labelled as XYZ-081901(2)-C1 and XYZ-081901(2)-C2. The archived files shall be generated using either WinZip, 7-zip or WinRAR and password-protected.

Each of the above mentioned archived files shall contain the Technical Component and Financial Component files. The PDF files shall be labelled as above plus the word "Tech" or "Fin" in the case of the Technical Component and Financial Component, respectively. Thus, using the above example, XYZ-081901(2)-C1 shall contain the PDF files labelled XYZ-081901(2)-C1-Fin while XYZ-081901(2)-C2 shall contain the PDF files labelled XYZ-081901(2)-C2-Tech and XYZ-081901(2)-C2-Fin.

In case of modification of bid, the qualifier "Mod" and a numeric counter indicating the number of times that the bid had been modified shall be added at the end of the filenames of both the archived and PDF files [e.g. First Modification: XYZ-081901(2)-C1-Mod containing XYZ-081901(2)-C1-Tech-Mod and XYZ-081901(2)-C1-Fin-Mod and Second Modification: XYZ-081901(2)-C2-Mod1, containing XYZ-081901(2)-C2-Tech-Mod1 and XYZ-081901(2)-C2-Fin-Mod1].

All the required documents for each component of the bid shall be in one (1) PDF file and sequentially arranged as indicated in the Checklist of Bidding Documents. The documents must be signed by the authorized signatory/ies when required in the form.

<u>Each of the archived files and the PDF files shall be assigned with a different password</u> and these passwords shall be disclosed by the bidder only upon the instruction of HOBAC during the actual bid opening.

Electronic bids that are not assembled, labelled and password-protected in accordance with these procedures shall not be rejected/disqualified but the Bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The HOBAC/LANDBANK shall assume no responsibility for the non-opening or premature opening of the contents of the improperly assembled, labelled and password-protected electronic bid.

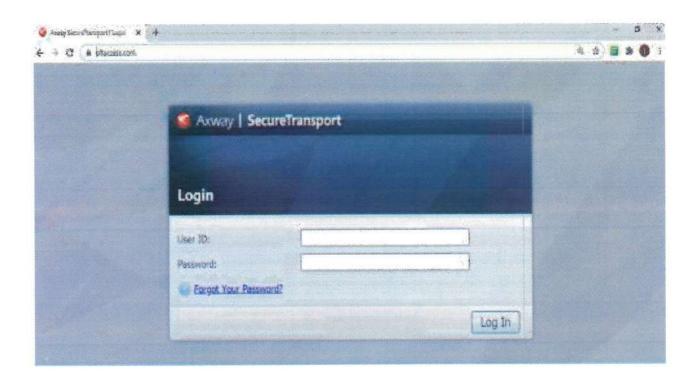
- 4. The prospective bidder shall receive an acknowledgement receipt via email <u>after</u> successful uploading of its/his electronic bid. If no email is received within one (1) hour after successful uploading, the bidder shall call the HOBAC Secretariat at (02) 8522-0000 local 2609 to confirm whether the submission has been received, and if so, request for the acknowledgment of receipt of the electronic bid.
- 5. On the bid opening date, the bidder shall confirm its/his participation in the online meeting with the HOBAC Secretariat at least one (1) hour before the scheduled meeting. The bidder shall be able to log in into MS Teams and join the Waiting Room of the HOBAC meeting. Only one account/connection per participating bidder shall be allowed to join the meeting. If the bidder has more than one (1) representatives, the said representatives may take turns in using the allowed account/connection.
- 6. Projects with participating bidders in attendance shall be given priority in the queuing.
- 7. Upon the instruction of the HOBAC Chairperson to start the bid opening activity, the HOBAC Secretariat connects the participating bidder/s to the videoconferencing/group calling session. The HOBAC Secretariat shall record the session and act as Moderator of the meeting all throughout.
- 8. Once the connections are in place, the HOBAC, with the assistance of the HOBAC Secretariat, retrieves the archived file from the LBP SFTF and opens the same. The Technical Proposal shall be opened first. Upon instruction from the HOBAC, the bidder concerned shall disclose the passwords for the archived file and the PDF file of the Technical Component.

In case an archived/PDF file fails to open due to a wrong password, the specific bidder shall be allowed to provide the HOBAC with passwords up to five (5) times only. The same number of attempts shall apply to Copy 2 of the bid, in case there is a need to open it. If the archived/PDF file still could not be opened after the maximum allowable attempts, the bidder concerned shall be disqualified from further participating in the bidding process.

- 9. The HOBAC then determines the eligibility and compliance with the technical requirements of the specific bidder using a nondiscretionary "pass/fail" criterion. Only bidders that have been rated "Passed" shall be allowed to participate in the succeeding stages of the bidding process.
- 10. The HOBAC, with the assistance of the HOBAC Secretariat, shall then open the Financial Components of those bidders that have been rated "Passed". Upon instruction from the HOBAC, the bidder concerned shall disclose the password for its/his Financial Component.
- 11. The HOBAC, with the assistance of the HOBAC Secretariat, conducts bid evaluation and ranking of the bids. The results of bid evaluation and ranking shall be recorded in the Abstract of Bids, which shall be signed by the HOBAC Members and Observers. The result of evaluation and ranking shall also be announced to the participants.
- 12. The retrieval and opening of the electronic bids, page-by-page review of documents and the results of the bid evaluation and ranking shall be shown to the participants through the screen sharing feature of MS Teams.
- 13. The access of the bidders to the videoconferencing/calling session shall be terminated once the Chairperson has declared that the bid opening activity for a specific project has been finished.
- 14. MS Teams Application shall be used in the conduct of online bidding. In the event that it is not available, other videoconferencing/group calling applications may be used as an alternative in conducting the meeting.

