



Nepal Electricity Authority
(A Government of Nepal Undertaking)
Finance Directorate
INSTITUTIONAL STRENGTHENING PROJECT

Ref. No: 2078/79/ - 69_६

Date: Monday, 18 April 2022

To:
All prospective bidders,

Subject: Issuance of Addendum - 2 to Bid Document

OCB No. and Title: ICB/FD/EGMPAF/RMS-078/79-02 Procurement of Information Technology Products and Services "Supply and Installation of Revenue Management System (RMS)"

Project Title: Electricity Grid Modernization Project - Additional Financing

Dear Sir/Madam,

With reference to the bid published on 18 February 2022, we would like to inform all our prospective bidders about the issuance of Addendum to Bid Document-2 according to the ITB clause 8.2 of the bidding document.

Kindly acknowledge the receipt of the same at the project office.

Best regards,

Chandha Neupane

Chandha Neupane,
(Project Director)



Nepal Electricity Authority
(A Government of Nepal Undertaking)
Finance Directorate
INSTITUTIONAL STRENGTHENING PROJECT

OCB No. and Title: ICB/FD/EGMPAF/RMS-078/79-02 Procurement of Information Technology Products and Services "Supply and Installation of Revenue Management System (RMS)"
Project Title: Electricity Grid Modernization Project - Additional Financing

Pursuant to ITB Clause number 8 addendum -2 has been issued. All the bidders are requested to collect its hard copy from the project office. This addendum -2 shall be a part of the bidding document and failure to collect the same shall be at the risk of the bidder. The addendum -2 consists of a) Section - 2: Bid Data Sheet, b) Section -3: Evaluation and Qualification Criteria, c) Section -4: Bidding Forms and d) Section -6: Schedule of Requirements.

Addendum -2
Friday, 15 April 2022

S/N	Reference	Existing Clause	Revised Clause
1.	Vol-I, Section 2: Bid Data Sheet 11.2 (j)	The Bidder shall submit with its Technical Bid the following additional documents: None	The Bidder shall submit with its Technical Bid the following additional documents: Business Registration Certificate issued by the government of the country where the bidder or each Joint Venture or Consortium partner is registered. Bidders shall notarize all the documents and in the case of Foreign Bidder: The foreign bidders shall submit all notarized documents notarized from bidder's home country and shall be in English. The notarial certificate shall be authenticated by the Nepal based Embassy of the bidder's country. The authentication of the documents must be done between the published date of bid and the submission date of bid. Failure to authenticate the notarial certificate from the concerned Embassy within the stipulated time frame would lead to disqualification of the bidder.
2.	Vol-I, Page 4-9, Section 4: Bidding Forms	Schedule 1: Price Schedule for IT Products to be offered including Mandatory Spares to be supplied from abroad for Data Center (DC) Distribution/ToR Switches (Specifications)	Please refer to Annexure 1
3.	Vol-I, Page 4-16, Section 4: Bidding Forms	Schedule 1(a): Price Schedule for IT Products to Be Offered including Mandatory Spares to be supplied from abroad for Disaster Recovery Center (DRC)	Please refer to Annexure 2
4.	Vol-I, Page 4-50, Section 4: Form EXP - 1: Contractual Experience	Description of the Similarity in Accordance with 1.3 and 2.1 of Section 3 (Evaluation and Qualification Criteria) This form shall only be included if Criteria 2.3 and 1.1 of Section 3 (Evaluation and Qualification Criteria) is applicable.	Please refer to Annexure 3
5.	Vol-I, Page 3-8, Section 3: Evaluation and Qualification Criteria	B. Experience of the RMS Product OEM B1. (Title of the Columns)	Please refer to Annexure 4
6.	Vol-I, Page 4-25, Section 4: Schedule 1 and Schedule 4(a)	Workstations and PCs – 5 for each province – with soft calling and headphones (4 sets to be deployed at 7 locations)	Workstations and PCs – 4 for each province – with soft calling and headphones (4 sets to be deployed at 7 locations)



S/N	Reference	Existing Clause	Revised Clause
7.	Vol-II, Page 6-210, Section 6: 3.2.2.1.1	8. Hyper Converged Solution Requirements: The HCI solution should include Hypervisor License and should support minimum 3 of the industry leading hypervisors.	8. Hyper Converged Solution Requirements: The HCI solution should include Hypervisor License and should support minimum 2 of the industry leading hypervisors.
8.	Vol-II, Page 6-211, Section 6: 3.2.2.1.1	9. Scalability: Proposed solution shall support unlimited nodes in a same cluster without any federation	9. Scalability: Proposed solution shall support 150 nodes in a same cluster without any federation.
9.	Vol-II, Page 6-209, Section 6: 3.2.2.1.1 Hyperconverged Infrastructure, Software Defined Network and Cloud Orchestrator and	2. Computing and RAM Pool Total useable cores: Database compute (24 core, 3.0 GHz). Latest Generation processor across Cluster, Web Application & others (144 core, 2.1 GHz) Total RAM: Database Compute with 24 GB per CPU Core and for Web, Application and Other Compute with 8 GB per CPU Core DDR4 3200 MHz across Cluster	2. For DC Total useable cores: Database compute (32 core, 3.0 GHz). Latest Generation processor across Cluster Web Application & others (176 core, 2.1 GHz) Total RAM: Database Compute with 24 GB per CPU Core and for Web, Application and Other Compute with 8 GB per CPU Core DDR4 3200 MHz across Cluster For DR Total useable cores: Database compute (24 core, 3.0 GHz). Latest Generation processor across Cluster Web Application & others (144 core, 2.1 GHz). Total RAM: Database Compute with 24 GB per CPU Core and for Web, Application and Other Compute with 8 GB per CPU Core DDR4 3200 MHz across Cluster
10.	Vol-II, Page 6-21, Section 6: 2.3.5 Provisioning of Data Center and Disaster Recovery Center	e. System Integrator should create a backup site at the location specified by NEA. The location backup site will be finalized during the design discussion. The system integrator should supply the necessary hardware and software for keeping entire SAN-to-SAN replication. System Integrator must ensure to take the backups as per backup policy prepared by System Integrator and as finalized by NEA.	e. The Replication should be from Software defined storage to Software defined storage or hypervisor level. SI to maintain the requirement for Storage and host-based replication.
11.	Vol-II, Page 6-219, Section 6: 3.2.2.1.2 Internet Next Generation Firewall	2. The device should be from a family of products that attains ICSA Labs Certifications for Antivirus, Corporate Firewall, Ipsec and SSL VPN	2. The device should be from a family of products that attains ICSA or NSS Labs Certifications for Antivirus, Corporate Firewall, Ipsec and SSL VPN
12.	Vol-II, Page 6-87, Section 6: 2.3.20.1.5 RMS System – SLA Indicators Post implementation 2 Availability Service Levels	3. Tariff updation 0.1 of the monthly payment for the reduction of the service level	0.1% of the monthly payment for the reduction of the service level
13.	Vol-II, Page 6-18, Section 6: 2.3.4.1.1 Requirement Gathering,	e. SI should arrive at the optimal technical specification, sizing, license requirement, architecture, Bill of Material, SLA's and should formulate the RFP for procurement of solutions accordingly.	e. SI should arrive at the optimal technical specification, sizing, license requirement, architecture, Bill of Material and SLA's.
14.	Vol-II, Page 6-204, Section 6: 3.2.1 Design Consideration for Proposed Solution	2. SI shall provide system integration services along with supply, installation and commissioning of the required hardware, software etc. at the NEA Data Centre and Disaster Recovery Centre to deploy the Advanced Metering Infrastructure including the applications and integrate with both Legacy, Internal and external agencies as specified in the functional scope. SI's scope would	2. SI shall provide system integration services along with supply, installation and commissioning of the required hardware, software etc. at the NEA Data Centre and Disaster Recovery Centre to deploy the COTS – RMS stack solution including the applications and integrate with the existing MDMS as specified in the functional scope. SI's scope would include procurement of hardware and relevant software licenses, their installation and commissioning at NEA's DC and DRC.

S/N	Reference	Existing Clause	Revised Clause
		include procurement of hardware and relevant software licenses, additional licenses for existing RMS System, their installation and commissioning at NEA's DC and DRC.	
15.	Vol-II, Page 6-206, Section 6: 3.2.1.1.5 Scalability	Scalability is the most important aspect of DC and DRC. It is envisaged that the users and geographic locations may increase over the coming years with further enhancement. The system architecture and the network design should have the ability to handle the growth with respect to functions, users, load, and geographic sites. Also, applications must evolve to support new business requirements and make use of new technologies. SI must factor both vertical and horizontal scalability in the design and deployment of AMI solution.	Scalability is the most important aspect of DC and DRC. It is envisaged that the users and geographic locations may increase over the coming years with further enhancement. The system architecture and the network design should have the ability to handle the growth with respect to functions, users, load, and geographic sites. Also, applications must evolve to support new business requirements and make use of new technologies. SI must factor both vertical and horizontal scalability in the design and deployment of RMS. Bidder should ensure that IT infrastructure utilization should not cross the 70% utilization threshold during project lifecycle with the current scope of work.
16.	Vol-II, Page 6-12, Section 6: 2.2.7 Inspection and Testing	b) SI should set up a testing environment at the Disaster Recovery Center hosting facilities for testing requirements.	b) SI should set up a testing environment at the DC hosting facilities for testing requirements.
17.	Vol-II, Page 6-253, Section 6: 3.2.3.1.6 Firewall	26. The Firewall should support Static, Policy Base, Identity based, Multicast routing and Dynamic routing for RIP1 & 2, OSPF, OSPFv3, BGP4, ISIS, RIPing	26. The Firewall should support Static, Policy Base, Identity based, Multicast routing and Dynamic routing for RIP1 & 2, OSPF, OSPFv3, BGP4, RIPing
18.	Vol-II, Page 6-209, Section 6: 3.2.2 IT Equipment: Technical Specifications	Additional Clause added as part of scope of work	Bidder shall submit mandatory compliance (Yes/No) for all hardware technical specifications mentioned in the Bid Document. NEA reserves the right to treat bids with non-compliance to hardware technical specifications 'non-Responsive'
19.	Vol-I, Page 4-21, Section 4: Bidding Forms	Schedule 3: Design Services Additional Clause added as part of scope of work	Please refer to Annexure 2 (Software Change Control): During the contract duration, there will be instances where NEA will require the SI to implement functional requirements not envisaged in the bidding document. Instead of seeking an effort estimate for the envisaged change in software as it is normally NEA will pay the SI basis the agreed person month rates for the resources estimation on the change request. The SI will have to give a proposal to NEA regarding the utilization of the resources at the rate quoted as part of the Bid for a particular change request and NEA will evaluate the same. NEA will accept a functional requirement as a change when there is no reference to the functional requirement in the Bid Document. Any changes in page layouts, modifications of reports included in scope and page navigational requirements will not be constituted as a change. Bidders shall quote for manpower services category during implementation added in Annexure 2)

The amendments/clarifications/Addendum issued in this document shall be treated as a part of Bid Document from here and after and shall be read with the original Bid document and subsequently issued amendment documents. **Note:** All the relevant documents/declarations/certificates etc., which are required to be submitted along with the proposal shall be submitted in the required formats, wherever applicable as mentioned in the Bid Document.

For further details, please contact:

Project Director, Institutional Strengthening Project,
Finance Directorate, Nepal Electricity Authority, Durbar Marg, Kathmandu, Nepal
Telephone: +977-1-4153201/ 4153310; e-mail: ispnea@gmail.com



Annexure 1

DC and DR Network Switching Specifications – New Sub-Section being added under Vol II – Section 3 Technical Specifications

S/N	Specifications for Distribution/ToR Switches	Compliance Yes/No
A	Solution Requirement	
	The Switch should support non-blocking Layer 2 switching and Layer 3 routing	
	There switch should not have any single point of failure like power supplies and fans etc. should have 1:1/N+1 inbuilt level of redundancy	
B	Hardware and Interface Requirement	
	Switch should have the 24 x 1/10/25G SFP and should have 4 x 40G/100G QSFP28 ports. The switch should be scalable to additional 50% of the asked above ports, switch should be populated with 16x10G Multimode SFP and 2x100G ports.	
	Switch should have 16GB DRAM and 32GB internal Flash/Storage	
	Switch should support Configuration roll-back	
	Switch should support for different logical interface types like loopback, VLAN, SVI/RVI, Port Channel, multi chassis port channel/LAG etc.	
	The switch should support 80,000 IPv4 unicast routes and 80,000 IPv6 unicast routes entries in the routing table including 40,000 multicast routes	
	The switch should support hardware-based load sharing at wire speed using LACP and multi chassis ether channel/LAG	
	Switch should support minimum 3 Tbps of switching capacity	
C	Layer2 Features	
	Spanning Tree Protocol (IEEE 802.1D, 802.1W, 802.1S)	
	Switch should support minimum 256,000 no. of MAC addresses	
	Switch should support 8 Nos. of link or more per Port channel (using LACP) and support 64 number of ports per Link Aggregation Group	
	Support for broadcast, multicast and unknown unicast storm control to prevent degradation of switch performance from storm due to network attacks and vulnerabilities	
D	Layer3 Features	
	Switch should support static and dynamic routing like Static, OSPF and BGP	
	Switch should support a datacentre Fabric build on mature standards and protocols such as BGP EVPN/VXLAN to normalize datacentre and fabric operations. No proprietary solutions are to be deployed for fabric	
	Should support BGP, MBGP, IS-IS for IPv4 and IPv6	
	Switch should support multicast traffic reachability using PIM-SM and SSM	
E	Availability	
	Switch should provide gateway level of redundancy in IPv4 and IPv6 using HSRP/ VRRP	



S/N	Specifications for Distribution/ToR Switches	Compliance Yes/No
	Switch should support for BFD For Fast Failure Detection	
F	Quality of Service	
	Switch system should support 802.1P classification and marking of packet CoS, DSCP etc.	
	Switch should support for different type of QoS features for real time traffic differential treatment using WRED and SP Queuing	
	Switch should support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x	
G	Security	
	Switch should support for deploying different security for each logical and physical interface using Port Based access control lists of Layer-2 to Layer-4 in IP V4 and IP V6 and logging for fault finding and audit trail	
	Switch should support control plane i.e., processor and memory Protection from unnecessary or DoS traffic by control plane protection policy	
	Switch should support AAA using TACACS+ / Radius	
	Switch should support for Role Based access control (RBAC) for restricting host level network access as per policy defined	
H	Manageability	
	Switch should support for RMON/RMON-II for central NMS management and monitoring	
	Switch should provide remote login for administration Telnet, SSHv2	
	Switch should support for management and monitoring status using different type of Industry standard NMS using SNMP V2 and V3	
	Switch should support for basic administrative tools like Ping and traceroute	
	Switch should support central time server synchronization using Network Time Protocol NTP V4	
	Switch should be IPv6 Certified (IPv6 Logo Ready or USGv6)	
	Switch should be EAL3/ NDPP /NDcPP or above Certified under common criteria	
G	Out of Band Management	
	The DC Switches should have the capabilities to be deployed and managed by a software solution installed on a ESXi or KVM Hypervisor as an Out of Band Management tool.	
	OOB Management Tool should provide full lifecycle management of the network including Design, Build, Deployment and Validation and support Zero Touch provisioning that takes a device from initial boot to a point where it is managed by the Fabric Manager.	
	OOB management Tool should support DC switching design with industry standard protocols like Ethernet, IP, BGP in the physical/underlay and EVPN-VXLAN in the overlay of the proposed architecture with visualizations for path analysis, heat maps and bandwidth	
	Should support Network Virtualization Overlays with VXLAN data plane, EVPN control plane, Edge-Routed Bridging Overlay and Proxy ARP and ND	



S/N	Specifications for Distribution/ToR Switches	Compliance Yes/No
	Should support deployment of 3-Stage and 5-Stage leaf-spine IP fabrics with Multihoming by using industry standard EVPN ESI with multi-tenancy and workload isolation at Layer-2 and Layer-3 using VLAN, VXLAN, EVPN, VRF (Routing Instance) and Group Based Policies	
	Should support anycast gateway that configures every SVI/IRB interface that participates in the stretched L2 service with the same IP/MAC address	
	Should provide full network-centric DC Switching Infra health view to operations and NOC teams using built-in Dashboards which presents contextualized information on a wide range of categories including BGP status, Physical Layer-1 Visualizations, Interface Expectations, Configuration compliance, Revenue facing Servers, Deployment Anomalies, Routing Anomalies, Hardware (CPU, TCAM, Memory, Power), Configuration Deviation	
	Solutions should provide Advanced telemetry that can collect streaming telemetry data from switches and monitor and get alerts on data transfers across a fabric	
	Should support creation of Service Level Agreements in one central location and alert anytime there is a deviation from defined properties. Should have ability to check the compliance of devices and services across the entire fabric.	
	Should support Role-based Access Control (RBAC) for logging into OOB Management tool. Should support LDAP, AD, TACACS+, and RADIUS for authenticating and authorizing users and should support Restful APIs for 3rd Party Integrations.	
H	Warranty and Maintenance	
	The bidder should provide comprehensive warranty till end of contract period with 24 x 7 x 365 for all equipment and software included in the proposed solution.	



Annexure 2

Schedule 1: Price Schedule for IT Products to Be Offered including Mandatory Spares to be supplied from abroad for Data Center (DC)

Name of Bidder: _____ IFB Number: _____ Page: _____ of _____

Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule No. 1: IT Products including Mandatory Spares to be supplied from abroad for Data Centre							LC: Local Currency	
Item No.	Item description	Estimated		DPU Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Remarks
		Unit	Quantity	FC				
1	2	3	4	Currency#	Unit Rate	Amount (in USD)	8=7	9
1	RMS Software Component					7 = (6) x (4)		
1A	Software Licenses - Application							
1	RMS License	Nos	6000000	USD				
2	Mobile Device & Application Management System	Lot	1	USD				
3	Annual Technical Support for 2nd Year	Lot	1	USD				
Sub -Total 1A - Software Licenses Application				USD				
1B	Software Licenses - IT Component							
1	Private Cloud Orchestrator Solution	Lot	1	USD				
2	Anti-Virus Software (For all the proposed virtual Machines and Desktops)	Lot	1	USD				
3	Virtualization Software	Lot	1	USD				
4	Database in High Availability (HA) for 6000000 consumers	Lot	1	USD				
5	Middleware in High Availability (HA) for 6000000 consumers	Lot	1	USD				
6	Server OS License (For all the proposed virtual Machines)	Lot	1	USD				
Sub -Total 1B - Software Licenses -IT component				USD				
2	RMS hardware Component							
2A	Hardware - Servers							
1	Database compute Nodes (Total 32 cores)	Lot	1	USD				
2	Web, Application and Other Compute Nodes (Total 176 cores)	Lot	1	USD				
3	Enterprise level NAS storage	TB	62	USD				



Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule No. 1: IT Products including Mandatory Spares to be supplied from abroad for Data Centre							LC: Local Currency	
Item No.	Item description	Estimated		DPU Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Remarks
		Unit	Quantity	FC				
				Currency#	Unit Rate	Amount (in USD)		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
Sub -Total 2A - Hardware-Servers				USD				
2B	Hardware - Security Devices							
1	Internet Next Generation-Firewall	Nos.	2	USD				
2	Web Application firewall	Nos.	2	USD				
3	Internet Intrusion Prevention Solution	Nos.	2	USD				
4	Advance Persistence Threat (APT)	Nos.	2	USD				
5	Anti-DDoS Solution	Nos.	2	USD				
Sub -Total 2B - Hardware Security Devices				USD				
2C	Hardware - Network Devices							
1	Distribution/ToR Switches	Nos.	2	USD				
Sub -Total 2C- Hardware Network Devices								
2D	Hardware - Racks, Cables & Jacks							
1	CAT6 Cable, Patch cord, Jacks etc.	Lot	1	USD				
2	Fiber Optical Cable, Connectors, Patch Cord etc.	Lot	1	USD				
Sub-Total 2D - Hardware Racks, Cables & Jacks				USD				
3	Customer Care Centre (CCC)							
3A	CCC-Software							
1	VM base License for ACD (2 licenses at one Location)	Nos.	2	USD				
2	IVR+ Dialer+ Recording+ reporting	Nos.	1	USD				
3	PRI- Gateway	Nos.	1	USD				
4	Agent License (3 licenses to be deployed at 7 locations)	Nos.	21	USD				
5	Supervisor License (1 License at 7 locations)	Nos.	7	USD				
Sub-Total 3A- CCC Software				USD				
3B	CCC-Hardware							
1	Server with OS for ACD + IVR (2 Servers to be deployed at central location)	Nos.	2	USD				
2	Workstations and PCs – 4 for each province – with soft calling and headphones (4 sets to be deployed at 7 locations)	Nos.	28	USD				



Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule No. 1: IT Products including Mandatory Spares to be supplied from abroad for Data Centre							LC: Local Currency	
Item No.	Item description	Estimated		DPU Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Remarks
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount (in USD)		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
3	Network devices (1 firewall and 1 Switch to be deployed at 7 locations)	Nos.	7	USD				
4	Multi-function printer (1 Printer to be deployed at 7 locations)	Nos.	7	USD				
5	Furniture (5 sets to be deployed at 7 locations)	Nos.	35	USD				
6	IP Phone (5 sets to be deployed at 7 locations)	Nos.	35	USD				
Sub-Total 3B- CCC Hardware				USD				
4	Miscellaneous							
1	Scanner required for data digitization	Nos	150	USD				
Sub-Total 4- Miscellaneous				USD				
<i>Sub Total 1 (Software Component App license+ DC) in USD</i>								
<i>Sub Total 2 (Hardware Component DC) in USD</i>								
<i>Sub Total 3(Customer Care Centre Component) in USD</i>								
Total for Schedule 1 (Total of column 8 to be carried forward to Schedule 5: Grand Summary)							All Amounts are in USD	

- Note:
- Bidder may quote quantities of line items based on their sizing and proposed solution.
 - NEA reserves right to addition or deletion of any quantity and item provision under the BOQ.
 - BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
 - Bidders is responsible for implementation of the complete solution any item/solution which is not covered in BOQ but still require for desired performance, the same shall be included by the bidder in the bid form/commercial. No change request will be accepted in this regard
 - Bidder shall quote the rates excluding taxes and duties applicable in Nepal like Custom, VAT etc., but shall include all taxes, duties outside Nepal and any applicable business taxes in Nepal like TDS (income tax) etc.

Specify currency in accordance with BDS ITB Clause 37.1 of the Bidding Documents. * Strike-out whichever is not applicable.

Name of Bidder: **Date:**

Signature of Bidder: **(Printed Name):**

(Designation): **(Common Seal):**



Schedule 1(a): Price Schedule for IT Products to Be Offered including Mandatory Spares to be supplied from abroad for Disaster Recovery Center (DRC)

