

Addendum to the BIDDING DOCUMENT
(SINGLE-STAGE)

Issued on: January 8, 2016

for the
Design, Development, Configuration,
Hardware Supply, Installation and
Maintenance for the Myanmar
National Portal

IFB No: G 3.1

**Project: Telecommunications Sector Reform
Project**

**Purchaser: Ministry of Communications and
Information Technology, The Republic of the
Union of Myanmar**

Addendum to “clause 7 under Invitation for Bids (IFB)”

(Page - 4)

7. Bids must be delivered to the address below at or before **March 4, 2016, 14:00**. Late bids will be rejected. Bids need to be secured by a Bid Security. The amount of Security required is USD 16,000. Bids will be opened in the presence of Bidders’ representatives who choose to attend at the address below at **March 4, 2016 14:00**.

Addendum to “ITB 6.1 (a) under Section II Bid Data Sheet(BDS)”

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ITB 6.1 (a)	6. Prime bidder or Partner in charge in case of Joint Venture should have the bank’s certificate of solvency and a statement from their bank certifying their financial capability to undertake the project.
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Addendum to “ITB 21.1 under Section II Bid Data Sheet (BDS)”

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ITB 21.1	Deadline for bid submission is: March 4, 2016
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Addendum to “ITB 24.1 under Section II Bid Data Sheet (BDS)”

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ITB 24.1	<p>Time, date, and place for bid opening are:</p> <p>Date: March 4, 2016</p> <p>Time: 14:00</p> <p>Place: Ministry of Communications and Information Technology e-Government Department, Information Technology and Cyber Security Department (ITCSD). S12 Exchange Building, Ground Floor, Zabu Kyatthayay Road, Zabuthiri Township, Nay Pyi Taw, Myanmar.</p>
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Addendum to “ITB 39 under Section II - Bid Data Sheet (BDS)”

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ITB 39	<p>Complaints Procedure</p> <ul style="list-style-type: none"> • Any party may make a complaint at any stage of the procurement process. No complaint will be responded to during the evaluation period. The Purchaser will review complaints received during the evaluation period and a response issued only after the evaluation is completed. • Complaints shall be addressed to the Purchaser as named in the BDS (ITB 10.1). The Purchaser will investigate the grounds for the complaint and, with the exception of those complaints received during the evaluation period as described above, respond to in writing within 14 calendar days of receiving the complaint • In the event that the response from the Purchaser does not satisfy the bidder or there is no response to the complaint it should be referred to the designated official of the Ministry of Communication & Information Technology. • The address to sending complaints to: <p>Attention: Mr. Than Htun Aung Director, Post and Telecommunications Department Facsimile +95 67 407539, E-mail: tsrproject2014@gmail.com; thanhtunaung@mptngw.net.mm</p> <p>City: Nay Pyi Taw Country: Myanmar</p> <p>CC</p> <p>Ms. Tenzin Dolma Norbhu Task Team Leader The World Bank Country Office Email: tnorbhu@worldbank.org</p>
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Addendum to “GCC12.1 under Section V–Special Conditions of Contract”
(Page-137)

GCC 12.1	<p>Subject to the provisions of GCC Clause 12 (Terms of Payment), the Purchaser shall pay the Contract Price to the Supplier in the manner specified below. Except as otherwise noted, all payments shall be made for the portion of the Contract Price corresponding to the goods or services actually Delivered, Installed, or Operationally Accepted, per the Contract Implementation Schedule, at unit prices and in the currencies specified in the Price Schedules of the Contract Agreement.</p> <p><i>Payment Schedule</i></p> <p><i>a) Advance Payment</i> Ten percent (10%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid against receipt of a claim accompanied by the Advance Payment Security specified in GCC Clause 13.2.</p> <p><i>b) Analysis, System Design Architecture, and System Prototype and Development</i> Fifteen percent (15%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid after Approval of Analysis report, System Design Architecture and System prototype and development.</p> <p><i>c) Supply and installation of Hardware Equipment</i> Fifteen percent (15%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid upon the supply and installation of the hardware equipment in the data center.</p> <p><i>d) Testing</i> Ten percent (10%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid after Approval of Successful Operational Acceptance Test of the System integrated as whole.</p> <p><i>e) Deployment</i> Fifteen percent (15%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid upon successful system commissioning of the National Portal.</p> <p><i>f) Execution of Training Program</i> Five percent (5%) of the total Contract Price will be paid upon execution of training program and submission of acceptable training report;</p> <p><i>g) Operation and Maintenance</i> Thirty percent (30%) of the total Contract Price will be paid as six half yearly installments of 5% each for the maintenance period. Operation and Maintenance cost includes all license fees, subscription fees and warranty extension fees during the Operation and maintenance period.</p>
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Addendum to “Clause 1.2.10 under Section VI - Technical Requirements”
(Page-155)

1.2.10 For users without internet connection, the Supplier shall propose an optional approach where hot content can be accessed using mobile text-based phones with SMS and USSD. Also, the SMS and USSD should be available in Myanmar and English.