Guide in Accessing LBP Secure File Transfer Facility

1. Open browser and type the url: https://www.sftaccess.com



 Log-in with the credentials provided via email. (Note: Log-in credentials will be received upon submission of a duly filled-up LBP SFTF User Registration Form together with copies of LANDBANK Official Receipt and Payment Acceptance Order for non-refundable bidding fee)

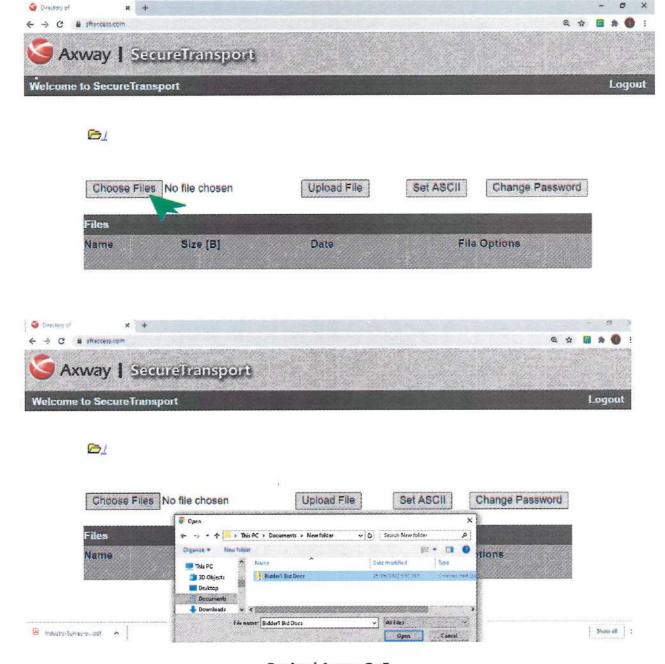
Username: [E-mail Address] e.g. bidder1@bidder.com

Password: [Landbank-provided password]

3. Upon successful login, click 'Choose Files' to upload file/s.

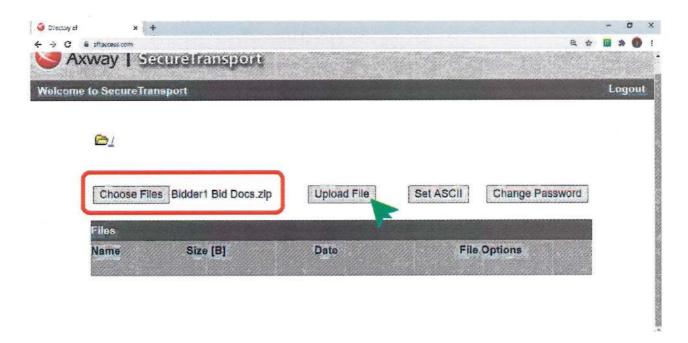
Notes:

- 1. Files should be encrypted/password-protected.
- 2. Please follow the instructions in Item 2 of the above Procedures in Submission and Opening of Electronic Bids.

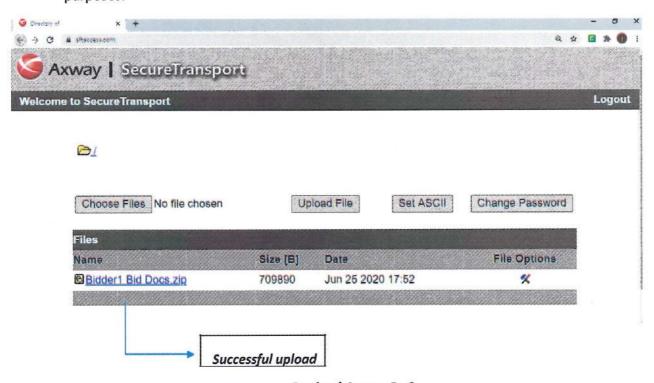


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4. Click 'Upload File' to upload the selected file/s.



5. Once a successful upload is completed, the files cannot be deleted anymore. The bidder will also receive a system-generated acknowledgement receipt in its registered e-mail address. A screenshot of the uploaded Bid/s should be taken by the bidder for record purposes.



Revised Annex B-6

File Repository of Bid Documents

All uploaded bid documents will be stored in the dedicated SFTF directory of a particular bidder and will be accessible by the assigned ProcD personnel.

Supply, Delivery, Installation and Configuration of Security Information & Events Management (SIEM) Solution Term of Reference

ltem	Description	Comply (Yes/No)
Syst	em Architecture and Hardware Requirements	
1	The solution must be delivered together with a Hyperconverged Infrastructure (HCI) with at-least 4 Nodes configuration.	
2	The hardware infrastructure must have a minimum of 24 Cores per Node	
3	The hardware infrastructure must have a minimum of 192GB of memory per Node	
4	The hardware infrastructure must have a minimum hybrid storage configuration of 10 x 12Tb SAS and 2 x 7.68Tb Solid State Drive (SSD) Hard Drives	
5	The hardware infrastructure must support 2 x 10GbE, 2port SFP+ Network Adapter with 10Gb SFP Transceivers and Fiber Patch Cords	
6	The solution must provide a unified browser-based platform that facilitates investigating, reporting, alerting, and administration.	
7	The solution must allow the flexibility to change the default communication ports.	
8	The solution must support multi-nodes design	
9	The solution must create indexes and meta data on the captured network traffic for fast searching and retrieval. Capturing and storing of network packets will be on a different appliance from the indexing appliance.	
10	The solution must use a purpose built internal data store that does not rely on external systems.	
11	The solution must be able to operate in out-of-band mode.	
12	The solution must support IPvC.	
13	The solution must provide redundancy to prevent any single component failure.	0.00
14	The solution must provide support for usage of 3 rd party storage	
15	The solution must support the full deployment (entire SIEM Stack) on Amazon Web Service (AWS).	
16	The solution must support up to 10G real time ingestion of Network Packets and 30K real time ingestion of logs via a single server (1 server for network packets and 1 server for logs)	(4)
Hardw	vare Technology and General Requirements	
17	The proposed Hyperconverged Infrastructure shall include the following sub-systems: a) Commodity off-the-shelf Combined Network, Storage, and Compute infrastructure with the following technical requirements: b) Network operating system combining software-defined storage, and built-in virtualization c) Professional Services for Deployment, User Acceptance Training (UAT) and Systems Documentation	
18	The proposed HCI shall be a high performance, scalable and flexible on premise, cloud platform solution that allows scale out or scale up growth dynamically without any limitation. Standard and advanced functionalities shall be achieved without the need to make architecture changes or without the need to invest in third party devices or software. Systems that requires the use of specialized, dedicated hardware or components will NOT be considered.	
19	The proposed Hyperconverged Infrastructure shall be a Combined Network, Storage, and Compute appliance based solution.	
20	The proposed Hyperconverged Infrastructure shall deliver a combined compute, network, storage, and virtualization platform that is scalable to meet workload demands, without the complexities and limited scalability of siloed systems.	

