



**THE GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF  
SRI LANKA**

**Ministry of Telecommunication and Digital Infrastructure**

**ADDENDUM NO 02 - TO THE BIDDING DOCUMENT**

**Volume 01, 02 and 03**

**Single Stage Two Envelopes Bidding Procedure**

**FOR THE**

**PROCUREMENT OF DESIGNING, DEVELOPING, SUPPLYING, DELIVERING, INSTALLATION AND  
IMPLEMENTING THE SOFTWARE, HARDWARE AND INFRASTRUCTURE FOR GENERATING DIGITAL  
IDENTITY FOR CITIZENS OF SRI LANKA AND FOR THE HOUSEHOLD TRANSFER MANAGEMENT  
(HTM) SYSTEM**

**INVITATION FOR BIDS No: MTDI /GOSL/IS/ICB/2016/15**

**12<sup>th</sup> July 2016**

## **ADDENDUM NO 02 - TO THE BIDDING DOCUMENT VOLUME 01, 02 and 03**

PROCUREMENT OF DESIGNING, DEVELOPING, SUPPLYING, DELIVERING, INSTALLATION AND IMPLEMENTING THE SOFTWARE, HARDWARE AND INFRASTRUCTURE FOR GENERATING DIGITAL IDENTITY FOR CITIZENS OF SRI LANKA AND FOR THE HOUSEHOLD TRANSFER MANAGEMENT (HTM) SYSTEM

### **INVITATION FOR BIDS No: MTDI /GOSL/IS/ICB/2016/15**

This Addendum No 02 to the Bidding Document of above procurement incorporates following amendments in Part 1 and Part 2 that have already been notified through clarifications issued to all bidders that have purchased the Bidding Document. All bidders shall comply with these amendments in addition to the clarifications issued.

### **PART 1**

Amendments related to the Volume 01 and 03 of the bidding document.

**1. BDS for ITB 24.1 of Volume 01**

Following words are added to BDS for ITB 24.1

Bidders are requested to submit Copies of Technical Bids and Financial bids (in CDs) along with the Bids. Softcopy of the financial bid should be submitted in the envelope containing the financial bids

**2. Item 3.1 Indicative Bill of Material (BOM) of Volume 01**

Bill of Material (BoM) is given in Volume 2. Therefore the words "Section VI -Annex V" stated in Volume 01 under 3.1 Indicative Bill of Material (BoM) are deleted.

**3. BDS for ITB 29.1 of Volume 01**

The words "Sri Lanka Time: 1400 hours" stated under BDS for ITB 29.1 are deleted.

**4. 2.1 Performance Security Form (Bank Guarantee) of volume 03**

Third paragraph of the Performance Security Form (Bank Guarantee), that is;

"On the date of your issuing, to the Contractor, the Operational Acceptance Certificate for the IT Products and/or Services, the value of this guarantee will be reduced to any sum(s) not exceeding [*amount(s)2 in figures and words*]. This remaining guarantee shall expire no later than [*number and select: of months/of years (of the Warranty Period that needs to be covered by the remaining guarantee)*] from the date of the Operational Acceptance Certificate for the

IT Products and/or Services,<sup>3</sup> and any demand for payment under it must be received by us at this office on or before that date”

shall be replaced with the following words.

“This guarantee shall expire no later than *[number and select: of months/of years (of the Warranty Period that needs to be covered by the remaining guarantee)]* from the date of the Operational Acceptance Certificate for the IT Products and/or Services,<sup>3</sup> and any demand for payment under it must be received by us at this office on or before that date”.

5. Section III – Evaluation and Qualification criteria of Volume 01 -Specific Experience

The following words sated in "Requirement Column" under 3.2.4.2 - Specific Experience

"Specific experience: During the last five (05) years bidder must have successfully completed at least one (01) Contract of similar nature, with a value of LKR 5,000 Million or equivalent. The similarity shall be based on the physical size, complexity, methods/technology and other characteristics as described in the Bidding Document. The Bidder shall have completed national scale, biometric based, digital identity issuance solution involving personalization of smart cards" are replaced the following words.

Quote:

"Specific experience: During the last five (05) years bidder must have successfully completed at least one (01) Contract of similar nature, with a value of LKR 5,000 Million or equivalent. The similarity shall be based on the physical size, complexity as described in the Bidding Document. The Bidder shall have completed at least one national scale digital identity issuance involving personalization of smart cards"

Unquote:

6. Section III – Evaluation and Qualification criteria of Volume 01 - Specific Experience (3.2.4.2) is amended as follows

Lead Bidder must meet requirement for item (1) of specific experience requirement. Partners combined must meet specific experience for all sub items (i), (ii) and (iii) requirements specified in item (2).

The words “Lead Bidder must meet requirements for one or more characteristics” of the column 3 of Table labeled under “**3.2.4.2 Specific Experience**” are replaced with the words “Lead Bidder must meet requirements for item (1) of specific experience and all other Partners combined must meet specific experience for all sub items (i), (ii) and (iii) requirements specified in item (2).

7. Section IV - Bidding Forms 3.2 – Bidder’s response to Technical Responsive Checklist and the Schedule of Requirements of Volume 01

Item No. 4 - "The Scope of Services" is the requirements for which bidders’ compliance should be stated. The words "The Scope of Services" of Item No. 4 of Volume 02 are amended to read as “"The Scope of Services and Technical Responsive Checklist”.

**8. Appendix 7: Terms and Procedures for Payment of volume 03**

The words “Release of the retention shall be after 6 months from the Operational Acceptance subject to receipt of unconditional bank guarantee for the same” stated under payment column in row “g” are replaced with the following words.

“Release of retention of 05% of the total contract price shall be after period of one year from the date of OAT. Retention may be released upon receipt of Advance Payment Bank Guarantee in the format given in the Bidding Document for same amount after completion of six (06) months period from OAT”.

**9. 2.2 Advance Payment Security Form (Bank Guarantee) of volume 03**

- i. The words “For each payment after the advance payment, which you will make tithe Contractor under this Contract, the maximum amount of this guarantee shall be reduced by the ninth part of such payment.<sup>4</sup> At the time at which the amount guaranteed becomes nil, this guarantee shall become null and void, whether the original is returned to us or not” are replaced with the following words.

“Advance Payment Bank Guarantee shall be valid for a period of six (06) months from the date of acceptance of same by the Employer”.

- ii. The word “byte” in the third paragraph of Advance Payment Security Form (Bank Guarantee) is replaced with the words “by the”.

**10. Section III – Evaluation and Qualification criteria of Volume 01**

The words “Table 3.1” in paragraphs (ii) under 3.1.3 are amended read as “Table 3.2”

The words “Form 2.9” in 3.2.2.2 - Pending Litigation are amended read as “Form 2.8”

## PART 2

Amendments related to the Volume 02 of the bidding document.