Moreover, the successful bidder is expected to implement/provision the infrastructure for SMS and USSD services as part of the project.

Addendum to “Clause 1.2.16 under Section VI - Technical Requirements”
(Page-162)

1.2.16 The Supplier shall work with the client to populate at least 80 web pages content for the Portal in two languages (Myanmar and English). It will be 80 pages of English and 80 Pages of Myanmar. The 80 web pages are to be integrated with the CMS. The content shall be provided by the Portal steering committee. The Supplier may have to translate the content available in Myanmar language to English and vice versa.

Addendum to “Clause 1.2.20.2 under Section VI - Technical Requirements”
(Page-163)

1.2.20.2 A CMS should have the following key features and to facilitate ease in managing and publishing content:

Necessary Features:

- Intuitive WYSIWYG editor , easy to use HTML editor
- Form builder such as drag and drop field creation, quickly create completely customized forms
- Workflow Integration: Run content through an approval or review process.
- Web Content Display: A portlet that allows content manager to place web content on a page in your portal.
- Dynamic Publisher Portlet: A flexible tool to publish various types of contents and it should allow showing list of web contents. Each contents of the list might be shown as a mere title, a summary, or even in full details etc. It's also should allow end user to click to see it in detail, or even for some content types (blogs, news page) to be forwarded to the original context which originated the content.

- Scheduler: Lets content manager schedule when content is reviewed, displayed and removed.

Addendum to “Clause 1.3.2 under Section VI - Technical Requirements”
(Page-167)

1.3.2 The Supplier shall ensure the response time of the Portal as below

1. Shall not exceed three(3) seconds for ninety-eight percentage (98%) of the time under an environment of 3,000 concurrent users for a specific session with a download speed of 512 Kbps from user location
2. Shall not exceed Five(5) seconds for ninety-eight percentage (98%) of the time under an environment of 3,000 concurrent users for a specific session with a download speed of 256 Kbps from user location
3. Shall not exceed Eight(8) seconds for ninety-eight percentage (98%) of the time under an environment of 3,000 concurrent users for a specific session with a download speed of 128 Kbps from user location
4. The mentioned above 3,000 concurrent users is normal load and expected number for peak load is 5,0000 concurrent users.

Addendum to “Clause 2.1 under Section VI (C) - Technical Specifications”
(Page-169)

2.1 Solution Components

The components required to supply, install, develop and maintain, but not limited to:

1. Hardware (servers, storage, backup devices etc.).
2. Network and Security solution (switches, firewall, Single Sign On etc.,) SSO is optional. Portal should use build in authentication features of the platform to provide personalized services to users.
3. Systems software (operating systems, interface software etc.)
4. Integrated portal development platform with supports application integration
5. Ancillary services (documentation, training, structured cabling, racks and associated cabling, support etc.)
6. Performance Monitoring tool

Addendum to “Clause 2.2.4 under Section VI (C) - Technical Specifications”
(Page-170)

- 2.2.4 The Supplier shall fully comply with the Government’s system security policies, standards and instructions as well as standards and policies

issued by the Government subsequently or Comply with IS027001 standard for information security management system.

Addendum to “Clause 4.0.1 under Section VI - Technical Requirements”
(Page-182)

4.0.1 The Supplier shall propose an implementation plan for detailing the project schedule to meet the key project milestones. The project schedule shall show details up to task level, how each milestone could be achieved within the timeframe specified in the implementation plan. The project schedule shall reflect possible overlaps between key activities and their interdependencies. The project schedule shall also highlight the critical path. The key project milestones and completion date are as follows:

<i>S/N</i>	<i>Project Milestones</i>	<i>Completion Dates</i>
1	Submission of Implementation Plan	Within 2 Weeks from the effective date of contract.
2	System Acceptance	Not later than <u>24 Weeks</u> from the effective date of contract.
3	Performance Guarantee Period (PGP)	Within 26 Weeks from the effective date of the contract.
4	System Commissioning	Not later than 28 Weeks from the effective date of contract.
5	System Warranty Period (for System)	Commence on the date of commissioning (irrespective of delays) for a period of <u>thirty six (36)</u> calendar months.