21	The HCI must be able to run multiple hypervisors. Support for Vmware and HyperV is Mandatory	
22	The HCl should be able support both hybrid and all flash node models. The mix and	
	match of these models should be supported in the same cluster.	
23	The proposed HCI should have built-in self-service cloud capability that allows customers	
	to define quotas and create template and cataloguing as needed.	
24	The HCI shall provide automated provisioning of infrastructure, applications and custom	
	services through a unified, web-based, multi-tenant self-service IT service catalogue.	
25	Must provide a single platform for running VMs, Block Services for a bare metal	
	workload and File Services (CIFS & SMB Protocol). These services should be natively	
	available in the platform without use of any third party tools.	
26	Should be 100% software defined without dependency on any proprietary hardware	
	device. Hyper converged solution must have Deduplication and Compression features	
27	Should provide the ability to enable / disable data services for specific applications that	
	the company feels are not suitable for compression / de-dupe.	
Deplo	yment Requirements	
28	The proposed HCI shall be deployed using commodity off-the-shelf servers.	
29	The proposed HCl shall be deployed using only Ethernet standard for management and	
	data connectivity.	
30	The proposed HCI shall be configured and deployed using web-based tools for simplicity	
50	and ease of deployment.	
31	Proposed HCl should be 100% software defined without dependency on any proprietary	
31	hardware device. Hyper converged solution must have Deduplication and Compression	
	features	
Resilie	ency and Data Protection Requirements	
32	The proposed HCl shall not have a single point of failure in its architecture. It shall meet	
52	the following resiliency requirements.	
	a. N+1 redundancy for power supply for ability to run on a single power source	
	b. A distributed file system for resiliency in case of storage module failure.	
	c. Redundant network ports in case of link or port failure.	
33	The proposed HCl shall have a capability for quick remediation of hardware or software	
55	problems.	
34	The proposed HCI shall distribute data and workloads on at least 3 servers to avoid	
51	overloading remaining servers in case of server failure.	
35	The proposed HCl shall deliver a solution that allows applications to move from one	
33	server to another in case of server failure, or need for more resources. This capability	
	shall be either automatic or manually controlled.	10
36	The proposed HCI shall have a self-healing file system during server failure and	
30	replacement, to ensure continuous data availability.	
37	The proposed HCl shall be able to create local and remote copies of applications for data	
37	protection and availability. These copies can be on a similar Combined Network, Storage,	
	and Compute appliance, a backup server, or cloud platform for flexibility and choice.	
	These copies can be created on schedule or manually.	
38	The proposed HCI shall be able to replicate data from one hypervisor type to another.	
	vare Performance Requirements	
900	The proposed HCI shall deliver a simple setup of combined performance and capacity	
39	storage modules, treated as a single pool of storage resource, for consistent and	
40	predictable performance. Ability to use a combination of high performance and low performance storage media	
40		
	(Flash / SAS / SATA / NL SAS) The proposed HCl shall distribute data and workloads on at least three servers to ensure	
41		
	consistent and predictable performance, in case of server failure.	

The proposed HCl shall deliver a solution that increases performance in terms of	
compute, storage, and network through seamless server upgrades.	
lability and Efficiency Requirements	
The proposed HCI shall be upgradeable through scale up or scale out options. These	
upgrade options can be done online and are non-disruptive.	
The proposed HCI shall be able to share its storage resources using standard network	
hardware or software to the platform.	
required capacity. This "grow as you use" capability will prevent wasteful	
overprovisioning.	
The proposed HCI shall be able provide a choice for upgrading compute and storage	
resources, or storage resource only. This provides flexibility to scale up only the resource	
that needs upgrading.	
The proposed HCI shall have storage efficiency capability that reduces data footprint and	
removes duplicate patterns of data. This will reduce storage cost and physical footprint.	
The proposed HCI shall have the capability to provide analysis to project the utilization	
resources, deallocate unused resources, or resize currently used resources.	
The proposed HCI network connectivity shall be upgradeable to 10Gb Ethernet by	
Solution should be able to add storage only nodes in same cluster. Such adding of nodes	
should not result in additional hypervisor license cost	
and the contract of the contra	
these models should be supported in the same cluster.	
se of Use Requirements	
900 100	
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- 3-3	
ics Platform	
The solution must provide a unified view across both packet data, logs, User & Entity	
The solution must provide a unified view across both packet data, logs, User & Entity Behaviour Analytics (UEBA) analysis and Endpoint detection and response solution	
The solution must provide a unified view across both packet data, logs, User & Entity	
	lability and Efficiency Requirements The proposed HCl shall be upgradeable through scale up or scale out options. These upgrade options can be done online and are non-disruptive. The proposed HCl shall be able to share its storage resources using standard network storage protocols for lower operational cost. This ability should not require add on hardware or software to the platform. The proposed HCl shall be able to provision storage without fully provisioning the required capacity. This "grow as you use" capability will prevent wasteful overprovisioning. The proposed HCl shall be able provide a choice for upgrading compute and storage resources, or storage resource only. This provides flexibility to scale up only the resource that needs upgrading. The proposed HCl shall have storage efficiency capability that reduces data footprint and removes duplicate patterns of data. This will reduce storage cost and physical footprint. The proposed HCl shall have the capability to provide analysis to project the utilization of compute and storage resources. This will provide guidance to acquire additional resources, deallocate unused resources, or resize currently used resources. The proposed HCl network connectivity shall be upgradeable to 10Gb Ethernet by adding optional NIC module. Solution should be able to add storage only nodes in same cluster. Such adding of nodes should not result in additional hypervisor license cost The solution should have both hybrid and all flash node models. The mix and match of these models should be supported in the same cluster.