Page No	Reference Clause No	Excising Clause	Amended Clauses
9	Figure 1	Figure 1: “National Digital Identity and Transaction Framework”	Figure 1: “National Digital Identity and Transaction Framework” image is attached seperately with Addendum 02.
12	3.4.1.7	National middleware infrastructure facilitating cross-government secure data communication.	<p>National middleware infrastructure facilitating cross-government secure data communication. (As an important component of the e-Sri Lanka initiative, it was envisioned that practically all the eServices in Sri Lanka would be delivered via a comprehensive integration platform. This infrastructure, which is envisioned to be the gateway for electronic information and electronic interactions in Sri Lanka, is referred to as the ‘Lanka Gate’ initiative.</p> <p>The Lanka Gate infrastructure is built on leveraging the Service Oriented Architecture (SOA) architectural concepts and has the ability to plug any kind of eService with open standards in mind. Thus it would collectively provide an enabling infrastructure for rapid integration and delivery of eServices, leveraging loosely-coupled architectural principles to encourage the creation of innovative solutions, business models, communication models, pricing models and service mash-ups by various stakeholders across the country).</p>
14	3.5.7	<p>Bullet (1) of Item 3.5.7, Coloum “Implmentation Approach” in Table 1:</p> <ul style="list-style-type: none"> <li>▪ Biometrics (i.e. Iris, finger print, and face) collected from beneficiaries will be used for uniquely identifying the citizens before generating Public and a Private keys which will be issued to each citizen.</li> </ul>	<p>Bullet (1) of Item 3.5.7, Coloum “Implmentation Approach” in Table 1:</p> <ul style="list-style-type: none"> <li>▪ Biometrics (i.e. Iris, finger print, and face) collected from beneficiaries will be used for uniquely identifying the citizens before generating Public and Private keys, which will be issued to each citizen. Automatic Biometric Identification System</li> </ul>

Page No	Reference Clause No	Excising Clause	Amended Clauses
			(ABIS) shall be facilitated and used at the enrolment stage.
18	4.1.12	Further to above, the bidder should carry out integrations such as connectively to LGN network .	Further to above, the bidder should carry out integrations such as connectively to Lanka Government Network (LGN). Connectivity will be facilitated, and the cabling is bidder’s responsibility. Employer will provide separately caged spaces in a data center. All integrations, cables within the cage should be bidder’s responsibility.
18	4.1.19	<p>4.1.19 The total project duration is as specified below;</p> <p>4.1.19.1 The total project duration is 5 years and 6 months from the contract effective date. This includes the following in accordance with the delivery schedule;</p> <p>4.1.19.2 Time duration up to the commencement of the UAT is 4 months.</p> <p>4.1.19.3 The UAT time period is 1 month</p> <p>4.1.19.4 Project operational time duration from the date of UAT acceptance is 5 years.</p> <p>4.1.19.5 However the bidder shall be able to commence the OAT acceptance within 12 months from the date of UAT acceptance.</p> <p>4.1.19.6 The OAT time period is 1 month</p> <p>4.1.19.7 Project operational time duration from the date of OAT acceptance is 4 years.</p> <p>4.1.19.8 The contract end date shall be in accordance with the time duration specified in above points (4.1.16.1), (4.1.16.4) and (4.1.16.7).</p> <p>4.1.19.9 Refer below Figure 2 for a graphical view of the project key milestones.</p>	<p>4.1.19 The total project duration is as specified below;</p> <p>4.1.19.1 The total project duration is 5 years and 8 months from the effective date of the contract. This includes the following in accordance with the delivery schedule:</p> <p>4.1.19.2 Time duration up to the commencement of the UAT is 6 months;</p> <p>4.1.19.3 The UAT time period is 1 month;</p> <p>4.1.19.4 Project operational time duration from the date of UAT acceptance is 5 years;</p> <p>4.1.19.5 However, the bidder shall be able to commence the OAT acceptance within 12 months from the date of UAT acceptance.</p> <p>4.1.19.6 The OAT time period is 1 month;</p> <p>4.1.19.7 Project operational time duration from the date of OAT acceptance is 4 years;</p> <p>4.1.19.8 The contract end date shall be in accordance with the time duration specified in above points (4.1.19.1), (4.1.19.4) and (4.1.19.7).</p> <p>4.1.19.9 Refer “10 Implementation schedule”</p>
19	4.1.20	During the UAT / OAT period there shall not be any issues of severity levels 1 or 2 reported / identified. If so it is considered as a failure.	<p>During the UAT / OAT period, there shall not be any issues of severity levels 1 or 2 reported / identified. In such circumstances, it would be considered as a failure. The severity levels are as follows:</p> <ul style="list-style-type: none"> <li>• Severity level 01: Total system inoperability</li> </ul>

Page No	Reference Clause No	Excising Clause	Amended Clauses
			<ul style="list-style-type: none"> <li>• Severity level 02: Partial system inoperability</li> </ul> <p>4.1.20.1 As indicated in 4.1.19.2, the time duration up to the commencement of the UAT is 6 months. Support / warranty in accordance with SLA shall commence from that day onwards.</p> <p>4.1.20.2 In addition to the UAT as indicated in 4.1.19.2, a formal UAT shall be carried out prior to accepting relevant other components such NDF centers.</p>
19	4.1.22	The bidder shall ensure 24x7 available helpdesk and issue reporting system. The helpdesk shall support three languages (English/ Sinhala and Tamil), and shall be efficient. The bidder shall provide an SLA for the operations of the helpdesk, which shall complement the overall project SLAs.	The bidder shall ensure 24x7 available helpdesk and issue reporting system. The helpdesk shall support three languages (English/ Sinhala and Tamil), and shall be efficient. The bidder shall provide an SLA for the operations of the helpdesk, which shall complement the overall project SLAs. At the end of the contract period, the bidder shall ensure that the support knowledge shall be transferred to a party specified by the employer.
20	4.1.28	The bidder shall be able to undertake maximum of 5-years post warranty support services. During this time period, the same warranty and SLAs for respective Items shall be applicable (What had been enforced / applicable during the 5-year services support period). The bidder shall provide pricing for the post warranty time period.	The bidder shall be able to undertake maximum of 5-years' post warranty support services for the application stack (NDI, CA, Enrolment, HTM. Etc.). During this time period, the same warranty and SLAs for respective software components shall be applicable (What had been enforced / applicable during the 5-year services support period). The bidder shall provide pricing for the post-warranty time period.
22	4.1.33 (Item 7)	Column "Item Description: Supply, delivery, installation and commissioning of the Certification Authority and establishment of Signature Signing and Authenticating Services	Column "Item Description: Supply, delivery, installation and commissioning of the Certification Authority and establishment of Signature Signing and Authenticating Services. Certificate Service Provider (Certification Authority) to be hosted in the same building as NDI Hosting Infrastructure in a separate cage.

Page No	Reference Clause No	Excising Clause	Amended Clauses
23	4.2	[Item 1] – Enrolment Stations	<p><u>The Clause 4.2 is amended by the inclusion of the following new clauses:</u></p> <p>4.2.14 Bidders are to propose a suitable printer to print PIN number for the smart card.</p> <p>4.2.15 The PIN generation and printing should comply the ISO 9564 standards;</p> <p>4.2.16 The PIN number should be printed in a secure envelope, designed so that it can be printed without the PIN being visible (even at printing time) until the envelope is opened.</p> <p>4.2.17 The cost of this envelope will be incurred by the employer.</p>
23	4.2.1.2	Finger prints (10)	Flat fingerprints (10 fingers in 4+4+2)
23	4.2.4	The employer will setup a verification center in order to verify data / information, scanned document collected from enrolment centers, prior releasing the information for personalization.	The employer will setup a verification center in order to verify data / information, scanned document collected from enrolment centers, prior releasing the information for personalization. Application interfaces (APIs) shall be taken up during the requirement study.
24	4.3.5	The portable units will be utilizing to speed up the enrolment process and to reach citizens who are not able to visit the NDF centers.	<p>The portable units will be utilizing to speed up the enrolment process and to reach citizens who are not able to visit the NDF centers.</p> <p>The portable unit shall work online with the central system.</p> <p>Notebooks may be installed with a VPN client to connect the NDI infrastructure.</p>
25	4.4.4	The NDI solution including the enrolment software shall facilitate the collection of number of data/ information from citizens such as their name, address, gender, etc. This is yet to be finalized by the NSC.	The NDI solution, including the enrolment software shall facilitate the collection of number of data/ information from citizens such as their name, address, gender, etc. This is yet to be finalized by the National Steering Committee (NSC). Any changes to data should be managed by the post-issuance system, which should be facilitated by the enrolment points.
26	4.4.21	The bidder shall provide appropriate tools for administering,	The bidder shall provide appropriate tools for administering,



Page No	Reference Clause No	Excising Clause	Amended Clauses
		monitoring and troubleshooting various software provided by them	monitoring and troubleshooting various software provided by them. Software should be centrally manageable.
26	4.4.24	The NDI solution shall have a bill generation solution for each enrolment/ citizen registration.	The NDI solution shall have a bill generation solution for each enrolment/ citizen registration. There is a requirement for cash management.
26	4.4.25	The NDI solution shall have adequate functions for the operator to generate a check-out report and other related MIS reports to be generated via the centralized reporting module	The NDI solution shall have adequate functions for the operator to generate a check-out report and other related MIS reports to be generated via the centralized reporting module. Solution should be capable of producing any dynamic reports as and when requested by the employer
27	4.4.26 (Figure 3)	Figure 3: “ High-level view of the NDI and NDT platform and the HTM system”	Figure 3: “ High-level view of the NDI and NDT platform and the HTM system” - The image is attached seperately with Addendum 02.
30	4.4.27.3.3	SSO API - it is required to provide API to be used for single sign on purpose.	SSO API - it is required to provide API to be used for single sign-on purpose. Single sign-on should be established, such a way to authenticate multiple government and public applications. Ability to scale-out and be able to be integrated with multiple identity platforms. Should be able to be implemented in a cloud environment.
32	4.4.28 (Figure 5)	Figure 5: “ Major components (Hardware layer) of NDI”	Figure 5: Major components (Hardware layer) of NDI” image is attached seperately with Addendum 02.
32	4.4.28.2.1 .1.3	Minimum 1,000 authentications per second with response time less than 1 second based on Finger prints	Minimum 1,000 authentications per second with response time less than 1 second based on Finger prints. For one-to-one (1:1) authentications/ verifications and minimum 25 identifications per second for one-to-many (1:N)
33	4.4.28.2.1 .1.4	Minimum 1,000 authentications per second with response time less than 1 second based on IRIS recognition	Minimum 1,000 authentications per second with response time less than 1 second based on IRIS recognition. For one-to-one (1:1) authentications/ verifications and minimum 25 identifications per

Page No	Reference Clause No	Excising Clause	Amended Clauses
			second for one-to-many (1:N)
33	4.4.28.2.1 .1.5	Minimum 1,000 authentications per second with response time less than 1 second based on Face recognition	Minimum 1,000 authentications per second with response time less than 1 second based on Face recognition. For one-to-one(1:1) authentications/ verifications and minimum 25 identifications per second for one-to-many (1:N)
33	4.4.28.2.5 .1.1	Username / password combination and any biometric information shall be used to validate the user before logged in to the system	The Username / password combination and any biometric information shall be used to validate the user before logged in to the system. This shall be available to enrolment staff and enrolled users (citizens)
33	4.4.28.2.5 .2.1	Sensitive data shall be encrypted stored. Appropriate and strong encryption algorithms shall be used.	Sensitive data shall be stored with encryption. Appropriate and strong encryption algorithms shall be used. Integrity and the security are the most important factors for the whole system and it'll be positively considered in every segment of the overall solution and bidders are expected to specify in detail on the security and the integrity of the solution's each segment.
33	4.4.28.2.3	Availability: System would be designed in a way to support high availability through clustering capabilities and maximum downtime < 1 hour	Availability: The System would be designed in a way to support high availability through clustering capabilities and maximum downtime < 1 minute"
33	4.4.28.2.4	Recoverability: System shall be designed in a way to recover at any failure scenario with maximum downtime < 3 hrs	Recoverability: System shall be designed in a way to recover at any failure scenario with maximum downtime < 15 minutes
35	4.5.8	The bidder shall undertake any costs associated with the training programs. This may include among others, training material, related devices, training center costs (if outside DSs), food, accommodation and travelling cost.	The bidder shall undertake any costs associated with the training programs. This may include among others, training material, related devices, training center costs (if outside DSs), food, accommodation and travelling cost. This is applicable to all enrolment staff being trained (trainees).

Page No	Reference Clause No	Excising Clause	Amended Clauses
38	4.6.16	DTC (Phase 2) should be designed, reviewed and ready for the final approval from the employer within 5 months of the effective date.	DTC (Phase 2) should be designed, reviewed and ready for the final approval from the employer in accordance with the implementation schedule.
38	4.6.20	(If required) site visits to the DTC manufacturing plant shall be facilitated by the bidder during the approval process and periodic / ad-hoc audits deemed necessary by the employer. Bidder shall bear all associated costs. This is a determination needs to be made by the employers review committee.	Site visits, if required, to the DTC manufacturing plant shall be facilitated by the bidder during the approval process and periodic / ad-hoc audits deemed necessary by the employer. This is applicable for project implmentation and operational phases of the project. Bidder shall bear all associated costs. This is a determination needs to be made by the employers review committee. Maximum 3 people at each site visit and maximum duration 3 days.
39	4.6.22 (Figure 6)	Figure 6: “Card Personalization process”	Figure 6: “Card Personalization process” image is attached seperately with Addendum 02.
39	4.6.23	During the enrollment process, as a part of the verification procedure, a selected set of information captured above will be verified for accuracy and respective translations are entered real-time by the translation unit located at NDI Verification Center.	During the enrollment process, as a part of the verification procedure, a selected set of information captured above will be verified for accuracy and respective translations are entered real-time by the translation unit located at NDI Verification Center. At the enrolment, entries should be translated to Sinhala and Tamil.
40	4.6.32.3	The system shall be based on web application model and java object oriented software conforms to J2EE	The system shall be based on web application model and java object oriented software conforms to JavaEE or equivalent technology.
43	4.6.33.1	The bidder shall already have strong prior experience of minimum 2 post issuance solution deployment with more than 2000 post issuance points.	In the proposal, the Bidder shall demonstrate the capability to implement a large number of post-issuance points.
43	4.6.33.6.5	OWASP top 10	OWASP top 10 (Should consider the latest versions)
44	4.7	[Item 6] NDI Hosting Infrastructure	Clause 4.7 is amended to add the following new clauses:  4.7.8 The datacenter shall be located within colombo district

Page No	Reference Clause No	Excising Clause	Amended Clauses
			4.7.9 The bidder shall provide 24x7 Help Desk support. At the end of the contract period, the bidder shall ensure that the support knowledge shall be transferred to a party specified by the employer. 4.7.10 Modes by which the end users can contact the service desk includes calls, emails and chat.
44	4.7.2	There will be two sites; - Live data center facility - Live data center facility II	There will be two sites; - Live data center facility - Live data center facility II Both sites should be live and run in Active-Active mode. Bidders may propose advanced distributed storage systems alternatively to the SAN bi-directional replication. Each site should be capable to support FULL capacity in the case of site failure.
45	4.7.6	Proposed structure for the production site	<u>Clause 4.7.6 is amended to add the following new clauses</u> 4.7.6 Bidder should specify the bandwidth and latency requirements to run the solution in Active-Active mode. Employer will be provided connectivity.
47	4.8.6.1	NDI CA core shall CWA 14167-1 compliant, supports x.509 v3, EV (DV,OV) Certificates.	NDI CA core may compliant to AIPA/CICA, ETSI or equivalent standard and supports x.509 v3, EV (DV,OV) Certificates. (Refer 4.8.6.5.2)
48	4.8.6.2.2	Store CA keys in HSM	Store CA keys in HSM. It should be hardware HSM.
48	4.9.1	Introduction Introduction Household Transfer Management (HTM) system is a collection of software systems which functions together to facilitates the management of fund transfers /fund disbursements initiated by Treasury department of the Ministry of Finance to beneficiary or beneficiary group(s) under Social welfare and Safety-net programs, Pensions and other specified citizen groups.	Introduction Introduction Household Transfer Management (HTM) system is a collection of software systems which functions together to facilitates the management of fund transfers /fund disbursements initiated by Treasury Departments of the Ministry of Finance to beneficiary or beneficiary group (s) under Social welfare and Safety-net programs, which are managed by other government institutions.  Solutions should be able to scale-out and the applications should be hosted on virtual instances in a cloud environment. Operating System