Addendum to “Clause 5.1 Change and Configuration Management under Section VI - Technical Requirements”
(Page-193)

Service Request (SR) will not be paid. Change requests involving system modification and addition of features may be paid on a case-to-case basis depending on effort estimates and negotiations.

Addendum to “Portal Servers under Annex 2– Required Hardware list”
(Page-235)

Portal Servers (3 Units)

Components	Specifications
Processor	Each server should be configured with a minimum 8 core 3.2 GHz CPU or higher available in latest series
Memory	Each server should be configured with at least 256 GB of memory. The server should have at least 24 DIMM slots and a maximum scalability of up to 700 GB of DDR3 memory with all CPU configurations
HDD	The server should support a minimum of 2 hot plug SAS, SATA and SSD hard disk drives & be supplied with 2x600GB 10K RPM HDD
Interface ports	The server should be configured to provide for port and card level redundancy
IO Bandwidth	The server should provide minimum 2 x 10Gb for Ethernet and 2x8 Gb for FC. (Or) The server should provide minimum 4 x 10Gb CNA (Converged Network Adaptor) ports.
HBA	4Gb F Single-Port PCIe HBA
Management	It should support remote/virtual KVM capability from an external keyboard; video monitor and mouse to all servers installed in the datacenter through the management controllers and should also support virtual media for DVD access.
Power	Hot-swap, power supplies in N+1 Redundancy.
FAN	Hot-swap, N+1 Redundancy fan modules.
Form Factor	Rack

Addendum to “Fabric Switch Specifications under Annex 2– Required Hardware list”
(Page-236)

SAN Fabric Switch (2 Units)

Specifications

- Up to 6 TB, 96 DIMM slots supporting 64 GB LRDIMMs
- Integrated 4 x10 GbE per compute node (up to 8 ports total), optional 1/10/40 GbE,
- Fibre Channel and Infiniband adapters
- Up to 8 PCIe Gen 3; up to 4 x16 slots; up to 4 x8 slots
- The SAN switches should have capability of ISL trunking.
- The SAN switches should support multiple OS.
- The switches should have web based management software for administration and configuration.
- The SAN switches should support in built diagnostics, power on self-test, command level diagnostics, online and offline diagnostics.
- The SAN switches should support hardware Port security, Port Zoning and LUN Zoning.
- The SAN switches should support Secure Shell (SSH) encryption to provide additional security for Telnet sessions to the switch.
- The SAN switches should support multilevel security on console access prevent unauthorized users from altering the switch configuration.
- The SAN switches should support the following diagnostics: Online Diagnostics, Internal, Loopbacks, SPAN, FC Debug, Syslog, Online system health, Power on self-test (POST), etc.
- The SAN switches should have applications for device management and full fabric management. The management software should be able to perform following: Fabric View, Summary View, Physical View, Discovery and Topology Mapping, Network Diagnostics, Monitoring and Alerts, Any other specification, etc.

Addendum to “ Site Tables under Section VII –Technical Requirements ”(Page-205)

System, Subsystem, or lot number: [if a multi-lot procurement, insert: **lot number**, otherwise state “**entire System procurement**”][specify: **the detailed information regarding the site(s) at which the System is to be operated**]

Site Code	Site	City / Town / Region	Site Information (e.g., building , floor, department, etc)	Quantity
1	Hardware	Nay Pyi Taw	Data Center e-Government Department, Information Technology and Cyber Security Department (ITCSD), Ministry of Communications and Information Technology S12, Exchange Building, Zabu Kyatthayay Road, Zabuthiri Township, Nay Pyi Taw, Myanmar.	-
1.1	Portal Servers			3
1.2	Fabric Switch			2
1.3	Cloud Enabled Firewall			2
1.4	SAN Storage			1
1.5	Operation System (OS)			-
1.6	Web Server Software			-
1.7	Database Software			-
1.8	Storage management, Tape library backup system software			-

Site Code	Site	City / Town / Region	Site Information (e.g., building, floor, department, etc)	Quantity
1.9	Cloud Platform			-
1.10	Cloud Network Infrastructure			-
1.11	Cloud Security			-
1.12	Cloud Management			-

Addendum to “Clause 2.3 under Section VII –Sample Forms”(Page-257)**2.3 Supply and Installation Cost Summary Table**

System or Subsystem number: *[if a multi-lot procurement, insert: Subsystem number; otherwise state “entire System procurement”]* *[as necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed.]*

Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15 (ITB Clauses 27 and 28 in the two-stage SBD).