60	The solution must create a complete ontology of searchable metadata across network	
	traffic created at near-real time. It must use lexicon of nouns, verbs and adjectives to	
	represent the captured data, to help analyst easily understand the captured log and	
	traffic data.	
61	The solution must provide a free-form search engine that allows search string to search	
	for events. The text search must provide these capabilities:	
	1. Use ANDed for Whitespace delimited word (For example, if search is done on Mark,	
	Albert, both Mark and Albert must be found in the session but they need not be	
	together or in specific order	
	2. Use OR (e.g. if you search Mark OR Albert, either Mark or Albert must be found in	
	the session to match, both are not required)	
	3. Use ANDs and ORs in a mix and match manner with explicit OR having higher	
	precedence than implicit (Whitespace) AND	
	4. Use – operator to exclude words from search result	
	5. Use Regular Expression	
	6. Search across RAW and META data	
62	The solution must provide a flexible dashboard with chart and summary displays for a	
	complete view of real-time captured data. Dashboard must support geo-location tagging	
	visualization detailing a world map and point of interested reflected on the map	
63	The solution must be able to output reports to remote network destinations via SFTP,	
	Network Share (CIFS/NFS) and URL.	
64	The solution must be able to schedule reports and provide the flexibility to generate on-	
0.	demand reports, and able to output report, not limiting to CSV and PDF formats	
65	The solution must provide fully customizable queries and report library to define report	
03	and alert combinations. The same query must be re-useable to create rule, alert or	
	chart.	
66	The solution must support the following notification output formats to external systems:	
	Common Event Formats (CEF)	
	Simple network management Platform (SNMP)	
	3) Syslog	
	4) Simple Mail Transfer Protocol (SMTP)	
67	The solution must support direct drill-down from the reports and charts to the	
07	underlying network session, to allow further investigation and pivoting around events of	
	interest.	
68	The solution should support correlation of network packets, logs, netflow and endpoint	
00	data (EDR) via a single platform through a common meta-data format	
69	The solution should support the following types of correlation:	
03	a) Rule-Based Correlation	
	b) Statistical Based	
70	The solution should provide pre-built correlation rules and allow for modification and	
70	import/export of rules	
71	The solution should provide a wizard-based interface for rule creation and the rules	
71	should support logical operators for specifying various conditions in rules.	
72	The solution should provide the following regulatory standards reporting templates out-	
72		
	of-the-box:	
	a) Basel II	
	b) Bill 198	
	c) Family Educational Rights and Privacy Act (FERPA)	
	d) Federal Financial Institutions Examination Council (FFIEC)	
	e) Federal Information Security Management Act (FISMA)	
	f) Gramm-Leach-Bliley Act (GLBA)	
	g) Good Practice Guide 13 (GPG13)	

	h) Health Insurance Portability and Accountability Act of 1996 (HIPAA)	
	i) International Standardization Organization 27002 (ISO 27002)	
11	j) North American Electric Reliability Corporation – Critical Infrastructure Protection	
	(NERC CIP)	
	k) National Industrial Security Program Operating Manual (NISPOM)	
	I) Payment Card Industry (PCI)	
200000	m) Sarbanes-Oxley Act of 2002 (SOX)	
73	The solution must support GeoIP location, name / IP address resolution, Google Earth	
	visualization (or similar) and provide right click menu customization. The GeoIP	
	capability must support both IPV4 and IPV6	
74	The solution must provide visual analytics on captured network data, log data and	
	endpoint via a single user interface	
75	The solution must be able to integrate with Microsoft Active Directory to associate data	
	and activity with a specific user.	
76	The analysis interface must support custom action to launch a 3 rd party application or	
- 1200	scripts.	
77	The solution must provide an Incident Management module to handle incident	
	journaling, create, assignees, add context, and close incidents. All incidents must be	
	searchable via a filter text box	
78	The solution must present aggregated incident in a nodal graph representation. The	
	nodal graph will show connections in languages easily understood (e.g. belongs to,	
	connecting to). For connections between source and destinations, if the number of	
	connections are higher than other connections in the graph, the 'line' connecting the	
	source and destination should be thicker to represent larger number of connections.	
79	Vendor must provide a complimentary lightweight endpoint EDR solution for collecting	
	host inventories, processes, user activities, and Windows logs and must be installed on	
	Windows, Mac or CENTOS platform.	
80	The vendor must conduct a Capture the Flag (CTF) exercise using the proposed solution	
	or suite of solution from vendor to exhibit required/future added capabilities	
81	For UEBA, minimum of 1000 user licenses is required for the pilot project	
	pture and Analysis	
82	The solution must be able to capture logs from event sources and process in real-time.	
83	The solution shall be able to identify and interpret customized or proprietary logs.	
84	The solution must support the following log collection protocols;	
	a) Syslog Event Sources (Syslog)	
	b) File Event Sources (SFTP)	
	c) Windows Event Sources (HTTP/HTTPS)	
	d) ODBC Event Sources (ODBC)	
	e) Checkpoint Event Sources (OPSEC LEA)	
	f) SNMP Event Sources (SNMP)	
	g) SDEE Event Sources (SDEE)	
	h) VMware Event Sources (VMware)	
85	The solution must be able ingest of Netflow messages.	
86	The solution must be able to collect from older Windows versions such as Windows	
	2000 and Window 2003.	
87	The solution must be able to collect from Windows servers in multiple domains.	
88	The solution must include remote virtualized log collectors to create a lightweight,	
	distributed, log collection infrastructure. Virtualized log collectors must be provided at	
- Committee	no additional costs.	
89	The data transport between the remote log collectors and log processing facility must be	
	encrypted. The events must be compressed before forwarding to the	
	correlation/storage facility to maximize the bandwidth.	

90	The remote log collectors must be able to cache the events locally and deliver the events	
	when the communication with the log processing facility resumes. The events must be	2
	compressed and encrypted when cached locally.	
91	The remote log collectors must support filtering or discarding of syslog events based on	
	keywords or regex patterns.	
92	The solution must support both push and pull methods between the log collectors and	
	the correlation/storage facility.	
93	The solution must support exporting of logs in the following formats; raw, csv, xml, json.	
94	The solution must support Amazon Web Service (AWS) log collection.	
95	The solution must provide a context lookup menu whereby within 3 clicks on an IP	
	address will display all the incidents/security associated with the IP address The solution must provide the capability to selectively retain logs based meta-data	
96	The solution must provide the capability to selectively retain logs based meta-data	
97	The solution must support log collection for AWS and Azure	
98	The solution must support log collection plugin framework allowing support for new	
	protocol or API, the plugin should be built in python	
99	The solution must support event source discovery that automatically detect mis-parsing	
	of logs or logs that are parsed to multiple different log parsers. User must be able to	
200.000	correct the mis-parsing via the SIEM GUI	
100	The solution must provide User Entity Behavior Analysis (UEBA) capabilities as part of	
	the solution (As optional add-ons). The UEBA solution must be from the same vendor	
	providing logs analysis (SIEM) and packet analysis (DPI) capabilities	
101	The solution must support dynamic editing of logs parsers, add custom log parsers and	
	update log parser rules via the solution's user interface	
102	Solution must provide the capability to for user to manually map a log source to a	
	specific parser(Logs normalizer) directly from the solution User Interface (e.g. If Product	
	A is mapped to Parser B, solution must provide the capability to manually map Product A	
	to Parser A)	
103	The solution must retrofit virtually any application with logging capability that may not	
	already be available, even custom applications	
	tention and Archiving	
104	The solution must provide the ability to define multiple retention policies based on time	
	periods with a minimum of logs must be stored Three (3) Months On-line and One (1) Year Off-Line Retention, available in an easily accessible storage and immediate available for	
	analysis (eg. Online, archived or restorable from backup), storage allocation, device type,	
	governance, etc.	
10E	The solution must enforce data retention policies automatically without necessitating	
105	manual data disposition or clean-up efforts.	
106	The solution must provide the ability to suspend the retention policy manually and allow	
100	administrators to increase the retention period dynamically for the purposes of evidence	
	preservation in the event of pending litigation.	
107	The solution must integrate with existing NAS environment for storing log archives in a	
107	secure, easily retrievable manner. Logs must easily be restored for investigations.	
108	The solution must provide a simple interface to schedule the compression and archiving	
100	of log data to a NAS system	
109	The solution must provide a simple interface to manually archiving log data to a NAS	
103	system	
110	The solution must provide a simple interface to manually restore log data from a NAS	
-10	system back to the log management system for historical analysis and reporting.	
Repor	ting and Visualization	
111	The solution must provide pre-defined, out-of-the-box reports for Operations, Security	
	and Compliance that can easily be modified by customers.	
112	The solution must provide additional modules that can be added to the log management	
10911001117		

The solution must provide a level of confidence that reporting will continue to work and	
not have to be modified if a particular technology, such as a Firewall or IPS product, is	
replaced with a newer product or vendor. The reports should continue to run and	
include the new technology into the report criteria automatically.	
The solution system reporting engine must provide the ability to filter, highlight, and	
modify various report functions at runtime. This should include the ability to selectively	
define which device group or storage partition to report upon.	
The solution must be capable of generating alerts based on filter pattern matches for	
operational health monitoring.	
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Malicious Website	
	not have to be modified if a particular technology, such as a Firewall or IPS product, is replaced with a newer product or vendor. The reports should continue to run and include the new technology into the report criteria automatically. The solution system reporting engine must provide the ability to filter, highlight, and modify various report functions at runtime. This should include the ability to selectively define which device group or storage partition to report upon. **Ng** The solution must be capable of generating alerts based on filter pattern matches for operational health monitoring. In addition, the solution system must provide historical, threshold alerts, configured from saved search queries. The solution must provide pre-defined alerts and provide the ability to re-use pre-defined filters and customer created filters as alert criteria The solution must provide options of how alerts are delivered to Security Operation Center (SOC) team operations or security personnel. At a minimum the options must include reporting to the web console, send an email or generate an SMMP trap to an external management system. The solution must be capable of doing all three concurrently for each alert. The solution must be able to generate alerts based on below best practices Used Cases to various type of threats: Brute force attempt Domain Name Server (DNS) Reconnaissance Denial of Service/ Distributed Denial of Service (DOS/DDOS): DoS/DDoS attacks 10,000 in 15 minutes Anti-virus failed to clean or quarantine Email with Malicious attachment Database connections: unsuccessful connection attempts. Device out of compliance (antivirus, patching, etc.). Excessive SMTP traffic outbound Excessive port blocking attempts from anti-virus or other monitoring systems Excessive port blocking attempts from anti-virus or other monitoring systems

 Logs deleted from source Suspicious traffic to known vulnerable host · Unauthorized subnet access to confidential data · Port Scan IPS from External to Internal Ransomware Infection Sinkhole Attack System Compromise: Command and Control (CnC) communication System Compromise: Suspicious Behavior Waterhole attack • IRC Connections proceeded by Server Initiated Connection to Dynamic Hosts Login to sleeping account: Login attempt to account that was unused for last • Admin Login Fail: Admin 3 Failed logins to any system within 24 hours • Freq. Account Locked: Frequent account locked 3 in 7 days [3/7d] Login 1 to many: Login attempt from 1 station to more than 2 accounts Login at off hours Night: Admin login in non-working hours 22:00-06:00 Sunday • Login more than 2 to 1: Login attempt from 3 stations to 1 account Login Root: Login Directly to Root and not via "SU" Malware Infections • Multiple Account Locking: Multiple locked accounts from same source IP Multiple changes from administrative accounts • Same account different countries access attempt within 5 days (user traveled abroad) • SMTP traffic from an unauthorized host. • Privilege Elevation: Permissions were changes from user to Admin • Threat Intel Feed: IOCs detection Trojan Infection Virus Found Vulnerable Software Version Detected Network Traffic Capture and Analysis The solution must be able to capture network traffic via network SPAN port of network tap and analyze it at real time The solution must be able to correlate collected network traffic with logs for analysis via 125 a single unified user interface 126 The solution must be able to capture, extract metadata, fully reassembles and globally normalizes network traffic at layers 2-7 of the OSI model The solution must ingest network packets with real-time capture and analysis 127 capabilities The solution must support extraction of Packet Capture (PCAPs) for further 128 investigation. The solution must also support Application Programming Interface/Software Development Kit (API/SDK) commands for interfacing with 3rd party The solution must support event reconstruction in the following representation: . Details . Text . Hex

The solution must provide out of the box SSL decryption capabilities for incoming or

The solution must support the ability to decode base64 encoded network traffic natively

. Packets . Web . Mail

on the UI

lateral network traffic

130

122	The relation would applied ability to detect statistical projection in naturally service by	
132	The solution must provide ability to detect statistical variation in network session by using of Entropy calculation. The Entropy value must be represented as a meta data in	
	the platform	
133	To provide an open database format, the solution must support pcapng-formatted	
	database as an option (apart from vendor's proprietary database) for network traffic	
	collection data	
134	The solution must have a 7 days Online RAW Data Packet Retention and 30 days Offline	
110,000	META DATA Packet Retention.	
Event :	Stream Analysis	
135	The solution must provide advanced event stream analytics such as correlation and	
	complex event processing at high throughputs and low latency.	
136	The solution must support the use of Event Processing Language (EPL) to express	
	filtering, aggregation, and joins, possibly over sliding windows of multiple event series. It	
	also includes pattern semantics to express complex temporal causality among events	
	(followed-by relationship).	
137	The proposed event stream analysis platform must support a scale-out architecture	
131	based on performance demands, with single node processing rate of 100,000 events per	
	second (EPS).	
138	The proposed event stream analysis platform must provide both wizard-based creation	
	of logic expressions, as well as the declarative based programming-like syntax language	
	for greater flexibility and advanced capabilities.	
139	The proposed event stream analysis platform must be able to send out Email, SNMP and	
	Syslog alerts when the streaming of log events matches predefined logic expressions.	
140	The proposed event stream analysis platform must be able to send notifications in the	
_ ,0	format customized using templates.	
141	The proposed event stream analysis platform must provide data science techniques to	
	identify new and unknown C2 domains by focusing on behavior through packets and	
	logs analysis and providing an aggregated score based on minimally the following	
	behavior:	
	- Beaconing behavior	
	- Rare domains	
	- Rare agent string	
	- Missing referrers	
	- Domain age	
Integra		
142	The solution must allow the automatic transmission of asset information and criticality	
142	rating from Governance Risk and Compliance (GRC) solutions into the analytics platform,	
	and to make use of these enriched data to define alerts and build dashboards or reports.	
142	The solution must be able to send data feed from DLP to the analytics platform. Data	
143		
	feed should include Source host name, source IP address, type of data resides on the	
111	host, severity of sensitivity of the data and information.	
144	The solution must be able populate/update the Asset Database in the GRC solution with	
	the heat maps of assets with sensitive information discovered by DLP, thus providing	
	and facilitating data sensitivity factor into determining asset prioritization in the GRC	
	solution. The updating/populating should be natively provided and can be automated or	
	scheduled.	
145	Versions of the solution (existing and 1 version before existing) must be performed fully	
82000	via the GUI and not via command line	
146	The solution must be able to integrate to LandBank's existing Security Orchestration,	
	Automation and Response (SOAR) solution.	
	Intelligence	
147	The solution must have a bundled Threat Intelligence Feed of the same brand of the	

-	DIFFA C. C.	
4.40	SIEM Software. The solution must provide advance threat intelligence content from multiple threat	
148		
	sources to enrich both captured network traffic for contextual analysis.	- V-0
149	The solution must have dedicated research team to directly input threat intelligence into	
the analytics platform. 150 The solution must allow customized feeds to label internal network segments for		
150		
454	additional contextual information during pivoting of investigation data.	
151	The solution must allow customized feeds to label the functionality of internal servers	
for additional contextual information during pivoting of investigation data. 152 The solution must allow customized feeds to label the criticality of internal servers for		
152		
152	additional contextual information during pivoting of investigation data.	
153	The solution shall allow participation of intelligence sharing within a closed community.	
154	The solution must come with live cyber security feed that the following information:	
	New/Updated Correlation Rules	
	New/Updated Event Source Parsers	
	- Dynamic DNS Domains	
	· File Upload Sites	
	· High Risk File	
	· Hijacked	
	IDefense Threat Indicators Domain Malurase Domain List	
	Malware Domain List Malware Domains	
	Malware Domains Malware IP List	
	Malware IP List MaxMind ASN	
	Palevo Tracker Domains	
	Palevo Tracker Domains Palevo Tracker IPs	
	Third Party IOC IPs Tor Exit Nodes	
	· Tor Nodes	
	· url-shortening-services.zip	
	WikiLeaks Domains	
	Zeus Domain Tracker	
	· Zeus Tracker	
155	The solution must allow the ingestion of internal/custom threat intelligence feeds and	
133	support Structured Threat Information Expression/Trusted Automated Exchange of	
	Intelligence Information (STIX/TAXII) format.	
156	The solution must be able to automatically map external IP addresses with external	
130	threat intel platform and automatically makes risk assessment containing risk indicators	
	information such as if the IP address is blacklisted by third party vendors or by	
	community (other customers)	
Endno	int Detection and Response License and Integration	
157	The solution must have a bundled a COMPLIMENTARY End Point Detection and	
137	Response license for 1000 users. The EDR license (1000 users) bundle should be the	
	same brand of the SIEM Software.	
158	The Solution must be able to integrate to LandBank's existing Endpoint Detection and	
139	Response solution.	
150	The Solution must be able to provide a complementary end point solution part of the	
159	same user interface and platform that perform behavioral based analytics on endpoints	
	same user interface and platform that perform behavioral based analytics on emponits	
	that does not solely rely on signatures for threat detection	
160	that does not solely rely on signatures for threat detection.	
160	that does not solely rely on signatures for threat detection. The solution must provide an intelligent risk-level scoring system that is determined by behavior/characteristic of the artifact being analyzed and also leverage on machine	

161	The solution must provide endpoint monitoring capabilities that does not only analyses			
	and detect threats when scans are triggered. The solution should provide capabilities			
	that monitors processes as they are loaded into endpoint's memory			
162	The solution endpoint agents will operate on kernel-level of the endpoint and monitor			
	the following to detect threats			
163				
164	Delivery of whitelisted signatures to perform hash comparison (determine malicious			
	modules) must be provided via a live feed provided through a cloud-based threat-intel			
	deployment model			
165	The solution must support the ability to perform full scan. In each scan, it must perform			
	an inventory of all files loaded in memory (executable, DLLs, Drivers etc) as well as all			
	files configured to run automatically (Tasks, services, autoruns).			
166	The solution must support agent deployments on Windows, Linux and Mac Operating			
	System			
Scalab				
167	The solution must be able to scale when the monitored network throughput increases			
	by adding more capturing nodes.			
168	The solution must be able to scale when the captured network or the retention			
	requirement increases by adding capacity to the data store.			
169	The solution must be able to scale when the event sources throughput increases by			
20100017000	adding more capturing nodes.			
170	The solution must be able to scale when the log events or the retention requirement			
	increases by adding capacity to the data store.			
171	When scaling the solution when in operation, it must not cause any downtime or periods			
	where the network traffic not being captured or monitored.			
The space	n Health and Maintenance			
172	The data store must use First In First Out (FIFO) method to rotate stale captured traffic			
	out of the system. It should be automatic and self-staining; do not require an operator			
	to routinely manage the data store.			
173	The solution must be able to provide dashboard view on the performance of the			
	systems.			
174	The solution must support centralized remote patching or updating of the components,			
	and across geographically distributed setups.			
Securi				
175	The solution must support secure communication between the components.			
176				
177	detect any modification on the stored data.			
177	The solution shall support audit trail logging of users and system activities.			
178	The solution shall be able to retain the audit trails for at least 90 days.			
179	The solution must be able to support role based access control.			
180	The solution must support 2-factor authentication.			
181	The solution must allow the configuration of customized login banner.			
182	The solution must support data obfuscation on the meta data to allow data privacy			
	officer or administrator to identify and restrict access using roles and permissions to			
	personally identified data (Ability to choose meta to designate as sensitive and			
100	obfuscate it) The solution must provide conshility to limit expecuse of mote data and raw content			
183	The solution must provide capability to limit exposure of meta data and raw content			
	using a combination of techniques as shown below: . Data obfuscation (obfuscation of meta values for privacy-sensitive meta keys with an			
	optional salt)			
	. Data retention enforcement			
	. Data retention emorement			

	. Auditing logging	
Mainte	enance and Ongoing Support	
184	The supplier must provide follow the sun support structure offering 24/7 customer	
	support via email or phone call	
185	All support call must be directly supported by the supplier. There must be a local support	
	(Non-Partner) that can converse using Filipino language.	
186	Provide flexibility for customer to choose between 2 maintenance structure	
187	a. Basic Support – For non-mission-critical environments where business-hours	
	support meets your needs (8am-5pm customer local time, Monday through Friday).	
188	b. Enhance Support – 24x7 around-the-clock remote support and access to product's	
1700000	global network of support centers for troubleshooting	
189	The supplier must have support team physically in-country and local office with in-	
103	country representative from product vendor (Excluding partners and distributors)	
Collah	oration	
190	The Supplier must provide a physical visit to reference customer's production Security	
130	Operations Center using vendor's solution	
191	The Supplier must make available training for customized network parsers training (e.g.	
131	If a specific Network Protocol for network packets collection is not available out-of-the-	
	box, vendor should have training on creation of network parsers)	
Sunnli	er's Eligibility Requirements	
192	The supplier must be at least five (5) Years of existence in the IT Industry. Information	
132	should be based from SEC (Security and Exchange Commission) incorporation	
	information, that the vendor is at least five (5) years. The bidder must submit a notarize	
	certification from them with reference to SEC documents.	
102	The supplier must be an authorized reseller or distributor of the brand being offered.	
193	Must submit certification from distributor or principal.	
104	The principal represented by the supplier must have a local Technical manager or	_
194	Information Technology (IT) support engineers to support the installations,	
	configurations and 24x7 uptime services within the warranty period. Must submit	
	Certificate of employment and Resume/Curriculum Vitae (that the local IT support	
	engineers has at-least 5 years work experience in handling of the product being offered	
	or other related security devices, include list of trainings and seminars attended)	
105	Three (3) years warranty on hardware and software. Warranty shall also cover any	
195	reconfiguration/integration after successful implementation. (The warranty certificate	
100	will be submitted by the winning bidder)	
196	The supplier must have a local helpdesk to provide 24x7 technical assistance. Must	
	provide detailed escalation procedure and support including contact numbers and email	
107	addresses.	
197	The supplier must have a dedicated Project Manager (PM) to oversee the project. Must	
	submit Certificate of Employment and Resume/Curriculum Vitae (that the PM has at-	
	least 5 years work experience and handled at least. One (1) Commercial or Universal	
	bank and one (1) non-bank clients as proof of his/her experience on how to handle	
	projects.)	
198	The supplier must have at-least three (3) installed base of same solution or complex	
	technology like Application Programming Interface (API) Management, Security	
	Information and Event Management (SIEM) wherein one (1) is a Universal or	
	Commercial Philippine Bank. Must submit list of installed base with client name, contact	
	person, address, telephone number and email address.	
	ry Terms and Condition	
191	Delivery after receipt of NTP: 60 calendar days	
192	Installation will start 7 calendar days after delivery and will end 90 calendar days after.	

LBP SECURE FILE TRANSFER FACILITY REGISTRATION FORM

Name of Participating Bidder/"Company"				
Complete Address of the Company:		Contact Number/s:		
AUTHORIZED LBP SECURE FI	LE TRANSFER USER/S:			
Name of Authorized Representative:	Official Email Address:	Contact Number/s:		
TERMS AND CONDITIONS:				
The Company, through its Authorized	User/s, shall:			
Use LBP's Secure File Transfer f the purpose of online submission	Facility to securely transmit files to LB of bidding documents.	P Procurement Department only for		
2. Be responsible for the confidentia	ality of its assigned log-in credentials. (i.e. assigned user ID)		
3. Only upload agreed upon file formats and shall not upload any file/s containing inappropriate content, material that violates or infringes in any manner on the intellectual or proprietary rights of others, and any malwares, software virus, "Trojan Horse" program, "worm" or other harmful or damaging software or software component.				
4. Agree and ensure that the computing devices to be used for LBP's Secure File Transfer Facility have the updated anti-virus software and operating system security patches, as minimum requirements in order to establish connectivity, to maintain and ensure the security, integrity and availability of the LBP Secure File Transfer Facility.				
 Agree not to use a public wi-fi/hotspot such as but not limited to those offered in coffee shops, malls, restaurant or hotels to access into the LBP Secure File Transfer Facility. 				
Agree that LANDBANK may revoke, block, or permanently disallow the use of this facility without prior notice due to reasons that may compromise the Bank's security.				
AGREEMENT:				
As an Authorized User, I hereby agree:				
To the above terms and conditions Not to disclose any confidential information regarding the LBP Secure File Transfer Facility. To avoid using unauthorized users/computers to input credentials; and That unauthorized dissemination of information about the LBP Secure File transfer Facility shall be considered a security breach and is ground for the immediate termination of the account.				
Authorized User (Signature over Printed Name)				

Please print N/A in blank spaces

Questronix Clarification	LBP Response
1. Does the vendor should also provide Top of Rack Switches? a. If yes, what is the connectivity of the existing switch for the downlink connection to ToR? b. Do we have to provide a transceiver for the existing ToR/Core switches? If yes, may we know the exact model of the switch? c. What is the network speed from the ToR to existing ToR/Core Switches? d. What is the port of the existing ToR/Core Switches to connect to the ToR that the vendor will provide? BaseT or SFP+? e. How long is the required cable from the ToR to existing ToR/Core Switches? f. What is the distance between the existing core switch and TOR switch? g. Do we need to provide PDU? if no, what is the existing PDU	 Yes. vendor to provide Top of Rack switches (2) units of Top of Rack switch of at-least 24Fixed Ports 1GbE/10GbE SFP+ Ports and 4 Fixed 40GbE QSFP+ Ports with at-least 2 Expansion Slots. The TOR Switch configuration should already include the required Optical/Copper Transceivers to connect the HCI Infra to the Landbank Local Area Network (LAN). Each TOR Switch should be configured with Redundant Power Supply, Supports both IPv4 and IPv6 and Virtual Chassis Technology. Other details to be provided once declared as the lowest complying bidders
2. What is the machine type and model of your core switch? Is this 10GB or 1Gb? Do you have spear transceivers on it? If none, can you provide the details of the transceivers?	To be provided once declared as the lowest complying bidders
3.Do we need to provide Rack Cabinet and peripherals?	3. No need to provide
4. Are there are required cabling for data and power?	4. Yes. Atleast for the patch cord and power cords.
5.May we know the location of the 4 HCl Nodes to be delivered? Is this Prod only?	5. LBP Head Office. Production only
6.Is this fresh installed or there are physical data/VMs to be migrated? If there are migration can you provide the list of it? will this be VM-to-VM or physical to Virtual Migration? How many VMs do we need to migrate?	6. Fresh installation.
7.Do you have requirement on the raid level for the SSD's and HDD's?	Replication Factor 2 (RF2) or equivalent to RAID 10
8.In item no. 14, what this means provide support usage of 3rd party storage? Do you need to connect on a external storage? Or internal HDD?	8. Yes. We have an existing NAS storage to be use for archiving.
9.For Training, is this knowledge transfer or do we need to provide formal training? If formal training, do you need to be certified and how many attendees from LBP? Can we do the training remotely if formal training due to pandemic?	9. Formal Training. We can do online training if still in the Pandemic.

MDI Inc. Clarification	LBP Response
1. Raised during last Friday pre-bid: In the HCI TOR	1. The HCI Infra to support the SIEM Software Solution
document, kindly confirm again if the four (4) HCI	should already include the VMware Hypervisor
nodes need to be configured with the required	licenses for all 4 HCI Nodes as the recommended
Hypervisor Licenses? And is the preferred Hypervisor	Hypervisor platform for the SIEM Software.
is vMware?	
2. Raised during last Friday pre-bid: In the HCI TOR	2. The HCI Infra should also include two (2) units of
document, kindly confirm if the Top of Rack (TOR) switches should also be included in the HCI Infra,	Top of Rack switch of at-least 24Fixed Ports 1GbE/10GbE SFP+ Ports and 4 Fixed 40GbE QSFP+
where in all required Optical Transceivers and Cables	Ports with at-least 2 Expansion Slots. The TOR Switch
are included? Are the two (2) units TOR Switch is	configuration should already include the required
configured with redundant power supply	Optical/Copper Transceivers to connect the HCI Infra
	to the Landbank Local Area Network (LAN). Each TOR
	Switch should be configured with Redundant Power
	Supply, Supports both IPv4 and IPv6 and Virtual
	Chassis Technology.
3. Raised during last Friday pre-bid: In reference to	3. For Log or EPS Capacity, The 350G per day log
the Section VI: Schedule of Requirements, what is the	capacity is equivalent to 7,500 eps
equivalent Events Per Seconds (EPS) capacity of the	
given 350Gb Log capacity per day? Kindly confirm the	
7.5k eps response of Sir Archie.	
4. Additional Inquiry: In the TOR, specifically for	4. For UEBA, minimum 1000 user licenses is required
Analytics Platform (item 59-80) may we know the	for pilot project (Item No. 59-80 of the TOR)
required number of UEBA licenses/agents needed to	29 70 100 1000
be bundled in the SIEM software?	
5. Additional Inquiry: In the TOR, specifically for the	5. On Log Retention, the complete requirement
SIEM Log Retention (item 103-105), aside from the	should be 3 Months On-line and 1 Year Off-Line
three (3) months On-line retention period	Retention (item No. 103 of the TOR)
requirements, may we know the number of retention	
period (months) for the Off-line data?	
6. Additional Inquiry: In the TOR, specifically for	6. On Packet Retention, the complete requirement
Network Traffic Capture and Analysis (item 119 - 128),	should be 7 days Online RAW Data Packet Retention
what is your required retention period same as my item#5 question for On-line raw packet retention and	and 30 days Offline META DATA Packet Retention. (Item No. 119-128 of the TOR)
Offline meta-data retention for Packet Capture?	(Item No. 119-128 of the Tok)
7. Additional Inquiry: In the TOR, specifically for	7. In reference to the Threat Intel Section of the TOR,
Threat Intelligence (item 141 - 149), may we confirm if	must bundled Threat Intelligence Feed of the same
the SIEM requirement needs to include a Threat	brand of the SIEM Software, (Item No. 141 - 249 of the
Intelligence Feed license/subscription for the same	TOR)
SIEM brand being offered, aside from Landbank's	Total
current Threat Intel platform that will be integrated to	
the SIEM?	
8 Additional Inquiry: In the TOR, specifically for	8.In reference to the EDR License and Integration
Endpoint Detection and Response License and	Section of the TOR, must bundled a COMPLIMENTARY
Integration (item 150-158), may we know the exact	End Point Detection and Response license for 1000
number of EDR agents to be included with the SIEM	users. The EDR license (1000 users) bundle should be
Software as complimentary EDR license.	the same brand of the SIEM Software. (Item #150-158
	of the TOR,)