

Schedule of Requirements

1.List of Goods & Delivery Schedule

Maintenance of Mechanical and Electrical equipment for the Official Exams Department for a period of 3 months within the Ministry of Education and Higher Education in Bir Hasan building – Lebanon

No.	Item	Quantity	Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
MT01	Building Fire Alarm System Maintenance	1	Official Exams Dpt – Bir Hasan		
MT02	Ups System Maintenance	1	Official Exams Dpt – Bir Hasan		
MT03	Server Room Maintenance	1	Official Exams Dpt – Bir Hasan		
MT04	FM 200 (90lbs) Data Center Maintenance	1	Official Exams Dpt – Bir Hasan		
MT05	FM 200 (90lbs) Power and UPS Room Maintenance	1	Official Exams Dpt – Bir Hasan		
MT06	Precision A/C for Data Center Maintenance	2	Official Exams Dpt – Bir Hasan		

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Official Exams Department – Bir Hasan, Beirut, Lebanon, Official Exams Centers across Lebanon*

2. TECHNICAL OFFER

- The selected bidder will need to provide a quarterly preventive maintenance onsite on all equipment in this BID and generate a report showing all the recommended tasks to optimize the systems and correct any anomalies. These recommendations shall be executed by the bidder upon the approval of the MEHE ICT Team for the duration of the contract.
- The selected bidder should perform a quarterly report on all the calls and activities conducted on MEHE Systems for the duration of the contract.
- The support and maintenance duration should be 3 months, 24/7 including public holidays and weekends. Support must be onsite with spare parts replacement on hand when needed. Moreover, the bidder must share a 24/7 hotline telephone number for support issues. The repair time objective must not exceed 6Hrs after the call is made.
- Software upgrades where applicable must be included in the BIDyear

3. TECHNICAL SPECIFICATIONS SHEETS

Building Fire Alarm System Maintenance – MT01

Required Maintenance Items	Quantity	Check if available	Comments
Context - Fire Panel Addressable 4 Zone Loop	1		
Context - Addressable Smoke Detector	153		
Context - Addressable Break Glass	34		
Context - Addressable Sounder with Flash	44		

UPS System Maintenance – MT02

Required Maintenance Items	Quantity	Check if available	Comments
Eaton 93E200K 200KVA with 44 x Yuasa SWL2500 on a steel rack to provide 15 minutes autonomy on 180 Ampere load on each phase	1		
Eaton 93E120K 120KVA with 36 x Yuasa SWL2500 on a steel rack to provide 26 minutes autonomy on 100 Ampere load on each phase	1		

Server Room Maintenance – MT03

Required Maintenance Items	Quantity	Check if available	Comments
Panel Boards	1		
Access Control: Nordson 3 function access control ◆Fingerprint capacity: 1000 ◆Card capacity: 1000 ◆Storage capacity: 100000 ◆Display: 2.4inch HD LCD screen ◆Scanner: High precision total reflection optic scanner ◆Effective collecting area: 16*16mm ◆Recognition speed: ≤0.6s ◆FAR: ≤0.0001% ◆FRR: ≤0.01% ◆Communication ways: U disk, USB, RS232/485 & TCP/IP ◆Recognition ways: 1:N 1:1 ◆Language: Chinese (Simplified / traditional), English, Korean ◆Alarm Function: Tamper alarm ◆Door open button: Normal button and wireless remote control ◆Working voltage: 12V/1A ◆Size: 180*86*49mm. NORDSON made in Taiwan fabricated in taiwan P:n FR-F7.	1		
Environmental Control: <ul style="list-style-type: none"> control panel Interseptor pro 8 port . JACARTA Made in england and Fabricated in england P/n: ISPROEU02 . 	1		