Line Item No.	Subsystem / Item	Supply and Installation Cost Sub-Table No.	Supply & Installation Prices				
			Locally supplied items <i>[insert: Local Currency]</i> Price	Items supplied from outside the Purchaser’s Country			
			<i>[insert: Local Currency]</i> Price	<i>[insert: Local Currency]</i> Price	<i>[insert: Foreign Currency A]</i> Price	<i>[insert: Foreign Currency B]</i> Price	<i>[insert: Foreign Currency C]</i> Price
0	Project Plan	--	--	--	--	--	--
1	Headquarters Subsystem	1					
1.1	Hardware, LAN & General-Purpose Software	1					
1.2	Database System	1					
1.3	Training	1					
2	Region 1 Branch Offices Subsystems	2					

			Supply & Installation Prices				
			Locally supplied items	Items supplied from outside the Purchaser's Country			
Line Item No.	Subsystem / Item	Supply and Installation Cost Sub-Table No.	[insert: Local Currency] Price	[insert: Local Currency] Price	[insert: Foreign Currency A]Price	[insert: Foreign Currency B]Price	[insert: Foreign Currency C]Price
2.1	Hardware, LAN & General-Purpose Software	2					
2.2	Training	2					
j	Region J Branch Offices Subsystems	j					
j.1	Hardware, LAN & General-Purpose Software	“					
j.2	Subsystem Design and Programming Services						
j.3	Training	“					
:							
k	WAN and integrated database access Subsystems	k					
k.1	WAN	“					
k.2	Database Access Software	“					
k.3	Training	“					
:							

		Supply & Installation Prices					
			Locally supplied items	Items supplied from outside the Purchaser's Country			
Line Item No.	Subsystem / Item	Supply and Installation Cost Sub- Table No.	<i>[insert: Local Currency] Price</i>	<i>[insert: Local Currency] Price</i>	<i>[insert: Foreign Currency A]Price</i>	<i>[insert: Foreign Currency B]Price</i>	<i>[insert: Foreign Currency C]Price</i>
m	Data Conversion Service	m					
SUBTOTALS							
TOTAL (To Grand Summary Table)							

Note: -- indicates not applicable. “ Indicates repetition of table entry above. Refer to the relevant Supply and Installation Cost Sub-Table for the specific components that constitute each Subsystem or line item in this summary table

Name of Bidder:		
Authorized Signature of Bidder:		

Addendum to “Clause 3.5.5 Financial Capabilities under Section VII –Sample Forms”
(Page-281)

3.5.5 Financial Capabilities

Name of Bidder or partner of a Joint Venture
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Bidders, Prime Bidder or Partner in charge in case of Joint Venture, shall provide financial information to demonstrate that they meet the requirements stated in the BDS for ITB Clause 6.1 (a). Each Bidder or Prime Bidder/Partner in Charge of a Joint Venture shall complete this form. If necessary, separate sheets shall be used to provide complete banker information. A copy of the audited balance sheets shall be attached.

Autonomous subdivisions of parent conglomerate businesses shall submit financial information related only to the particular activities of the subdivision.

Banker	Name of banker		
	Address of banker		
	Telephone	Contact name and title	
	Fax	Telex	

Summarize actual assets and liabilities in U.S. dollar equivalent (at the rates of exchange current at the end of each year) for the previous five calendar years. Based upon known commitments, summarize projected assets and liabilities in U.S. dollar equivalent for the next two calendar years, unless the withholding of such information by stock market listed public companies can be substantiated by the Bidder.

Financial information in US\$ equivalent	Actual: Previous five years					Projected: Next two years	
	5	4	3	2	1	1	2
1. Total assets							
2. Current assets							
3. Total liabilities							
4. Current liabilities							
5. Profits before taxes							
6. Profits after taxes							

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in the BDS for ITB Clause 6.1 (a).

Source of financing	Amount (US\$ equivalent)
1.	
2.	
3.	
4.	

Attach audited financial statements—including, as a minimum, profit and loss account, balance sheet, and explanatory notes—for the period stated in the BDS for ITB Clause 6.1 (a) (for the individual Bidder or Prime Bidder or Partner in charge of a Joint Venture).

If audits are not required by the laws of Bidders' countries of origin, partnerships and firms owned by individuals may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns,