REQUEST FOR PROPOSALS ON SECURITY AUDIT SERVICE 2020

Version 1.0
4 February 2020
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1. SUMMARY

1.1 HKIRC has been enhancing information security by making reference to the ISO/IEC 27001 standard since 2007. In April 2019, HKIRC achieved certification in the ISO/IEC 27001:2013 standard to demonstrate its commitment to information security. With reference to this international standard, an information security management system (ISMS) framework and a multitude of security controls and measures have been put into operation since 2007.

1.2 As part of the organization’s strategy and commitment to foster information security, HKIRC is looking for a consultancy firm or IT security professional(s) (“the Contractor”) to provide security audit service.

1.3 The Contractor selected by HKIRC will conduct an audit on, among others, the high-level system architecture, servers, network, databases, applications, workstations, Wi-Fi, as well as the effectiveness of the existing DDoS mitigation service and data backup strategy. It is also responsible for conducting a mock phishing test and a DNSSEC Practice Statement Audit. The required services are detailed in section 4.2 of this document.

1.4 The Tenderer shall provide two engagement options. First one being a security audit service for three consecutive years starting 2020 and the second one for a single year 2020.

1.5 The Contractor shall conduct their audit independently with no influence on the auditing process by staff and directors of HKIRC. This arrangement will ensure high credibility of the security audit reports. The Contractor shall identify any design and operational gaps and provide feasible solutions with reference to industry best practice.

1.6 Parties interested in providing this service shall submit Expression of Interest (EOI) by email to HKIRC proposal contacts listed under “Electronic Copy” in APPENDIX D on or before 10 February 2020.

1.7 For those who have submitted EOI, they should submit proposal to HKIRC no later than 5:30 pm on 18 February 2020. The Tenderer must provide their information as requested in the proposal cover page (see APPENDIX D).
2. DEFINITIONS

2.1 The following terms are defined as in this section unless otherwise specified.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audit Committee</td>
<td>The committee established by the HKIRC’s board of directors focusing on auditing matters. The committee members are drawn from members of the board of directors.</td>
</tr>
<tr>
<td>The Contractor</td>
<td>The company providing the Services requested in this RFP.</td>
</tr>
<tr>
<td>HKIRC</td>
<td>Hong Kong Internet Registration Corporation Limited. It is the company requesting proposal for the Services.</td>
</tr>
<tr>
<td>HKDNR</td>
<td>Hong Kong Domain Name Registration Company Limited, a wholly-owned subsidiary of HKIRC.</td>
</tr>
<tr>
<td>ISMS</td>
<td>Information Security Management System. It consists of an information security organization and a set of policies, guidelines and procedures concerned with information security management.</td>
</tr>
<tr>
<td>RFP</td>
<td>Request for Proposal</td>
</tr>
<tr>
<td>The Services</td>
<td>The consultancy services with requirements stipulated in section 4 of this document.</td>
</tr>
<tr>
<td>Tenderer</td>
<td>The company who will submit proposal to provide the Services.</td>
</tr>
</tbody>
</table>
3. **BACKGROUND**

3.1 **ABOUT HKIRC**

3.1.1 Hong Kong Internet Registration Corporation Limited (HKIRC) is a non-profit-distributing and non-statutory corporation responsible for the administration of Internet domain names under '.hk' and '香港' country-code top level domains. HKIRC provides registration services through its registrars and its wholly-owned subsidiary, Hong Kong Domain Name Registration Company Limited (HKDNR), for domain names ending with '.com.hk', '.org.hk', '.gov.hk', '.edu.hk', '.net.hk', '.idv.hk', '.公司.香港', '.組織.香港', '.政府.香港', '.教育.香港', '.網絡.香港', '.個人.香港', '.hk' and '.香港'.

3.1.2 HKIRC and HKDNR endeavor to be:

(a) Cost-conscious but not profit-orientated
(b) Customer-orientated
(c) Non-discriminatory
(d) Efficient and effective
(e) Proactive and forward-looking

3.1.3 More information about HKIRC and HKDNR can be found at [https://www.hkirc.hk](https://www.hkirc.hk) and [https://www.hkdnr.hk](https://www.hkdnr.hk) respectively.

3.1.4 HKIRC and HKDNR are listed as public bodies under the Prevention of Bribery Ordinance (Cap 201).

3.2 **CURRENT ENVIRONMENT DESCRIPTION**

3.2.1 Number and type of servers, network equipment, databases, applications, workstations and Wi-Fi access points, will be provided to Tenderers who have submitted expression of interest and have signed both the Non-Disclosure Agreement (NDA) and the Information Security Compliance Statement (refer to section 5) for the sole purpose of fee estimation under this RFP by the Tenderer.
4. **THE REQUIRED SERVICES**

4.1 **PROJECT OBJECTIVES**

4.1.1 The primary project objectives are to:

(a) assess the technical security risks related to the configuration of information systems in HKIRC\(^1\). The Contractor shall identify and recommend safeguards with the aim of strengthening the security configuration to an acceptable level;

(b) evaluate compliance with HKIRC information security policies and standards, as well as the effectiveness of security controls being implemented; and

(c) ensure that all identified risks have been mitigated or reduced to an acceptable level by performing a follow-up review.

4.1.2 The audit period to be covered for items 4.2.1 to 4.2.9 is from 6 July 2019 to 30 June 2020 for the first year audit; from 1 July 2020 to 30 June 2021 for the second year audit; and so on for the third year. For item 4.2.10 (DNSSEC Practice Statement Audit in the second year), the audit period is from 1 May 2019 to 30 April 2021.

4.2 **SCOPE OF SERVICE**

The following defines the scope of security audit service to be provided by the Contractor. Apart from the actual audit, a follow-up review on the audit findings is required for all items listed below.

(a) There are 10 parts to the scope of service. Tenderers need to quote for all parts. HKIRC reserves the right to take on all or any parts of the services. Tenderers are required to provide cost breakdown for each part. Refer to section 10.5.

(b) Both credentialed and non-credentialed vulnerability scanning should be performed. This requirement applies to all types of vulnerability scans outlined in the sub-sections below.

(c) The auditor shall include all servers, network equipment, databases, applications, workstations, Wi-Fi access points that were brought to their attention during vulnerability scanning. In other words, the sampling rate is 100%.

4.2.1 System Architecture Design Review

(a) Review the network and system architecture such as virtual machine infrastructure from a confidentiality, integrity and availability perspective. The review aims to find out whether there are significant loopholes or design flaws in the existing infrastructure at a high-level. The review shall cover the adoption of Office 365 which was rolled out in January 2020.

\(^1\) Both HKIRC and HKDNR share the same IT infrastructure and staff resources. The audit objectives, scope and deliverables are expected to cover both companies.
4.2.2 Server and Network Security Audit

(a) The Contractor is required to carry out the following assessments on the sampled servers and network equipment. These include, but not limited to, firewall, router, switches, load balancers, IDS/IPS, NAS, physical servers and virtual servers.

(b) Perform internal vulnerability scanning and penetration testing to identify security weaknesses of servers and network equipment from within the HKIRC internal network.

(c) Perform external vulnerability scanning and penetration testing to identify security weaknesses of servers and network equipment facing the Internet.

(d) Evaluate the security settings of the servers and network equipment against the company-wide security standards and baselines.

(e) Use automated or manual techniques to examine the security settings and security rules of the servers and network equipment to ensure that they are sufficiently protected from hackings and security attacks.

4.2.3 Database Security Audit

(a) Review the security settings of sampled database servers with an aim to identifying any database security issues, misconfigurations, and vulnerabilities.

4.2.4 Application Security Audit

(a) Review the security settings of sampled applications, including their web servers and application servers. The audit aims to uncover the security control weaknesses of web-based applications.

(b) Perform internal vulnerability scanning and penetration testing to identify security loopholes of sampled web-based applications from within the HKIRC internal network.

(c) Conduct external vulnerability scanning and penetration testing to identify security loopholes of sampled Internet-facing applications.

4.2.5 Workstation Security Audit

(a) Perform internal vulnerability scanning and penetration testing to identify security weaknesses of sampled workstations from within the HKIRC internal network.

(b) Evaluate the security settings of the sampled workstations against the company-wide security standards and baselines.

(c) Use automated or manual techniques to examine the security settings and configurations of sampled workstations to ensure that they are sufficiently protected
from hackings and security attacks.

4.2.6 Wireless Network Security Audit

(a) Discover rogue access points within the HKIRC office.

(b) Perform vulnerability scanning on sampled, legitimate HKIRC wireless access points.

4.2.7 Audit on DDoS Impact

(a) Review the existing DDoS mitigation service agreement to determine whether there are sufficient protection to safeguard the HKIRC network against common:

(i) volume based attacks;
(ii) protocol attacks; and
(iii) application layer attacks

based on the prevailing trend in DDoS at the time of the audit.

(b) Perform a mock DDoS attack to test the readiness of the DDoS mitigation service provider and internal staff in responding and handling such attacks. The simulation attack should be conducted in a manner not affecting the normal operation of HKIRC.

4.2.8 Data Backup and Recovery Audit

(a) Review the current HKIRC data backup and recovery strategy and procedures. This shall cover all kinds of routine backups configured in servers, network equipment, databases, file servers, emails, etc.

4.2.9 End User Awareness Audit

(a) Test the security awareness of HKIRC’s users by conducting a surprise mock phishing exercise. The sampling size should be no less than 75% of the total number of staff.

4.2.10 DNSSEC Practice Statement (DPS) Audit

(a) Perform compliance audit on the HKIRC DNSSEC environment against the published DPS. This part is only required for the second year security audit in a three-year proposal. Please refer to section 10.1.

4.3 DELIVERABLES

4.3.1 The Contractor shall develop and maintain a detailed project plan, provide regular project status updates, and deliver monthly progress reports to the HKIRC project team.
4.3.2 For each of the items listed in section 4.2 above, HKIRC expects detailed description of the findings as well as the resolutions, including the corrective, preventive and detective measures applicable to HKIRC’s production environment, in the audit report.

4.3.3 Security audit report and the DNSSEC Practice Statement Audit report format and assessment severity classification:

(a) All reported findings should be characterized by either of the following:

| Server / Device / IP address | This includes all physical and virtual servers as well as appliances and their operating system. |
| System Applications          | This includes any application that is not part of the operation system (either separately install or compile on the server). |
| User Applications            | Any application that is not part of the installed system application and is created specify for the company’s business. |

(b) Four Assessment Severity Classifications shall be used in ranking the audit findings:

| Critical                      | Issues that could compromise the significant internal control of the HKIRC, which might in turn, cause a direct or immediate adverse business / operational impact to HKIRC. Immediate attention by HKIRC was expected. |
| High                        | Issues that could compromise the important internal control of the HKIRC, which might in turn, cause a direct or adverse business / operational impact to HKIRC. In the short term, attention by HKIRC was expected. |
| Medium                      | Issues that could compromise the internal control of HKIRC, which might in turn, cause a possible adverse business / operational impact to HKIRC. These issues could be addressed in the medium term as there were other compensating controls established in HKIRC in addressing the identified risk or, at present, the risk exposure concerned is small, but this might not be the case if HKIRC business grows/changes. |
| Low                         | Issues that could compromise the internal control of HKIRC, which might not in turn cause a direct or adverse business / operational impact to HKIRC. Nevertheless, rectification of these issues would improve existing internal controls in the long-term, efficiency in HKIRC or ensure HKIRC followed current best practice in internal control. |
4.3.4 DNSSEC Practice Statement Audit (item 4.2.10) requires a separate audit report on its own. Other requirements shall be combined in a single security audit report.

4.3.5 A follow-up review report should be provided upon completion of the follow-up review for all the findings identified in section 4.2. Again, a separate follow-up review report is required for DNSSEC Practice Statement Audit (item 4.2.10).

4.3.6 A presentation to senior management which summarizes the findings as well as the resolutions shall be conducted by the Contractor. Presentation slides are required.

4.3.7 The Contractor shall also provide one briefing session to the Audit Committee. The session aims to explain the security audit findings and resolutions. Presentation slides are required.

4.4 MINIMIZING IMPACT TO PRODUCTION ENVIRONMENT

4.4.1 Most of the vulnerability assessments and penetration tests will be performed against production environment. It is utmost important is to ensure all tests are non-destructive, non-intrusive and the influence on availability and performance of the production system are strictly minimized.

4.4.2 The times at which these tests are performed should be considered carefully, and well communicated to HKIRC.

4.4.3 The Contractor is required to disclose the actual tools to be used to conduct the audits.

4.4.4 Ensure that no malicious software (e.g. computer virus, worm, Trojan horse program), backdoor or anything which would disrupt the operation or lead to compromise of any system is embedded in either the information or its storage media (e.g. in the form of data file, database, document, program code, e-mail, floppy diskette, hard disk, CD-ROM, Internet web page) when they are disseminated and/or exchanged with HKIRC.

4.5 PROJECT MANAGEMENT

4.5.1 The Contractor must assign a project manager who is responsible to develop the project plan, assign project tasks and quality related tasks, implementation of the plan, and ensure the overall quality of the project.

4.5.2 The project manager may adopt project management guides such as Project Management Institute (PMI)’s Project Management Body of Knowledge (PMBOK) Guide.

4.5.3 The project manager shall manage at least the following aspects of the project plus others as necessary: scope, time, cost, quality, human resources, communications, risk, procurement, integration and change control, information security and exception.
4.5.4 In particular, for communications, the Contractor shall provide regular project status updates, and monthly progress reports to the HKIRC project team.

4.6 PROFESSIONAL STAFF REQUIREMENTS

4.6.1 The Tenderer shall have at least five years of experience in providing similar security audit service. They shall provide recent references on at least five such projects in their proposal.

4.6.2 The Tenderer shall propose a project team, which consists of a project manager and at least two team members. The qualification, skills and experience of the project manager and members involved in the assignment should be provided in the proposal. The team MUST be full-time staff directly employed by the Tenderer. Subcontracting is forbidden under this RFP. The requirements of the team are as follows:

(a) The project manager should:
   (i) possess at least 10 years of working experience in IT security; and
   (ii) have obtained CISA, CISM and/or CISSP qualification.

(b) The team members should:
   (i) possess at least 5 years of working experience in IT security; and
   (ii) have obtained CISA, CISM and/or CISSP qualification.

4.7 SERVICE LOCATION

4.7.1 The Services shall be provided in Hong Kong at all HKIRC’s facilities including office and two data centers. The deliverables shall be delivered to the HKIRC’s office.
5. **INFORMATION SECURITY**

5.1 The Tenderer shall be provided with a set of Non-Disclosure Agreement (NDA) and Information Security Compliance Statement after HKIRC received the company’s Expression-of-Interest before the stipulated time. The NDA and the Information Security Compliance Statement shall be signed and returned to HKIRC attached with documents required by the Information Security Compliance Statement before the scheduled deadline. HKIRC will only consider proposals from companies which have signed both the NDA and the Information Security Compliance Statement.

5.2 By signing and returning the Information Security Compliance Statement, the Tenderer acknowledges and agrees that, if the Tenderer is selected as the Contractor, it shall be bounded by, among others, the HKIRC Information Security Policy.

5.3 The Contractor shall comply with the HKIRC Information Security Policy, to the extent that commensurate with its roles and responsibilities. The term “Contractor” hereby refers to all relevant staff members of Contractor and those of any other subcontractors under the Contractor’s purview.

5.4 A copy of the HKIRC Information Security Policy will be provided to the Tenderer upon its request after submission of a duly completed and signed NDA.

5.5 As proposals received by HKIRC are classified as “RESTRICTED”, Tenderers are requested to mark “RESTRICTED” at the center-top of each page in black color. The proposal must be encrypted if transmitted electronically.

6. **ANTI-COLLLUSION**

6.1 The Tenderer shall not communicate to any person other than HKIRC the amount of any tender, adjust the amount of any tender by arrangement with any other person, make any arrangement with any other person about whether or not he or that other person should or should not tender or otherwise collude with any other person in any manner whatsoever in the tendering process. Any breach of or non-compliance with this sub-clause by the Tenderer shall, without affecting the Tenderer’s liability for such breach rules and laws or non-compliance, invalidate his tender.

6.2 Section 6.1 shall have no application to the Tenderer’s communications in strict confidence with his own insurers or brokers to obtain an insurance quotation for computation of tender price and communications in strict confidence with his consultants/sub-contractors to solicit their assistance in preparation of tender submission.

6.3 The Tenderer shall submit to the HKIRC a duly signed warranty in the form set out in Appendix B to the effect that he understands and will abide by these clauses. The warranty shall be signed by a person authorized to sign the contract on the Tenderer’s behalf.

6.4 Any breach of any of the representations and/or warranties by the Tenderer may prejudice the Tenderer’s future standing as a HKIRC’s contractor.
7. OFFERING ADVANTAGES

7.1 The Tenderer shall not, and shall procure that his employees, agents and sub-contractors shall not, offer an advantage as defined in the Prevention of Bribery Ordinance (Cap 201) in connection with the tendering and execution of this contract.

7.2 Failure to so procure or any act of offering advantage referred to in section 7.1 above committed by the Tenderer or by an employee, agent or sub-contractor of the Tenderer shall, without affecting the Tenderer’s liability for such failure and act, result in his tender being invalidated.

8. ETHICAL COMMITMENT

8.1 PREVENTION OF BRIBERY

8.1.1 The Contractor shall not, and shall procure that his directors, employees, agents and sub-contractors who are involved in this Contract shall not, except with permission of Hong Kong Internet Registration Corporation Limited (hereafter referred to as the Organization) solicit or accept any advantage as defined in the Prevention of Bribery Ordinance (Cap 201) in relation to the business of the Organization. The Contractor shall also caution his directors, employees, agents and sub-contractors against soliciting or accepting any excessive hospitality, entertainment or inducements which would impair their impartiality in relation to the business of the Organization. The Contractor shall take all necessary measures (including by way of internal guidelines or contractual provisions where appropriate) to ensure that his directors, employees, agents and sub-contractors are aware of the aforesaid prohibition and will not, except with permission of the Organization, solicit or accept any advantage, excessive hospitality, etc. in relation to the business of the Organization.

8.1.2 The Contractor shall not, and shall procure that his directors, employees, agents and sub-contractors who are involved in this Contract shall not, offer any advantage to any Board member or staff in relation to the business of the Organization.

8.2 DECLARATION OF INTEREST

8.2.1 The Contractor shall require his directors and employees to declare in writing to the Organization any conflict or potential conflict between their personal/financial interests and their duties in connection with this Contract. In the event that such conflict or potential conflict is disclosed in a declaration, the Contractor shall forthwith take such reasonable measures as are necessary to mitigate as far as possible or remove the conflict or potential conflict so disclosed. The Contractor shall require his agents and sub-contractors to impose similar restriction on their directors and employees by way of a contractual provision.

8.2.2 The Contractor shall prohibit his directors and employees who are involved in this Contract from engaging in any work or employment other than in the performance of this Contract, with or without remuneration, which could create or potentially give rise to a conflict
between their personal/financial interests and their duties in connection with this Contract. The Contractor shall require his agents and sub-contractors to impose similar restriction on their directors and employees by way of a contractual provision.

8.2.3 The Contractor shall take all necessary measures (including by way of internal guidelines or contractual provisions where appropriate) to ensure that his directors, employees, agents and sub-contractors who are involved in this Contract are aware of the provisions under the aforesaid sub-sections 8.2.1 and 8.2.2.

8.3 HANDLING OF CONFIDENTIAL INFORMATION

8.3.1 The Contractor shall not use or divulge, except for the purpose of this Contract, any information provided by the Organization in the Contract or in any subsequent correspondence or documentation, or any information obtained when conducting business under this Contract. Any disclosure to any person or agent or sub-contractor for the purpose of the Contract shall be in strict confidence and shall be on a “need to know” basis and extend only so far as may be necessary for the purpose of this Contract. The Contractor shall take all necessary measures (by way of internal guidelines or contractual provisions where appropriate) to ensure that information is not divulged for purposes other than that of this Contract by such person, agent or sub-contractor. The Contractor shall indemnify and keep indemnified the Organization against all loss, liabilities, damages, costs, legal costs, professional and other expenses of any nature whatsoever the Organization may suffer, sustain or incur, whether direct or consequential, arising out of or in connection with any breach of the aforesaid non-disclosure provision by the Contractor or his directors, employees, agents or sub-contractors.

8.4 DECLARATION OF ETHICAL COMMITMENT

8.4.1 The Contractor shall submit a signed declaration in a form (see Appendix C) prescribed or approved by the Organization to confirm compliance with the provisions in aforesaid sub-sections 8.1.1 to 8.3.1 on prevention of bribery, declaration of interest and confidentiality. If the Contractor fails to submit the declaration as required, the Organization shall be entitled to withhold payment until such declaration is submitted and the Contractor shall not be entitled to interest in that period. To demonstrate compliance with the aforesaid sub-sections 8.1.1 to 8.3.1 on prevention of bribery, declaration of interest and handling of confidential information, the Contractor and the sub-contractors employed for the performance of duties under this Contract are required to deposit with the Organization a copy of the internal guidelines issued to their staff.
9. PROJECT SCHEDULE

9.1 The tentative project schedule is proposed below. Contractors should strive to complete the security audit (including the DNSSEC Practice Statement audit) in around 52 working days. Nevertheless, interested Tenderers may propose an alternative project plan in the event that the tentative schedule below is deemed infeasible or subject to high-degree of uncertainty.

<table>
<thead>
<tr>
<th>Project Schedule Tasks</th>
<th>By working day no.</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stage 0: Selection &amp; Appointment of Contractor</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Publish Request for Proposal (RFP)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>2. Submit Expression of Interest (EOI)</td>
<td>N/A</td>
<td>EOI</td>
</tr>
<tr>
<td>3. Sign NDA and Information Security Compliance Statement with all interested Tenderers</td>
<td>N/A</td>
<td>NDA, Information Security Compliance Statement</td>
</tr>
<tr>
<td>4. Deadline for Tenderers to submit proposal and quotation</td>
<td>N/A</td>
<td>Proposal</td>
</tr>
<tr>
<td>5. Recommend Contractor by Selection Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Approve Contractor by Audit Committee</td>
<td>3 March 2020</td>
<td></td>
</tr>
<tr>
<td>7. Draft service agreement</td>
<td>N/A</td>
<td>Draft service agreement</td>
</tr>
<tr>
<td><strong>Stage 1: Project Initiation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Sign service agreement with the appointed Contractor</td>
<td>0</td>
<td>Final service agreement</td>
</tr>
<tr>
<td>9. Prepare project plan</td>
<td>5</td>
<td>Project plan</td>
</tr>
<tr>
<td>10. Formation of project organization</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>11. Project initiation meeting</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Stage 2: Implementation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Conduct all reviews listed under section 4.2.1~4.2.9</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>13. Conduct DNSSEC Practice Statement Audit (4.2.10)</td>
<td>30</td>
<td>For 2021 only</td>
</tr>
</tbody>
</table>
### Project Schedule

<table>
<thead>
<tr>
<th>Tasks</th>
<th>By working day no.</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. Conduct presentation to report the findings to senior management</td>
<td>41</td>
<td>Presentation slides</td>
</tr>
<tr>
<td>16. Review security audit reports</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>17. Finalize security audit reports</td>
<td>52</td>
<td>Final audit reports, The DPS Audit report must be delivered before 25 June 2021.</td>
</tr>
<tr>
<td>18. Conduct briefing to Audit Committee</td>
<td>TBC</td>
<td>Presentation slides</td>
</tr>
</tbody>
</table>

**Stage 3: Follow-up Review**

<table>
<thead>
<tr>
<th>Tasks</th>
<th>By working day no.</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>19. Conduct follow-up review on all findings</td>
<td>TBC</td>
<td></td>
</tr>
<tr>
<td>21. Finalize follow-up review reports</td>
<td>TBC</td>
<td>Final follow-up Review Report</td>
</tr>
</tbody>
</table>

**Stage 4: Project Closing**

<table>
<thead>
<tr>
<th>Tasks</th>
<th>By working day no.</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. Return or destroy of all information or documents given to Contractor for audit purpose</td>
<td>TBC</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
1. For project planning, assumes five working days week.
2. The follow-up review is scheduled to commence around three months from the completion date of the audit (step 17). The exact timing will be agreed with the Contractor in due course.
10. **ENGAGEMENT OPTIONS & PAYMENT SCHEDULE**

10.1 Interested Tenderers shall provide two engagement options:

(a) One security audit and follow-up review per year for three successive years starting 2020. The DNSSEC Practice Statement Audit is only performed in the second year;

(b) One single security audit and follow-up review in 2020. No DNSSEC Practice Statement Audit is required in 2020.

10.2 For option 10.1(a), there may be minor change in scope or number of in-scope devices or applications in the second or third year audit. The resulting increase in professional fee shall be absorbed by the Contractor.

10.3 For option 10.1(a), HKIRC reserve the right to exit the three-year contract in 2021 and 2022 at its own discretion, with no penalty whatsoever, by giving the Contractor one month advance notice.

10.4 The proposal shall be submitted on the basis of “fixed lump sum” for providing the required services outline under section 4.2.

10.5 Interested Tenderers shall provide the breakdown of (i) the cost, in Hong Kong Dollars, and (ii) man-day of all required services specified under section 4.2. For option 10.1(a), breakdown by year is also required.

10.6 The Tenderers should make certain that prices quote is accurate before submitting their proposal. Under no circumstances will the HKIRC accept any request for adjustment on the grounds that a mistake has been made in the proposed prices.

10.7 The following payment schedule is recommended but interested Tenderers may propose their own in their proposals. The payment schedule is the same for all three years in option 10.1(a).

<table>
<thead>
<tr>
<th>Milestone/Acceptance of Deliverables</th>
<th>Payment %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Acceptance of project plan</td>
<td>10%</td>
</tr>
<tr>
<td>2. Acceptance of final security audit report, including the DNSSEC Practice Statement Audit report in the second year</td>
<td>70%</td>
</tr>
<tr>
<td>3. Acceptance of final follow-up review report, including the DNSSEC Practice Statement Follow-up Audit report in the second year</td>
<td>20%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
11. SERVICE ACCEPTANCE

11.1 The overall service acceptance can be broken down into acceptances at various levels: -

(a) Services provided and their quality
(b) Deliverables and their quality
(c) Overall quality of the project/service

Under this acceptance framework, the Contractor should fulfil the scope of services described in section 4.2. Interested Tenderers may provide additional acceptance criteria and the related plan in detail in their proposals.

12. SERVICE AGREEMENT NEGOTIATION AND SIGNATURE

12.1 The service agreement will be drawn up between the selected Contractor and HKIRC. HKIRC welcomes the Tenderer’s proposal on a suitable service agreement for the project/service.

12.2 The service agreement must be signed by both parties within two weeks from the project/service award date. If the agreement is not signed within the said period, HKIRC will start the negotiation with the next qualified Tenderer on the selection list.

13. ELEMENTS OF A STRONG PROPOSAL

13.1 All submitted proposal must follow the format as stated in APPENDIX D - HKIRC Proposal Requirements.
APPENDIX A – HKIRC CONTACTS

HKIRC contacts information: -

<table>
<thead>
<tr>
<th>Contacts</th>
<th>Information Security Manager</th>
<th>Head of IT</th>
<th>CEO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hong Kong Internet Registration Corporation Limited</strong></td>
<td>Ken WONG</td>
<td>Ben LEE</td>
<td>Wilson WONG</td>
</tr>
<tr>
<td>Unit 501, Level 5, Core C, Cyberport 3, 100 Cyberport Road, Hong Kong</td>
<td>+852 23193822</td>
<td>+852 23193811</td>
<td>+852 23193838</td>
</tr>
<tr>
<td>+852 23192303 – telephone</td>
<td><a href="mailto:ken.wong@hkirc.hk">ken.wong@hkirc.hk</a></td>
<td><a href="mailto:ben.lee@hkirc.hk">ben.lee@hkirc.hk</a></td>
<td><a href="mailto:wilson.wong@hkirc.hk">wilson.wong@hkirc.hk</a></td>
</tr>
<tr>
<td>+852 23192626 – fax</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="http://www.hkirc.hk">http://www.hkirc.hk</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If you are not sure about the appropriate person to call, the receptionist can help you.*
APPENDIX B – WARRANTY

To: Hong Kong Internet Registration Corporation Limited (HKIRC)

Dear Sir/Madam,

WARRANTY

(1) By submitting a tender, the Tenderer represents and warrants that in relation to the tender of Security Audit Service 2020:

(a) it has not communicated and will not communicate to any person other than the HKIRC the amount of any tender price;
(b) it has not fixed and will not fix the amount of any tender price by arrangement with any person;
(c) it has not made and will not make any arrangement with any person as to whether it or that other person will or will not submit a tender; and
(d) it has not otherwise colluded and will not otherwise collude with any person in any manner whatsoever in the tendering process.

(2) In the event that the Tenderer is in breach of any of the representations and/or warranties in Clause (1) above, the HKIRC shall be entitled to, without compensation to any person or liability on the part of the HKIRC:

(a) reject the tender;
(b) if the HKIRC has accepted the tender, withdraw its acceptance of the tender; and
(c) if the HKIRC has entered into the contract with the Tenderer, terminate the contract.

(3) The Tenderer shall indemnify and keep indemnified the HKIRC against all losses, damages, costs or expenses arising out of or in relation to any breach of any of the representations and/or warranties in Clause (1) above.

(4) Clause (1) shall have no application to the Tenderer’s communications in strict confidence with its own insurers or brokers to obtain an insurance quotation for computation of the tender price, or with its professional advisers, and consultants or sub-contractors to solicit their assistance in preparation of tender submission. For the avoidance of doubt, the making of a bid by a bidder to the HKIRC in public during an auction will not by itself be regarded as a breach of the representation and warranty in Clause (1)(a) above.

(5) The rights of HKIRC under Clauses (2) to (4) above are in addition to and without prejudice to any other rights or remedies available to it against the Tenderer.
Authorized Signature & Company Chop:

___________________________________________
Name of Person Authorized to Sign (in Block Letters):

Position of Person Authorized to Sign (in Block Letters):

Name of Tenderer in English (in Block Letters):

Date:
APPENDIX C – DECLARATION OF ETHICAL COMMITMENT

To: Hong Kong Internet Registration Corporation Limited (HKIRC)

Contract No.: ________________________

Title: _Security Audit Service 2020_ ______________________________

In accordance with the Ethical Commitment clauses in the Contract:

(1) We confirm that we have complied with the following provisions and have ensured that our directors, employees, agents and sub-contractors are aware of the following provisions:

   (a) prohibiting our directors, employees, agents and sub-contractors who are involved in this Contract from offering, soliciting or accepting any advantage as defined in section 2 of the Prevention of Bribery Ordinance (Cap 201) in relation to the business of HKIRC except with the permission of HKIRC;

   (b) requiring our directors, employees, agents and sub-contractors who are involved in this Contract to declare in writing to their respective company management any conflict or potential conflict between their personal/financial interests and their duties in connection with this Contract, and in the event that a conflict or potential conflict is disclosed, take such reasonable measures as are necessary to mitigate as far as possible or remove the conflict or potential conflict so disclosed;

   (c) prohibiting our directors and employees who are involved in this Contract from engaging in any work or employment (other than in the performance of this Contract), with or without remuneration, which could create or potentially give rise to a conflict between their personal/financial interests and their duties in connection with this Contract and requiring our agents and sub-contractors to do the same; and

   (d) taking all measures as necessary to protect any confidential/privileged information or data entrusted to us by or on behalf of HKIRC from being divulged to a third party other than those allowed in this Contract.

Authorized Signature & Company Chop:

___________________________________________
Name of Person Authorized to Sign (in Block Letters):

Position of Person Authorized to Sign (in Block Letters):

Name of Tenderer in English (in Block Letters):

Date:
## APPENDIX D – HKIRC PROPOSAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Proposal requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission deadline</td>
<td>Please refer to section 1.7 for the proposal submission deadline. If tropical cyclone warning signal No.8 or above or the black rainstorm warning is hoisted on the deadline date, the deadline will be postponed to the next working day without advance notice.</td>
</tr>
<tr>
<td>Delivery address</td>
<td>Hong Kong Internet Registration Corporation Limited</td>
</tr>
<tr>
<td></td>
<td>Unit 501, Level 5, Core C,</td>
</tr>
<tr>
<td></td>
<td>Cyberport 3, 100 Cyberport Road,</td>
</tr>
<tr>
<td></td>
<td>Hong Kong</td>
</tr>
<tr>
<td>Hard copies</td>
<td>Sending hard copies is not mandatory. For sending hard copies, two identical copies of the full proposal are required. The proposal shall be sent to the attention of Grace LEE (Senior Finance Officer) or Peon LIU (HR &amp; Admin Manager).</td>
</tr>
<tr>
<td>Electronic copy</td>
<td>Electronic copy is mandatory. It shall be sent by email to <a href="mailto:grace.lee@hkirc.hk">grace.lee@hkirc.hk</a> and <a href="mailto:peon.liu@hkirc.hk">peon.liu@hkirc.hk</a>; also cc <a href="mailto:ken.wong@hkirc.hk">ken.wong@hkirc.hk</a> and <a href="mailto:ben.lee@hkirc.hk">ben.lee@hkirc.hk</a>. The proposal must be encrypted if transmitted electronically.</td>
</tr>
<tr>
<td>Proposal format</td>
<td>Please refer to section D.2 below.</td>
</tr>
<tr>
<td>Page count</td>
<td>30 pages or fewer.</td>
</tr>
<tr>
<td></td>
<td>Stapled.</td>
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<tr>
<td></td>
<td>Do not bind.</td>
</tr>
<tr>
<td>Font</td>
<td>Electronically published or typed. Times New Roman 12 point font.</td>
</tr>
</tbody>
</table>

Successful Tenderer is the one who submitted a clearly worded proposal that demonstrates the following attributes:

(a) a persuasive section on the company background
(b) international recognize certification for security audit
(c) a strong and flexible service and tools meeting HKIRC requirements with minimum customization
(d) high level of interaction between HKIRC and the Contractor
(e) excellent fit with the capabilities and facilities of HKIRC
(f) strong company and project management team
D.1 PROPOSAL DEADLINE

All proposals must reach HKIRC as stated in section 1.7.

D.2 PROPOSAL CONTENT

The proposal should contain the following. Commonplace information expected under each major heading are elaborated on the next page.

1. Cover Page
2. Executive Summary
3. Conflict of Interest Declaration
4. Company Background
   4.1 Financial Situation
   4.2 Track Records
   4.3 Organization and management team
   4.4 Project team with credentials
   4.5 Company credentials
   4.6 Staff credentials
5. Methodology
6. Project management methodology
7. Understanding of our requirements
8. Knowledge and Advices on Projects/Services
9. Deliverable and Services level
10. Proposed Cost of Services and Payment Schedule
11. Implementation Time Table
12. Commercial and Payment Terms. e.g. Compensation for delay.
1. COVER PAGE

Prepare a non-confidential cover page with the following information in the order given.

<table>
<thead>
<tr>
<th>Cover Page</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Title</td>
<td>Security Audit Service 2020</td>
</tr>
<tr>
<td>Project Manager</td>
<td>Name:</td>
</tr>
<tr>
<td></td>
<td>Title:</td>
</tr>
<tr>
<td></td>
<td>Mailing address:</td>
</tr>
<tr>
<td></td>
<td>Phone:</td>
</tr>
<tr>
<td></td>
<td>Fax:</td>
</tr>
<tr>
<td></td>
<td>Email:</td>
</tr>
<tr>
<td>Company</td>
<td>Contact person:</td>
</tr>
<tr>
<td></td>
<td>Title:</td>
</tr>
<tr>
<td></td>
<td>Company name:</td>
</tr>
<tr>
<td></td>
<td>Mailing address:</td>
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<td></td>
<td>Phone:</td>
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<td>Fax:</td>
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<tr>
<td></td>
<td>Email:</td>
</tr>
<tr>
<td></td>
<td>Website:</td>
</tr>
</tbody>
</table>

2. EXECUTIVE SUMMARY

The executive summary provides a brief synopsis of the commercial and technical solution the Tenderer proposed for the project/service. This summary must be non-confidential. It should fit on a single page.

The executive summary should be constructed to reflect the merits of the proposal and its feasibility. It should also clearly specify the project/service’s goals and resource requirements. It should include:

(a) Rationale for pursuing the project or service, the methodology/technology needed and the present state of the relevant methodology/technology.
(b) Brief description of the Tenderer’s financial situation.
(c) Brief description of the Tenderer’s facilities and experience on similar projects or services

3. CONFLICT OF INTEREST DECLARATION

Declare any conflict of interest in relation to the project and the ‘.hk’ ccTLD registry HKIRC.

4. COMPANY BACKGROUND

The Tenderer must describe its company background. Major activities, financial situation, organizational structure, management team and achievements in similar projects/services or service outsourcing of the company should be elaborated. Track records are preferred.

List the key technical and management personnel in the proposal. Provide a summary of the qualifications and role of each key member.

5. METHODOLOGY

The Tenderer must describe the methods to be used, and briefly explains its advantage and disadvantage. Track records are preferred.

6. PROJECT MANAGEMENT METHODOLOGY

The Tenderer must describe the methods to be used, and briefly explains its advantage and disadvantage. Track records are preferred.

7. UNDERSTANDING OF OUR REQUIREMENTS

The Tenderer shall describe their understanding of our requirements. With the use of a table, the Tenderer should clearly state their compliance on the requirements listed in the scope of service section; and briefly explain how they are achieved.

8. KNOWLEDGE AND ADVICES ON PROJECTS/SERVICES

The Tenderer should describe their knowledge and advices to ensure the success of this project/service or projects/services with similar nature.

9. DELIVERABLE AND SERVICES LEVEL

The Tenderer should detail the project/service deliverables, and the services level of the proposed services. Tables of content of all reports included in the deliverables should be provided in the proposal.

10. PROPOSED COSTS OF SERVICE AND PAYMENT SCHEDULE
The Tenderer should provide the breakdown of the cost of the whole project/service. The cost shall be broken down by milestone/phases. The payment shall be scheduled based on the milestones and/or deliverables.

Such costs should include, if applicable:

(a) Fixed setup cost
(b) Labour unit costs for additional services or requirements. They are typically quoted in unit man day. Quoted in normal working hour, non-working hour and in emergency.
(c) Equipment that is permanently placed or purchased for HKIRC to complete the project or service, if any.
(d) Subsequent support, maintenance or consultation service.
(e) Other direct costs including services, materials, supplies, postage, traveling, pocket money, etc.

11. IMPLEMENTATION TIMETABLE

The Tenderer should present in this section the implementation schedule of the project/service. The schedule should be realistic and achievable by the Tenderer.

12. COMMERCIAL AND PAYMENT TERMS

The Tenderer should describe the commercial and payment terms of the services e.g. compensation for the delay of the project/service.