<ul style="list-style-type: none"> • Interseptor smoke detector 18 meters interface ISPBCN18EU . JACARTA Made in england and Fabricated in england P/n: ISSD18EU . • Temperature & Humidity Sensor . JACARTA Made in england and Fabricated in england P/n:ISPROEU02 . • Interseptor15m water detector 10m interface . JACARTA Made in england and Fabricated in england P/n: IS15WD10US • JACARTA interceptor pro alarm beacon 18m interface cable . JACARTA Made in england and Fabricated in england P/n: ISPBCN18EU • Surface Mounting Brackets for NetBotz Room Monitor Appliance 			
Infrastructure	1		

FM 200 (90lbs) for Data Center Maintenance – MT04

Required Maintenance Items	Quantity	Check if available	Comments
90lbs Container Assembly	1		
Impulse Valve Operator (IVO) Kit	1		
FM-200 Factory Filled and Pressurized (75 lbs.)	1		
Engineered Nozzle	2		
SHP PRO Control System	1		
Battery Assembly, 7AH, w/ wiring assembly	2		
Detector	4		
Base 6", 430 ohm, (1,2)	4		
15/75 cd - 3,6,7 Horn/Strobe	1		
6" Fire Bell	1		
Abort Switch(deadman Type)	1		
Manual Release / Key Reset (Dual Action)	1		
System "Release" Sign / Manual Release –Station	1		
System Abort "Push and Hold" Sign	1		
Caution "Do Not Enter" Sign	1		
CONTEXT Made in england and Fabricated in england .			

FM 200 (90lbs) for Power and UPS Room Maintenance – MT05

Required Maintenance Items	Quantity	Check if available	Comments
90lbs Container Assembly	1		
Impulse Valve Operator (IVO) Kit	1		
FM-200 Factory Filled and Pressurized (75 lbs.)	1		
Engineered Nozzle	2		
SHP PRO Control System	1		
Battery Assembly, 7AH, w/ wiring assembly	2		
Detector	4		
Base 6", 430 ohm, (1,2)	4		
15/75 cd - 3,6,7 Horn/Strobe	1		
6" Fire Bell	1		
Abort Switch(deadman Type)	1		
Manual Release / Key Reset (Dual Action)	1		
System "Release" Sign / Manual Release –Station	1		
System Abort "Push and Hold" Sign	1		
Caution "Do Not Enter" Sign	1		
CONTEXT Made in england and Fabricated in england .			

Precision A/C for Data Center Maintenance – MT06

Required Maintenance Items	Quantity	Check if available	Comments
<ul style="list-style-type: none">• GREE PRECISION AC.• 3 Ton Precision Air Conditioning Direct expansion air cooled units - Downflow - Centrifugal Fans Cooling capacity:12,7kW - 400V/3+N/50Hz• Basic Unit Software language:B - English• Air flow configuration:1 - Suction from the front• Microprocessor control: A - mP40+User Terminal• Refrigerant / Thermostatic valve: D - R410A+electronic expansion valve• Version: D - Cooling and humidification• Accessories: 2 - Standard humidificator• Electrical heating: A - No electrical heating• Heating: 1 - None• Air Filters: C - EU4 filter• Condenser Accessories: 1 - None• Air accessories: A - None• Electrical Accessories: 1 - None• External panels : D - RAL9003 cl.2 colour external panels• Packaging: 2 - Wooden case packing• Specific Request: A - Standard . MADE IN SPAIN.	2		

Schedule of Requirements

1.List of Goods & Delivery Schedule

WAN Router Upgrade and IP Phones for the Ministry of Education and Higher Education for a duration of 3 months with default warranty period of one year– Lebanon

No.	Item	Quantity	Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
VC01	Cisco Phone 8865	2	Official Exams Dpt – Bir Hasan		
VC02	Cisco Phone 8811	25	Official Exams Dpt – Bir Hasan		
VC03	WAN Router Upgrade	2	Official Exams Dpt – Bir Hasan		

Place of delivery: As indicated in the Schedule of Requirement for each Item

Ministry of Education and Higher Education (MEHE) –Beirut, Lebanon

TECHNICAL SPECIFICATIONS SHEETS

Cisco Phone 8865 – VC01

Product Number	Product Description	Qty	Comment
CP-8865-K9=	Cisco IP Phone 8865	2	
CON-SNT-CP8865KP	SNTC-8X5XNBD Cisco IP Phone 8865	2	
A-FLEX-NUPL-P	NU On-Premises Calling Professional	2	