Name of Bidder: _____ IFB Number: _____ Page: _____ of _____

Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule No. 1: IT Products to Be Offered including Mandatory Spares to be supplied from abroad for Disaster Recovery Center							LC: Local Currency	
Item No.	Item description	Estimated		DPU Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Remarks
		Unit	Quantity	FC			FC	LC
				Currency#	Unit Rate	Amount (in USD)		
1	2	3	4	5	6	7 = (6) x (4)	8=7	9
1	RMS Software and Hardware							
1B	Software Licenses - IT Component							
1	Private Cloud Orchestrator Solution	Lot	1	USD				
2	Anti-Virus Software (For all the proposed virtual Machines and Desktops)	Lot	1	USD				
3	Virtualization Software	Lot	1	USD				
4	Database in High Availability (HA) for 6000000 consumers	Lot	1	USD				
5	Middleware in High Availability (HA) for 6000000 consumers	Lot	1	USD				
6	Server OS License (For all the proposed virtual Machines)	Lot	1	USD				
Sub -Total 1B - Software Licenses -IT component				USD				
2	RMS hardware Component							
2A	Hardware - Servers							
1	Database compute Nodes (Total 24 cores)	Lot	1	USD				
2	Web, Application and Other Compute Nodes (Total 144 cores)	Lot	1	USD				
3	Enterprise Level NAS Storage	TB	62	USD				
Sub -Total 2A - Hardware-Servers				USD				
2B	Hardware - Security Devices							
1	Internet Next Generation-Firewall	Nos.	1	USD				
2	Web Application firewall	Nos.	1	USD				
3	Internet Intrusion Prevention Solution	Nos.	1	USD				
4	Advance Persistence Threat (APT)	Nos.	1	USD				
5	Anti-DDoS Solution	Nos.	1	USD				



Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule No. 1: IT Products to Be Offered including Mandatory Spares to be supplied from abroad for Disaster Recovery Center							LC: Local Currency	
Item No.	Item description	Estimated		DPU Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Remarks
		Unit	Quantity	FC				
1	2	3	4	Currency#	Unit Rate	Amount (in USD)	8=7	9
Sub -Total 2B - Hardware-Security Devices				USD				
2C	Hardware - Network Devices							
1	Distribution/ToR Switches	Nos.	2	USD				
Sub -Total 2C- Hardware - Network Devices								
2D	Hardware - Racks, Cables & Jacks							
1	CAT6 Cable, Patch cord, Jacks etc.	Lot	1	USD				
2	Fiber Optical Cable, Connectors, Patch Cord etc.	Lot	1	USD				
Sub-Total 2D - Hardware Racks, Cables & Jacks								
<i>Sub Total 1 (Software Component) In USD</i>								
<i>Sub Total 2 (Hardware Component) IN USD</i>								
Total for Schedule 1(a) (Total of column 8 to be carried forward to Schedule 5: Grand Summary)							All Amounts are in USD	

- Note:
- Bidder may quote quantities of line items based on their sizing and proposed solution.
 - NEA reserves right to addition or deletion of any quantity and item provision under the BOQ.
 - BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
 - Bidders is responsible for implementation of the complete solution any item/solution which is not covered in BOQ but still require for desired performance, the same shall be included by the bidder in the bid form/commercial. No change request will be accepted in this regard
 - Bidder shall quote the rates excluding taxes and duties applicable in Nepal like Custom, VAT etc., but shall include all taxes, duties outside Nepal and any applicable business taxes in Nepal like TDS (income tax) etc.
- Specify currency in accordance with BDS ITB Clause 37.1 of the Bidding Documents. * Strike-out whichever is not applicable.

Name of Bidder: Date:=.....
 Signature of Bidder: (Printed Name):
 (Designation): (Common Seal):



Schedule 3: Design Services

Revenue Management System (RMS) for Nepal Electricity Authority							FC: Foreign Currency	
Schedule 3: Design Services								
Item No.	Item Description	Estimated		Unit Prices		Total Prices		
		Quantity	Unit (NPR)	Local Currency Portion	Foreign Currency Portion	LC	FC	
				NRs	Currency			
1	2	3	4	5	6	7=3x5	8=3x6	
1	RMS Implementation Service	1	Lumpsum					
1a	Manpower of less than 7 years of experience	1.5	Years					
1b	Manpower of more than 7 years of experience	1.5	Years					
2	Data Digitisation Cost (2A + 2B)	1	Lumpsum					
2A	Scanning and barcoding cost (for existing consumer base)	1	Lumpsum					
2B	Data Entry cost (for existing consumer base)	1	Lumpsum					
3	Data Migration	1	Lumpsum					
4	Integration Services for Customer Care Centre	1	Lumpsum					
	Total for Schedule 3 (Total of column 7 & 8 to be carried forward to Schedule 5: Grand Summary)							
Total for Schedule 3 (Total of column 7 & 8 to be carried forward to Schedule 5: Grand Summary)								

Note: 1) Bidder shall quote the rates excluding taxes and duties applicable in Nepal like Custom, VAT etc., but shall include all taxes, duties outside Nepal and any applicable business taxes in Nepal like TDS (income tax) etc.

Specify currency in accordance with BDS ITB Clause 37.1 of the Bidding Documents. * Strike-out whichever is not applicable.

Name of Bidder: **Date:**=.....
Signature of Bidder: **(Printed Name):**
(Designation): **(Common Seal):**



Annexure 3

Form EXP - 1: Contractual Experience

Fill out one (1) form per contract.

Contractual Experience		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> System Integrator/ JV/ Consortium Member <input type="checkbox"/> Supplier <input type="checkbox"/> Subcontractor	
Total Contract Amount	\$	
Total Consumer Base		
If partner in a joint venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Purchaser's name		
Address		
Telephone/Fax Number		
E-mail		
Description of the Similarity in Accordance with 2.3 and 1.1 of Section 3 (Evaluation and Qualification Criteria)		

- Note -

This form shall only be included if Criteria 2.3 and 1.1 of Section 3 (Evaluation and Qualification Criteria) is applicable.



Form EXP - 2: Technical Experience

Fill out one (1) form per contract.

Technical Experience	
Name of Product:	
Manufacturer:	Address and Nationality:
Requirements in Accordance with Criterion 2.3 and 1.1 of Section 3 (Evaluation and Qualification Criteria)	
(i) Product has been in production for at least years.	
(ii) Product (or equipment) has been sold a minimum of units of similar type and specification over the last three (3) years.	
(iii) Product has been in operation for a minimum of years.	
(iv) Product has been implemented RMS project for monthly consumer base of Million during last years as per the section 3	

- Note -

This form shall only be included if Criterion 2.3 and 1.1 of Section 3 (Evaluation and Qualification Criteria) is applicable. Add pages as necessary. The Purchaser reserves the right to verify authenticity of Bidder submissions.



Annexure: 4

B Experience of the RMS Product OEM	
The experience of the RMS Product OEM in B.1 shall be evaluated on the basis of following sub evaluation criteria, and in accordance with the level of responsiveness and the corresponding percentages of scores, as defined below:	
Rating	Description of rating of scores
Excellent Submission	The bidder has submitted 3 projects as per the requirements
Good submission	The bidder has submitted 2 projects as per the requirements
Acceptable submission	The bidder has submitted 1 project as per the requirements
Unacceptable submission	Bidder has not sufficiently demonstrated relevant experience

S/N	Evaluation Criteria	Score	Excellent Submission	Good Submission	Acceptable submission	Unacceptable submission	Documentary evidence
B.1	<p>The Offered COTS (Commercial Off-The Shelf) Based Revenue Management System (RMS) should have been successfully implemented in at least One (1) RMS projects for a monthly consumers base of at least 3 million during the last Seven (7) years on On-Premise/ Infrastructure as a service including supply, delivery, design, customization, integration, implementation, testing, commissioning of Hardware and Software Each such implementation should have covered at least Six (6) modules (Modules 1 to 5 are mandatory) out of the below listed modules:</p> <ol style="list-style-type: none"> 1. Metering 2. Billing 3. Collection 4. New Connection, Disconnection & Reconnection 5. Energy Accounting or Customer Relationship Management 6. Web Portal and Mobile Application 7. Management Information System 8. Customer Care Centre 9. Document management system (DMS) 	15	100%	80%	60%	0%	<ol style="list-style-type: none"> i. Form EXP-2 ii. Copy of Work Order / Purchase Order iii. Completion certificate where OEM is the SI/ completion certificate* obtained by the SI along with Self certification of work and contribution by the OEM. <p>(*completion certificate stating the completion of at least Go-Live stage.) Relevant whitepapers of the product OEM.</p>