Page No	Reference Clause No	Excising Clause	Amended Clauses															
			to be specified. Transaction flows should be automated according to the business rules created by administrators.															
49	4.9.2	The high-level conceptual view of the household transfer management (HTM) system integrating with key components such as the NDI authentication service, and the National Payment Platform (NPP) are indicated below;	The high-level conceptual view of the household transfer management (HTM) system integrating with key components such as the NDI authentication service, and the National Payment Platform (NPP) are indicated below. HTM needs to interface with government institutes as well.															
50	4.9.5 (Figure 11)	Figure 11: “ High level architecture of the HTM system implementation”	Figure 11: “High level architecture of the HTM system implementation” image is attached seperately with Addendum 02.															
53	5	Warranty and Service Level Agreement (SLA)	<u>Add the following clause as a general introduction about 5. Warranty and Service Level Agreement (SLA).</u> 5.0 The bidder shall provide 24x7 Help Desk support. At the end of the contract period, the bidder shall ensure that the support knowledge shall be transferred to a party specified by the employer. Helpdesk should be contactable with phone, emails and chat.															
54	5.1.4	The Warranty Support SLA is mentioned below	<u>Clause 5.1.4 is amended to add the following new clauses:</u> 5.1.4.1 RTO = 1 minute, RPO = 15 minutes															
54	5.1.4.2	Warranty Support SLA 2 <table border="1" data-bbox="331 1101 1129 1453"> <thead> <tr> <th>Severity Level</th> <th>Description</th> <th>Type of Issues / incident</th> </tr> </thead> <tbody> <tr> <td>Critical (24x7)</td> <td>Enrolment staff cannot function</td> <td>Any device issue/ fault at enrolment centers</td> </tr> <tr> <td>Major (8:00 a.m. to 5:00 p.m.)</td> <td>NDF center functions at degraded performance</td> <td>Any device issue/ fault at enrolment centers</td> </tr> </tbody> </table>	Severity Level	Description	Type of Issues / incident	Critical (24x7)	Enrolment staff cannot function	Any device issue/ fault at enrolment centers	Major (8:00 a.m. to 5:00 p.m.)	NDF center functions at degraded performance	Any device issue/ fault at enrolment centers	Warranty Support SLA 2 <table border="1" data-bbox="1199 1101 1982 1377"> <thead> <tr> <th>Severity Level</th> <th>Description</th> <th>Type of Issues / incident</th> </tr> </thead> <tbody> <tr> <td>Critical (24x7)</td> <td>Enrolment staff cannot function</td> <td>Any device issue/ fault at enrolment centers</td> </tr> </tbody> </table>	Severity Level	Description	Type of Issues / incident	Critical (24x7)	Enrolment staff cannot function	Any device issue/ fault at enrolment centers
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Page No	Reference Clause No	Excising Clause			Amended Clauses		
		High (8:00 a.m. to 5:00 p.m.)	NDF center functions at degraded performance	Portable biometric data collection device issue	Major (From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays))	NDF center functions at degraded performance	Any device issue/ fault at enrolment centers
					High (From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays))	NDF center functions at degraded performance	Portable biometric data collection device issue
57	5.2.4.2	Warranty Support SLA 2			Warranty Support SLA 2		
		Severity Level	Description	Type of Issues / incident	Severity Level	Description	Type of Issues / incident
		Critical (24x7)	Enrolment staff cannot function	Any component issue/ fault in portable unit	Critical (24x7)	Enrolment staff cannot function	Any component issue/ fault in portable unit
		Major (8:00 a.m. to 5:00 p.m.)	NDF center functions at degraded performance	Any component issue/ fault in portable unit	Major (From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays))	NDF center functions at degraded performance	Any component issue/ fault in portable unit
59	5.3.3	Service Level Monitoring			Clause 5.3.3 is amended to add the following new clauses 5.3.3.1 Comprehensive monitoring system should be provided by the bidder		
60	5.3.4	Support Levels  The bidder must provide support and maintenance services during Support Levels mentioned below			Support Levels  The bidder must provide support and maintenance services during Support Levels mentioned below		

Page No	Reference Clause No	Excising Clause	Amended Clauses																																	
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Page No	Reference Clause No	Excising Clause					Amended Clauses				
		<b>High</b>	6 Hours LKR 100,000.00 per hour	10 Hours LKR 100,000.00 per hour	10 Hours LKR 100,000.00 per hour	15 Hours LKR 100,000.00 per hour	<b>High</b>	6 Hours LKR 100,000.0 0 per hour	10 Hours LKR 100,000.00 per hour	10 Hours LKR 100,000.00 per hour	15 Hours LKR 100,000.00 per hour
							<b>Medium</b>	8 Hours LKR 50,000.00 per hour	15 Hours LKR 50,000.00 per hour	15 Hours LKR 50,000.00 per hour	20 Hours LKR 50,000.00 per hour
61	5.3.6	Problem Resolution and Penalties					Clause 5.3.6 is amended to add the following new clause: 5.3.6.1 Maximum penalty per year shall not exceed 1% of the total contract price				
62	5.4	[Item 5] – Digital Transactions Card (DTC) and Personalization					Clause 5.4 is amended to add the following new clause: 5.4.7. Maximum penalty per year shall not exceed 1% of the total contract price				
62	5.4.4	DTC Quality Check error rate is 0.5% for a batch of 10,000 DTCs. Any batch exceeding this rate is charged with a penalty of LKR 10,000.00 per DTC.					DTC Quality Check error rate is 3% for a batch of 1,000,000 DTCs. Any batch exceeding this rate is charged with a penalty of LKR 10,000.00 per DTC. All quality check error cards shall be replaced free of charge by the bidder. Data entry errors shall not be considered as damaged cards.				
62	5.4.6	Penalty charged for any delay delivering DTCs is LKR 100,000.00 per day.					Penalty charged for any delay delivering DTCs is LKR 100,000.00 per day. Maximum penalty per year shall not exceed 1% of the total contract price.				
65	5.5.4.2	Warranty Support SLA 2					Warranty Support SLA 2				
		Severity Level	Description	Type of Issues			Severity Level	Description	Type of Issues		
		Critical	Live site	Any kind of hardware/firmware			Critical	Live site	Any kind of hardware/firmware		



Page No	Reference Clause No	Excising Clause			Amended Clauses		
		(24x7)	cannot function	component issue that leads complete live site outage. (FW cluster failure, Switch cluster failure etc.) Any kind of system level (Operating system, hypervisor, management etc.) failure which leads complete live site outage.	(24x7)	cannot function	component issue that leads complete live site outage. (FW cluster failure, Switch cluster failure etc.) Any kind of system level (Operating system, hypervisor, management etc.) failure which leads complete live site outage.
		Major (8:00 a.m. to 5:00 p.m.)	Live Site functions at degraded performance level	Any kind of hardware/firmware component issue that leads to degrade the 50% or lower performance of the site (Server failure, FW failure, switch failure..etc) Any kind of system level (Operating system, hypervisor, management.. etc) failure which leads 50% or lower performance level.	Major (From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays))	Live Site functions at degraded performance level	Any kind of hardware/firmware component issue that leads to degrade the 50% or lower performance of the site (Server failure, FW failure, switch failure etc.) Any kind of system level (Operating system, hypervisor, management etc.) failure which leads 50% or lower performance level.
		High (8:00 a.m. to 5:00 p.m.)	Live Site functions at degraded performance	Any kind hardware, firmware, system application level failure which won't affect the performance, but need to be rectify and restore to the working state. (Power supply failure, KVM failure, Management and monitoring system failure, etc)	High (From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays))	Live Site functions at degraded performance	Any kind hardware, firmware, system application level failure which won't affect the performance, but need to rectify and restore to the working state. (Power supply failure, KVM failure, Management and monitoring system failure, etc)
65	5.5.5	Penalties			<u>Clause 5.5.5 is amended to add the following new clause</u> 5.5.5.4 Maximum penalty per year shall not exceed 1% of the total contract price.		

Page No	Reference Clause No	Excising Clause	Amended Clauses																												
67	5.6.4	<p>Support Levels</p> <p>The bidder must provide support and maintenance services during Support Levels mentioned below</p> <table border="1"> <tr> <td colspan="2">Support Level 2: Medium</td> </tr> <tr> <td>Component/Service</td> <td>NDI solution interfaces accessed via NDF centers.</td> </tr> <tr> <td>Support Hours</td> <td>From 08:30 AM to 05:30 PM Monday to Friday (Excluding public holidays)</td> </tr> </table>	Support Level 2: Medium		Component/Service	NDI solution interfaces accessed via NDF centers.	Support Hours	From 08:30 AM to 05:30 PM Monday to Friday (Excluding public holidays)	<p>Support Levels</p> <p>The bidder must provide support and maintenance services during Support Levels mentioned below</p> <table border="1"> <tr> <td colspan="2">Support Level 2: Medium</td> </tr> <tr> <td>Component/Service</td> <td>NDI solution interfaces accessed via NDF centers.</td> </tr> <tr> <td>Support Hours</td> <td>From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays)</td> </tr> </table>	Support Level 2: Medium		Component/Service	NDI solution interfaces accessed via NDF centers.	Support Hours	From 08:00 AM to 05:00 PM Monday to Sunday (excluding public holidays)																
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67-68	5.6.5 (Table 1)	<table border="1"> <thead> <tr> <th rowspan="2">Support Level</th> <th colspan="2">Business Critical</th> <th colspan="2">Non-Business Critical</th> </tr> <tr> <th>Fatal</th> <th>Impaired</th> <th>Fatal</th> <th>Impaired</th> </tr> </thead> <tbody> <tr> <td><b>High</b></td> <td>60 minutes within Support Hours</td> <td>90 minutes within Support Hours</td> <td>90 minutes within Support Hours</td> <td>120 minutes within Support Hours</td> </tr> </tbody> </table>	Support Level	Business Critical		Non-Business Critical		Fatal	Impaired	Fatal	Impaired	<b>High</b>	60 minutes within Support Hours	90 minutes within Support Hours	90 minutes within Support Hours	120 minutes within Support Hours	<table border="1"> <thead> <tr> <th rowspan="2">Support Level</th> <th colspan="2">Business Critical</th> <th colspan="2">Non-Business Critical</th> </tr> <tr> <th>Fatal</th> <th>Impaired</th> <th>Fatal</th> <th>Impaired</th> </tr> </thead> <tbody> <tr> <td><b>Medium</b></td> <td>120 minutes within Support Hours</td> <td>180 minutes within Support Hours</td> <td>180 minutes within Support Hours</td> <td>240 minutes within Support Hours</td> </tr> </tbody> </table>	Support Level	Business Critical		Non-Business Critical		Fatal	Impaired	Fatal	Impaired	<b>Medium</b>	120 minutes within Support Hours	180 minutes within Support Hours	180 minutes within Support Hours	240 minutes within Support Hours
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68	5.6.6	Problem Resolution and Penalties	<p><u>Clause 5.6.6 is amended to add the following new clause</u></p> <p>5.6.6.1 Maximum penalty per year shall not exceed 1% of the total contract price.</p>																												
70		<p>Bill of Material (BOM)</p> <table border="1"> <thead> <tr> <th>Item</th> <th>PROCUREING ITEMS</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Enrolment stations</td> <td></td> </tr> </tbody> </table>	Item	PROCUREING ITEMS	Quantity	1	Enrolment stations		<p>Amended Bill of Material (BOM)</p> <table border="1"> <thead> <tr> <th>Item</th> <th>PROCUREING ITEMS</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Enrolment stations</td> <td></td> </tr> </tbody> </table>	Item	PROCUREING ITEMS	Quantity	1	Enrolment stations																	
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Page No	Reference Clause No	Excising Clause		Amended Clauses			
			Notebook	1,783	1.1	Notebook	1,783
			Latch cables	1,783	1.2	Latch cables	1,783
			Scanner	1,783	1.3	Scanner	1,783
			POS Printer	1,783	1.4	POS Printer	1,783
			USB Hub	1,783	1.5	USB Hub	1,783
			Camera	1,783	1.6	Camera	1,783
			Fingerprint (10) Scanner	1,783	1.7	Fingerprint (10) Scanner	1,783
			Iris Scanner	1,783	1.8	Iris Scanner	1,783
			USB 1 finger scanner (Enrolment staff)	1,783	1.9	USB Contactless Card Reader (Enrolment staff)	1,783
			PIN Printer	1,783	1.10	PIN Printer	1,783
			Enrolment staff Table (*)	790	1.11	Enrolment staff Table (*)	790
			Enrolment staff Chair (*)	790	1.12	Enrolment staff Chair (*)	790
			Citizen Chair (*)	790	1.13	Citizen Chair (*)	790
			Extension cable (6 plugs)	1,783	1.14	Extension cable (6 plugs)	1,783
			Power Cabling (13A)	1,783	1.15	Power Cabling (13A)	1,783
	2		<b>Portable Unit</b>	331	1.16	Monitor	1,783
	3		<b>Centralized NDI solution</b>	Item	1.17	USB Contactless Card Reader (Enrolment staff)	331
	4		<b>Training of Enrolment Staff</b>	1,900	1.18	Photo Background of Light colour board with height of 6ft and RAL colour for Gray	1,783
	5		<b>Digital Transaction Cards (DTC) Personalization and Issuance</b>		2	<b>Portable Unit</b>	331
			DTC Cards (Phase 1)	5,000	3	<b>Centralized NDI solution</b>	Item
			DTC Cards (Phase 2)	14,000,000	4	<b>Training of Enrolment Staff</b>	1,900
			DTC Personalization units	35	5	<b>Digital Transaction Cards (DTC) Personalization and Issuance</b>	
			Notebook (Personalization unit)	35	5.1	DTC Cards (Phase 1)	5,000
			Notebook (QC unit)	35	5.2	DTC Cards (Phase 2)	14,000,000
			Notebook (Dispatch unit)	35	5.3	DTC Personalization units	35
			Monitors	35	5.4	Notebook (Personalization unit)	35
			Finger Print Reader	506	5.5	Notebook (QC unit)	70
			USB Card Reader	506			
	6		<b>Certificate Authority and Signature Signing and Authenticating Services</b>	Item			

Page No	Reference Clause No	Excising Clause				Amended Clauses			
			<b>Solution (High available)</b>			5.6	Notebook (Dispatch unit)		70
		7	<b>NDI Systems Infrastructure (HA, Active-Active)</b>	Item		5.7	Monitors (Dispatch unit)		70
		8	<b>Household Transfer Management (HTM) system</b>	Item		5.8	Finger Print Reader (QC unit and Dispatch unit)		140
						5.9	USB Contact Card Reader (QC unit)		70
						5.10	USB Contactless Card Reader (QC unit and Dispatch unit)		140
						6	<b>Certificate Authority and Signature Signing and Authenticating Services Solution (High available)</b>		Item
						7	<b>NDI Systems Infrastructure (HA, Active-Active)</b>		Item
						8	<b>Household Transfer Management (HTM) system</b>		Item
71	6.1.2.1	Production Data Center (Per Site)				Clause 6.1.2.1 is amended to add the following new clauses 6.1.2.1.1 Production data centers will be located within Colombo District.			
72	7.1.1	7.1.1 Notebook – Item “ Card Reader”				7.1.1 Notebook – Item “ Card Reader”			
		<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>				<b>Reference (Section No and Page NOs)</b>	
				<b>Yes /No</b>	<b>If “No” Bidder’s response</b>				
		Card Reader	Integrated Media Card Reader						
73-74	7.1.2	7.1.2 Scanner (Legal) – Item “ Bit depth”, “ Scan resolution, optical” and “ Scan file format”				7.1.2 Scanner (Legal) – Item “ Bit depth”, “ Scan resolution, optical” and “Scan file format”			

Page No	Reference Clause No	Excising Clause				Amended Clauses				
		Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Item	Minimum Specification	Compliance	
Yes /No	If "No" Bidder's response			Yes /No	If "No" Bidder's response					
		Scan resolution , optical	Up to 1200 dpi							
		Bit depth	48-bit minimum							
		Scan file format	PDF (formatted Text and Graphics, normal with images, searchable image over text, MRC, PDF/A), TIFF (single page, multi-page, compressed), JPG, BMP, PNG, DOC, RTF, TXT, WPD, XLS, HTM, OPF, UNICODE, XML, XPS							
72	7.1	[Item 1] - Enrolment Stations				<u>Clause 7.1 is amended to add the following new clauses</u>  7.1.10 PIN Printer				

Page No	Reference Clause No	Excising Clause	Amended Clauses																			
			Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)															
					Yes /No	If "No" Bidder's response																
			1	PIN generation, printing should comply the ISO 9564																		
			2	PIN number should be printed in a secure envelope, designed so that it can be printed without the PIN being visible (even at printing time) until the envelope is opened.																		
			7.1.11 Monitors (Enrolment stations and dispatch units)																			
					Yes /No	If "No" Bidder's response	Reference (Section No and Page NOs)															
			1	Size: 18" or higher																		
			2	Type: LED backlit																		
			3	Resolution: Wide 1366x768																		
			4	Interfaces: HDMI/VGA input																		
76	7.1.5	7.1.5 Dual Iris Scanner – Item "Interface"	7.1.5 Dual Iris Scanner – Item "Interface"																			
		<table border="1"> <thead> <tr> <th>Item</th> <th>Minimum Specification</th> <th>Compliance</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Item	Minimum Specification	Compliance	Reference					<table border="1"> <thead> <tr> <th>Item</th> <th>Minimum Specification</th> <th>Compliance</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Item	Minimum Specification	Compliance	Reference				
Item	Minimum Specification	Compliance	Reference																			
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Page No	Reference Clause No	Excising Clause					Amended Clauses				
				Yes /No	If “No” Bidder’s response	(Section No and Page NOs)			Yes /No	If “No” Bidder’s response	(Section No and Page NOs)
		Interface	Standard USB 2.0				Interface	USB 2.0 or higher			
76	7.1.6	7.1.6 Camera – Item “Interface”					7.1.6 Camera – Item “Interface”				
		<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>	<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>
				Yes /No	If “No” Bidder’s response				Yes /No	If “No” Bidder’s response	
		Interface	Standard USB 2.0				Interface	USB 2.0 or higher			
77	7.1.7	7.1.7 Finger Print Scanner (10 Fingers) – Item “Interface” and “ Scan Area”					7.1.7 Finger Print Scanner (10 Fingers) – Item “Interface” and “ Scan Area”				
		<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>	<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>
				Yes /No	If “No” Bidder’s response				Yes /No	If “No” Bidder’s response	
		Interface	Standard USB 2.0				Interface	USB 2.0 or higher			
		Scan Area	132 x 130 mm				Scan Area	< This requirement is removed >			
79	7.2	7.2 [Item 2] - Portable Unit – Item “ Fingerprint Scanner”					7.2 [Item 2] - Portable Unit – Item “ Fingerprint Scanner”				

Page No	Reference Clause No	Excising Clause				Amended Clauses					
		Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)
Yes /No	If "No" Bidder's response			Yes /No	If "No" Bidder's response						
		Fingerprint Scanner	FBI Appendix F approved live scan device Supports collection of slaps and rolls 500ppi fingerprint images ANSI/NIST-ITL 1-2007ISO/IEC FCD 19794-4ANSI/NIST-ITL 1-2000ANSI/NIST-ITL 1-2000 Interpol Implementation				Fingerprint Scanner	FBI Appendix F approved live scan device Supports collection of slaps and rolls 500ppi fingerprint images ANSI/NIST-ITL 1-2007ISO/IEC FCD 19794-4ANSI/NIST-ITL 1-2000ANSI/NIST-ITL 1-2000 Interpol Implementation. Should support 10-finger scanning (4+4+2).			
80	7.3.1	7.3.1, Item " Features of data collection"				7.3.1, Item " Features of data collection"					
		Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)
				Yes /No	If "No" Bidder's response				Yes /No	If "No" Bidder's response	
		Features of data collection	Shall have tenant logins with biometric for users. Users should be able to login to the system with SSO and customizable								



Page No	Reference Clause No	Excising Clause					Amended Clauses					
		Features of data collection	Shall have tenant logins with biometric for users.				methods (username + password + PIN). Each user is authenticated by his/her own biometrics to login to the system. The users should have an isolated area where the relevant information is stored and displayed					
			Shall capture on client end, verify against existing data on database to avoid duplication within 5 seconds				Shall capture on client end, verify against existing data on database to avoid duplication less than a second (ABIS should support up to 25 identifications per second). Deduplicatin should be checked with biometric matching					
81	7.3.2	7.3.2, Item “ <b>Speed of Matching</b> ”					7.3.2, Item “ <b>Speed of Matching</b> ”					
	<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>	<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Reference (Section No and Page NOs)</b>		
			<b>Yes /No</b>	<b>If “No” Bidder’s response</b>				<b>Yes /No</b>	<b>If “No” Bidder’s response</b>			
						<b>Speed of Matching</b>	Minimum 1,000 Authentications per second with response time less than 1 second based on Finger Prints (Any 4 Fingers). 1,000					

Page No	Reference Clause No	Excising Clause					Amended Clauses				
		<b>Speed of Matching</b>	Minimum 1,000 Authentications per second with response time less than 1 second based on Finger Prints (Any 4 Fingers)				Authentications per second for 1:1 matching and 25 Authentications per second for 1: N (one-to-many) identification.				
Minimum 1,000 Authentications per second with response time less than 1 second based on IRIS Recognition					Minimum 1,000 Authentications per second with response time less than 1 second based on IRIS Recognition. 1,000 Authentications per second for 1:1 matching and 25 Authentications per second for 1: N (one-to-many) identification.						
Minimum 1,000 Authentications per second with response time less than 1 second based on Face Recognition					Minimum 1,000 Authentications per second with response time less than 1 second based on Face Recognition. 1,000 Authentications per second for 1:1 matching and 25 Authentications per second for 1:N (one-to-many) identification						
86	7.5.2 (Item 6)	The personalization platform shall be able to deploy in deferent scheme: centralized, decentralized or both scheme.					Item 6 is removed.				

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86	7.5.3	<p>Smart Cards – (Phase 1 Digital Transaction Card (DTCs))</p> <table border="1" data-bbox="352 289 1146 841"> <thead> <tr> <th rowspan="2">Item</th> <th rowspan="2">Minimum Specification</th> <th colspan="2">Compliance</th> <th rowspan="2">Reference (Section No and Page NOs)</th> </tr> <tr> <th>Yes /No</th> <th>If “No” Bidder’s response</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Brand (Specify)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Country of Origin/ Manufacture</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Type: PVC Card</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>White color</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Compatible with personalization machine (item 2)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Graphic quality, glossy surface</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Yes /No	If “No” Bidder’s response	1	Brand (Specify)				2	Country of Origin/ Manufacture				3	Type: PVC Card				4	White color				5	Compatible with personalization machine (item 2)				6	Graphic quality, glossy surface				<p>Smart Cards – (Phase 1 Digital Transaction Card (DTCs))</p> <p>Existing Minimum Specifications shall be replaced with the following:</p> <p>Bidders should supply polycarbonate card with dual interface (Contact &amp; Contactless) and basic design.</p> <table border="1" data-bbox="1199 480 2009 940"> <thead> <tr> <th rowspan="2">Item</th> <th rowspan="2">Minimum Specification</th> <th colspan="2">Compliance</th> <th rowspan="2">Reference (Section No and Page NOs)</th> </tr> <tr> <th>Yes /No</th> <th>If “No” Bidder’s response</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dual interface polycarbonate card that complies to ISO/IEC 7810, ISO/IEC14443 , ISO/IEC 7816 standards.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>JavaCard OS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>32 KB User data</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Basic design</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Yes /No	If “No” Bidder’s response	1	Dual interface polycarbonate card that complies to ISO/IEC 7810, ISO/IEC14443 , ISO/IEC 7816 standards.				2	JavaCard OS				3	32 KB User data				4	Basic design			
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		9	The card body must include a specific true-colour UV image with high brilliance, resolution and high colour reproduction. The image shall become visible under a UV light source at 365nm								
		15	The card body must contain laser-engraved markings protecting against delamination, tampering and cutting attempts								
		18	The smart card manufacturer must submit their samples containing each of requested features along with tender answer by the bidder								
		19	Smart card for this project shall manufactured in a manufacturing site which has valid ISO 9001, ISO 14001 & ISO 27001, ISO 14298 or CWA 14641 certificates								
		9	The card body must include a specific 24-bit color UV image with high brilliance, resolution and high colour reproduction. The image shall become visible under a UV light source at 365nm. Bidders can propose a technology which is equivalent or exceeds this feature.								
		15	The card body must contain laser-engraved markings protecting against delamination, tampering and cutting attempts or equivalent.								
		18	The smart card manufacturer must submit their samples containing each of requested features along with tender answer by the bidder. Bidders must submit minimum of 5 sample cards and different features can be submitted with multiple cards.								
		19	Smart card for this project shall be manufactured in a manufacturing site which has valid ISO 9001, ISO 14001 & ISO 27001, ISO 14298/ PCI-CP or CWA 14641 certificates. At								

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89	7.5.4.2	<p>7.5.4.2 Chip and operating system specification - Item 1,2 and 9</p> <table border="1"> <thead> <tr> <th data-bbox="327 380 405 540" rowspan="2">Item</th> <th data-bbox="405 380 764 540" rowspan="2">Minimum Specification</th> <th colspan="2" data-bbox="764 380 989 418">Compliance</th> <th data-bbox="989 380 1119 540" rowspan="2">Reference (Section No and Page NOs)</th> </tr> <tr> <th data-bbox="764 418 856 540">Yes /No</th> <th data-bbox="856 418 989 540">If “No” Bidder’s response</th> </tr> </thead> <tbody> <tr> <td data-bbox="327 540 405 889">1</td> <td data-bbox="405 540 764 889">The smart card manufacturer must master the full smart card value chain. The smart card manufacturer must have in house smart card operating system development and cryptographic library development</td> <td data-bbox="764 540 856 889"></td> <td data-bbox="856 540 989 889"></td> <td data-bbox="989 540 1119 889"></td> </tr> <tr> <td data-bbox="327 889 405 1084">2</td> <td data-bbox="405 889 764 1084">Smart card shall be microprocessor based IC card with contactless interface complaint to ISO /IEC 14443-3 standard</td> <td data-bbox="764 889 856 1084"></td> <td data-bbox="856 889 989 1084"></td> <td data-bbox="989 889 1119 1084"></td> </tr> </tbody> </table>	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Yes /No	If “No” Bidder’s response	1	The smart card manufacturer must master the full smart card value chain. The smart card manufacturer must have in house smart card operating system development and cryptographic library development				2	Smart card shall be microprocessor based IC card with contactless interface complaint to ISO /IEC 14443-3 standard				<p>7.5.4.2 Chip and operating system specification - Item 1,2 and 9</p> <table border="1"> <thead> <tr> <th data-bbox="1190 380 1268 540" rowspan="2">Item</th> <th data-bbox="1268 380 1682 540" rowspan="2">Minimum Specification</th> <th colspan="2" data-bbox="1682 380 1894 418">Compliance</th> <th data-bbox="1894 380 2024 540" rowspan="2">Reference (Section No and Page NOs)</th> </tr> <tr> <th data-bbox="1682 418 1759 540">Yes /No</th> <th data-bbox="1759 418 1894 540">If “No” Bidder’s response</th> </tr> </thead> <tbody> <tr> <td data-bbox="1190 540 1268 1084">1</td> <td data-bbox="1268 540 1682 1084">The smart card manufacturer must master the full smart card value chain. The smart card manufacturer must have (Preferably in house developed) smart card operating system and cryptographic library. If the OS is not developed by the same bidder in house, then, the bidder shall provide adequate documentation with regard to the security aspects of the CardOS integration with their Smartcards.</td> <td data-bbox="1682 540 1759 1084"></td> <td data-bbox="1759 540 1894 1084"></td> <td data-bbox="1894 540 2024 1084"></td> </tr> <tr> <td data-bbox="1190 1084 1268 1279">2</td> <td data-bbox="1268 1084 1682 1279">Smart card shall be microprocessor based IC card with dual interface complaint to ISO/IEC 7810, ISO/IEC14443 , ISO/IEC 7816</td> <td data-bbox="1682 1084 1759 1279"></td> <td data-bbox="1759 1084 1894 1279"></td> <td data-bbox="1894 1084 2024 1279"></td> </tr> </tbody> </table>	Item	Minimum Specification	Compliance		Reference (Section No and Page NOs)	Yes /No	If “No” Bidder’s response	1	The smart card manufacturer must master the full smart card value chain. The smart card manufacturer must have (Preferably in house developed) smart card operating system and cryptographic library. If the OS is not developed by the same bidder in house, then, the bidder shall provide adequate documentation with regard to the security aspects of the CardOS integration with their Smartcards.				2	Smart card shall be microprocessor based IC card with dual interface complaint to ISO/IEC 7810, ISO/IEC14443 , ISO/IEC 7816			
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Yes /No	If "No" Bidder's response			Yes /No	If "No" Bidder's response						
		4	The personalization software shall be ready for connection with any Global Platform, Java card / MULTOS smart card management system								
		13	The production management system shall interface with a relational database to store information								
		16	The production management system shall integrate the white list coming from the card manufacturer								
						4	The personalization software shall be ready for connection with Global Platform, JavaCard smart card management system				
						13	The production management system shall interface with a RDBMS /NoSQL database to store information				
						16	The production management system shall integrate the white list coming from the card manufacturer. White list may be either card serial number or crypto key whitelists from the manufacturer which allowed to personalize the card				
96	7.6.1	<b>[Item 6] - NDI hosting infrastructure</b>				<b>[Item 6] - NDI hosting infrastructure</b>					
		<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Refer</b>	<b>Item</b>	<b>Minimum Specification</b>	<b>Compliance</b>		<b>Refer</b>
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		External / Internal	Identity based access and filtering (Layer 8)				External / Internal	External/Internal Firewalls: Identity based access and filtering (Layer 8 or equivalent)			

Page No	Reference Clause No	Excising Clause					Amended Clauses				
		Firewalls					Firewalls				
		SAN	<p>Dual Active-Active Storage Controllers and upgraded to the latest firmware level</p> <p>8 x 8 Gb FC Ports or higher on each controller.</p> <p>10/100Gbps FCoE/ iSCSI Host Ports or higher on each controller</p> <p>FC, FCoE, iSCSI Support within the same array</p> <p>Dual 6Gbps SAS Buses /FC-ALs</p> <p>Automatic disk rebuild and Automatic disk failover</p> <p>Minimum 16GB Cache on Each Storage Controller or higher.</p> <p>Cache Upgradability 48GB or higher</p> <p>Ability to use Flash/SSD to improve the cache.</p> <p>Supported RAID Levels 0/1/5/6</p> <p>Automatic storage tiering support.</p> <p>Minimum 100TB effective capacity (RAID6) with 8+2 RAID6 pools and 2TB SATA + 1TB(4+1 RAID5) SSD pool to improve IOPS + 2 x 2TB Spares.</p> <p>Support SAS, NL-SAS, Solid State/Flash Drives.</p>				SAN	<p>Dual Active-Active Storage Controllers and upgraded to the latest firmware level</p> <p>8 x 8 Gb FC Ports or higher on each controller.</p> <p>10/100Gbps FCoE/ iSCSI Host Ports or higher on each controller</p> <p>FC, FCoE, iSCSI Support within the same array</p> <p>Dual 6Gbps SAS Buses /FC-ALs</p> <p>Automatic disk rebuild and Automatic disk failover</p> <p>Minimum 16GB Cache on Each Storage Controller or higher.</p> <p>Cache Upgradability 48GB or higher</p> <p>Ability to use Flash/SSD to improve the cache.</p> <p>Supported RAID Levels 0/1/5/6</p> <p>Automatic storage tiering support.</p> <p>Minimum 100TB effective capacity (RAID6) with 8+2 RAID6 pools and 2TB SATA + 1TB(4+1 RAID5) SSD pool to improve IOPS + 2 x 2TB Spares.</p> <p>Support SAS, NL-SAS, Solid State/Flash Drives.</p> <p>Up to 1024 Maximum hosts supported</p> <p>Maximum LUN size <b>128TB</b></p> <p>Number of LUN 1024 or more</p>			

Page No	Reference Clause No	Excising Clause				Amended Clauses						
			<p>Up to 1024 Maximum hosts supported  Maximum LUN size <b>128TB</b>  Number of LUN 1024 or more  Ability to take Snapshots / Clones  Continuous Data Replication (Synchronous) to the SAN at DC2.  Scalability upto 200 Disks.</p>					<p>Ability to take Snapshots / Clones  Continuous Data Replication (Synchronous) to the SAN at DC2.  Scalability upto 200 Disks.</p> <p>Alternatively bidders are to be proposed distributed storage platform such as Hadoop, Ceph, Hedvig..etc which configured to facilitate DR and multi-site with minimum of 100TB effective capacity and 10Gbps backend connectivity to the servers.</p>				
		SAN Switches	<p>8Gbps FC  Fully redundant.  Support for ISL and Link Aggregation.  Secure Management Access</p>					<p>8Gbps FC  Fully redundant.  Support for ISL and Link Aggregation.  Secure Management Access  Alternatively bidders are to be proposed distributed storage platform such as Hadoop, Ceph, Gluster, Hedvig..etc which configured to facilitate DR and multi-site with minimum of 100TB effective capacity and 10Gbps backend connectivity to the servers</p>				
		Backup Solution	<p>Inline Deduplicated D2D Backup Solution.  100TB Daily backup set with 3 Months Retention.  Backup clients for hypervisors for VM backups.  Backup server shall support parallel backup jobs to achieve 10TB/hr  CBT(Change Block Tracking) based incremental backups.  NFS and VTL Access method  Direct SAN backups (VTL).  2 x 10GbE and 2 x 8G FC Connectivity.  10TB/hr Throughput  Replication over Ethernet to the</p>					<p>Inline Deduplicated D2D Backup Solution.  100TB Daily backup set with 3 Months Retention.  Backup clients for hypervisors for VM backups.</p>				



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103	8.1	Key Activities	<p>Clause 8.1 is amended to add the following new clause</p> <p>8.1.9. Data Collection - The Employer shall be responsible for the collection of data (Enrolments).</p> <p>8.1.10 HTM Solution integration - Except for HTM solution integration with the NPP, to send requests for fund transfers. Pre defined rest APIs for NPP will be provided.</p> <p>8.1.11 National CA – NCA shall be the responsibility of the Employer.</p> <p>8.1.12 Sourcing and supplying consumables such as POS printer paper, PIN printer paper/forms shall be the responsibility of the Employer.</p>										

<b>Page No</b>	<b>Reference Clause No</b>	<b>Excising Clause</b>	<b>Amended Clauses</b>
107	8.2.10	The Employer will provide secure storage place for the portable devices.	The Employer will provide secure storage place for the portable devices. The Security aspects for blank and personalized cards need to be facilitated by the Bidder. However the delivery of DTC cards from NDF District centers to NDF DS centers shall be the responsibility of the employer.
114	10	Implmentation Schedule	Refer attached Annex 1 for the revied implementation schedule.
117	11.2.4	The entire solution shall be web based and web-enabled and shall not require installation of any software / library at the employer systems.	The entire solution shall be web based and web-enabled and shall not require installation of any software / library at the employer systems. This is applicable only for the enrolment front-end software.

All Bidders shall comply with this Addendum No 02 to the Bidding Document Volume 01, 02 and 03.

Chairman  
Cabinet Appointed Procurement Committee  
Ministry of Telecommunication and Digital Infrastructure  
79/1, 1<sup>st</sup> Floor, 5<sup>th</sup> Lane, Colombo 03, Sri Lanka

12<sup>th</sup> July 2016

## Annex 1

### 10. Implementation Schedule

No	Item:	Description:	Deadline:
1		Successful acceptance of the following: <ol style="list-style-type: none"> <li>1 Completion of NDI hosting Infrastructure</li> <li>2 Completion of the NDI software solution</li> <li>3 Certificate Authority and related services</li> <li>4 Delivery of Portable units</li> <li>5 Related Reports</li> </ol>	6 months from the contract effective date
2		Successful acceptance of the following: <ol style="list-style-type: none"> <li>1 Establishment of enrolment stations at Colombo DS</li> <li>2 Training of enrolment staff at Colombo DS</li> <li>3 Delivery of (Phase 1) DTCs</li> <li>4 Related Reports</li> </ol>	6 months from the effective date of the contract
3		Successful UAT acceptance of the following: <ol style="list-style-type: none"> <li>1 User Acceptance Test (UAT) Certification</li> </ol>	7 <sup>th</sup> month, from the contract effective date
4		Successful acceptance of the following: <ol style="list-style-type: none"> <li>1 Establishment of enrolment stations at all other NDF center</li> <li>2 Training of enrolment staff at all other NDF centers</li> <li>3 Successful personalization of DTCs</li> <li>4 Related reports</li> <li>5 Monthly operational report</li> </ol>	12 months from the date of successful UAT acceptance
5		Successful acceptance of the following: <ol style="list-style-type: none"> <li>1 Household Transfer Management (HTM) system</li> </ol>	8 months from the contract effective date
6		Successful Acceptance of the following: <ol style="list-style-type: none"> <li>1 Operation Acceptance Test (OAT) Certification</li> </ol>	13 <sup>th</sup> month, from the date of successful UAT acceptance
7		Successful acceptance of the following <ol style="list-style-type: none"> <li>1 DTC (Phase 2)               <ol style="list-style-type: none"> <li>1.1 Batches of 1 million DTCs (Phase 2)</li> <li>1.2 Maximum of 14 batches.</li> </ol> </li> </ol>	Within 1 month from the date of employers request for a 1 million batch.

8	Successful Acceptance of the following; 1 Related reports 2 Monthly operational report	Delivered Quarterly during the 4-year operational time period.
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