Cisco Phone 8811 – VC02

Product Number	Product Description	Qty	Comment
CP-8811-K9=	Cisco IP Phone 8811	25	
CON-SNT-CP8811K9	SNTC-8X5XNBD Cisco IP Phone 8811 Series	25	
A-FLEX-P-ENH	Enhanced Smart License (1)	25	

WAN Router Upgrade – VC03

Product Number	Product Description	Qty	Comment
UC License			
SL-44-UC-K9=	Unified Communication PAK for Cisco ISR 4400 Series	2	
Analogue Interfaces			
NIM-4FXO=)	4-port Network Interface Module - FXO (Universal	2	
NIM-2FXO=	2-port Network Interface Module - FXO (Universal)	2	
PVDM4-32=	32-channel DSP module	2	

Provision of Network and Connectivity for the Official Exam
Department of the Ministry of Education and Higher
Education - Lebanon

1.List of Goods & Delivery Schedule

LOT 2: Provision and Installation of Wireless Connectivity for the Ministry of Education and Higher Education for a duration of 3 months with default warranty period of one year- Exam Department – Lebanon

Wireless					
Item	Item Name	Qty	Final Destination	Delivery date Earliest/Latest (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
WL001	Access Points	40	Exams Building-Bir Hasan		

2. Technical Specifications Sheets

Access Points – WL001

Required Items	Quantity	Check if available	Comments
<p>High performance 802.11 AC Wave 2 with 2x2 MU-MIMO Concurrent Dual-band, Data rate of up to 1.167Gbps, support flexible hybrid management, radio resource management (RRM) capabilities allow network managers to monitor and optimize their wireless LAN environment.</p> <p>10/100/1000 BASE-T Ethernet uplink Port supports PoE and 1 Console Port.</p> <p>Maximum Clients per AP should be at least 150.</p> <p>1 year repair and replacement warranty is required.</p> <p>The supplier should be responsible for providing a turnkey solution, encompassing both the installation and configuration of the system or product.</p> <p>Duration: 3 months.</p>	1		

توريد خدمات ISP عبر تقنية ال Microwave وزارة التربية والتعليم العالي

متطلبات التوريد

الكمية	رقم البند	أسماء السلع و/أو الخدمات المتصلة بها	المعايير والمواصفات الفنية
1	ML01	Microwave Link MEHE HQ	<p>*Wireless Ethernet Layer 3 over MPLS</p> <p>*VPN Over 3G/4G as a backup Solution to ensure connectivity in case the Wireless connectivity is down.</p> <p>*Managed CPE Service providing point-to-point VPN between all sites.</p> <p>Bank Width required for the above: <u>30 Mbps - 30 Mbps</u></p> <p>All the equipment needed to install the solution must be provided by the bidder for a period of minimum 2 months during the exams period and until the results of the 2nd round have been published.</p> <p>During the second session, some sites might be shut down so their monthly cost should be subtracted from the total cost. All labor and material needed for the installation, setup and configuration of the solution should be accounted for within the proposal.</p> <p>The bidder must provide VPN configuration and integration of the managed routers with the sites internal network</p> <p>The support of the solution during this period shall be instant and in case of any emergency, the maximum allowed time for a problem to be resolved is 2 hours after reporting the issue.</p> <p>Duration: 3 months.</p>

المعايير والمواصفات الفنية	أسماء السلع و/أو الخدمات المتصلة بها	الكمية	رقم البند
<p>* Wireless Ethernet Layer 3 over MPLS</p> <p>* VPN Over 3G/4G as a backup Solution to ensure connectivity in case the Wireless connectivity is down.</p> <p>* Managed CPE Service providing point-to-point VPN between all sites.</p> <p>Bank Width required for the above: <u>15 Mbps -15 Mbps</u></p> <p>All the equipment needed to install the solution must be provided by the bidder for a period of minimum 2 months during the exams period and until the results of the 2nd round have been published.</p> <p>During the second session, some sites might be shut down so their monthly cost should be subtracted from the total cost. All labor and material needed for the installation, setup and configuration of the solution should be accounted for within the proposal.</p> <p>The bidder must provide VPN configuration and integration of the managed routers with the sites internal network</p> <p>The support of the solution during this period shall be instant and in case of any emergency, the maximum allowed time for a problem to be resolved is 2 hours after reporting the issue.</p> <p>Duration: 3 months.</p>	<p>Microwave Link</p> <p>Official Exams</p> <p>Department</p>	1	ML02

المعايير والمواصفات الفنية	أسماء السلع و/أو الخدمات المتصلة بها	الكمية	رقم البند
<p>* Wireless Ethernet Layer 3 over MPLS</p> <p>* VPN Over 3G/4G as a backup Solution to ensure connectivity in case the Wireless connectivity is down</p> <p>* Managed CPE Service providing point-to-point VPN between all sites</p> <p>Bank Width required for the above: <u>6 Mbps - 6 Mbps</u></p> <p>All the equipment needed to install the solution must be provided by the bidder for a period of minimum 2 months during the exams period and until the results of the 2nd round have been published.</p> <p>During the second session, some sites might be shut down so their monthly cost should be subtracted from the total cost. All labor and material needed for the installation, setup and configuration of the solution should be accounted for within the proposal.</p> <p>The bidder must provide VPN configuration and integration of the managed routers with the sites internal network .The support of the solution during this period shall be instant and in case of any emergency, the maximum allowed time for a problem to be resolved is 2 hours after reporting the issue. The list of official exams correction centers is found in annex I.</p> <p>Duration: 3 months.</p>	<p>Microwave Link</p> <p>Official Exams</p> <p>Centers</p>	9	ML03

لائحة باسماء وعناوين مراكز التصحيح

اسم المركز	العنوان
دائرة الإمتحانات الرسمية	يئر حسن - بيروت
ثانوية الدكتور نزيه البزري الرسمية	صيدا
المدرسة العمانية النموذجية	صيدا
متوسطة قاع الريم - الرسمية المختلطة	قاع الريم - زحلة
ثانوية سابا زريق الرسمية للبنين	طرابلس
ثانوية اندره نحاس الرسمية-للبنات الميناء	طرابلس
عدنان زكي درويش الرسمية للبنين	طرابلس
دار المعلمين	جونية
متوسطة دورس الرسمية	بعلبك الهرمل
مبنى وزارة التربية	الاونيسكو

Schedule of Requirements

1.List of Goods & Delivery Schedule

Monitoring Screens for the Official Exams Department for the Ministry of Education and Higher Education in Ministry Building and Bir Hasan site main building for a duration of 3 months with default warranty period of one year– Lebanon

No.	Item	Quantity	Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
MS01	55” Monitoring Screen	1	Official Exams Dpt – Ministry Building		
MS02	65” Wall Screen	1	Official Exams Dpt – Bir Hasan		

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Official Exams Department – Bir Hasan, Beirut, Lebanon, Official Exams Centers across Lebanon*

2. TECHNICAL SPECIFICATIONS SHEETS

55” Monitoring Screen – MS01

Required Maintenance Items	Quantity	Check if available	Comments
55 inch Screen 4K UHD resolution plus Direct-lit LED technology	1		

65” Wall Screen Maintenance – MS02

Required Maintenance Items	Quantity	Check if available	Comments
User- Video-Wall 65” Samsung DID Screen (Super Narrow Bezel with 500 Nits Led Backlight)	1		

Annex I

Schedule of Requirements

**The provision of Printers and Photocopiers for the Ministry of Education
and Higher Education – TVET - Lebanon**

No.	Item	Quantity	Final Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
TVT01	B/W Laser Printer	5	TVET Quarter		
TVT02	Color LaserJet Printer	3	TVET Quarter		
TVT03	Color MFP Copier	2	TVET Quarter		
TVT04	B/W MFP Copier	3	TVET Quarter		

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Beirut, Lebanon.*

Annex II
PRICE SCHEDULE

Item	Quantity	Country of Origin	Unit Price (Excluding VAT)	Total Item Price (Excluding VAT)
B/W Laser Printer	5			
Color Laserjet Printer	3			
Color MFP Copier	2			
B/W MFP Copier	3			
Delivery and installation of the above items and integration with the existing equipment on the place of delivery.				
GRAND TOTAL EXCLUDING VAT				
TOTAL QUOTATION PRICE IN WORDS: <hr/>				

ANNEX III
TECHNICAL SPECIFICATIONS SHEETS

B/W Laser Printer – TVT01

Brand name & Model Number:			
Country of Origin: Quantity: 5			
Item's Features	Minimum Technical Requirements	Check if available	Remarks
Technology	Laser		
Media sizes and types	A4, lettre, envelopes		
Speed	38 ppm		
Resolution	1200 x 1200 dpi		
Installed Memory	256 MB		
Input Capacity	250 sheets		
Output Capacity	150 sheets		
Interfaces	1 Ethernet 10/100/1000 Mbps , 1 Hi- speed USB2.0		
Duplex	Required		
Operating System	Windows 10, 8, 7		
Languages	PCL 6, PCL 5		
Duty Cycle	Up to 80,000 Pages A4		
Cartridges	3 Extra Cartridges		
Warranty and Support	Minimum 3 years		

Color LaserJet Printer - TVT02

Brand name & Model Number:			
Country of Origin: Quantity: 3			
Item's Features	Minimum Technical Requirements	Check if available	Remarks
Technology	Laser color C/M/Y/K		
Media sizes and types	A4, lettre, envelopes		
Speed	Up to 40ppm Black and Color		
Resolution	UP to 1200 x 1200 dpi		
Installed Memory	1024 MB		
Input Capacity	550 sheets		
Output Capacity	250 sheets		
Interfaces	1 Ethernet 10/100/1000 Mbps , 1 Hi- speed USB2.0		
Duplex	Required		
Operating System	Windows 10, 8, 7		
Languages	PCL 6, PCL 5		
Duty Cycle	Up to 80,000 Pages		
Cartridges	2 extra sets(Black and multi-color)		
Warranty and Support	Minimum 3 years		

Color MFP Copier - TVT03

Brand name & Model Number:	
Country of Origin: Quantity: 2	
Minimum required specifications	
<u>Coloured MFP Copier</u>	
Launching Date	2016 or newer
Print mode	Laser Color C/M/Y/K
Maximum original size	A3 from Feeders, A3 Wide Bypass (Maximum)
Copy size (maximum)	A3 (Maximum)
Warming Time	3 Minutes (Maximum)
Paper Management	
Paper supply	3500 Sheets from one drawer or more
Paper Weight	from drawer single & duplex mode from 60 g/m2 to 256g/m2
Output Paper Capacity	Up to 400 Sheets
Stacking feeder (bypass)	At least 100 sheets, Paper weight up to 250g/m2
Reverser Document Feeder	At least 100 sheets (RDF)
Memory	
Memory size	At least 512 MB(Copier) 1GB (Printer)
Hard Disk Drive	80 GB Internal
Interfaces	
Network	yes
Interfaces	Ethernet 10/100/1000 Base-T, USB2.0
Use as copier	
copy speed (Black/Color)	At least A4: 50/50ppm, A3: 21/21ppm

Resolution	600 X 600 dpi / 1200 X 1200 dpi
Zoom (minimum)	25 % from original glass, RDF
Zoom (maximum)	400 % from original glass, RDF
Duplex Unit	yes
Use as printer (network Printing)	
print speed (Black/Color)	At least A4: 50/50ppm, A3: 21/21ppm
Resolution	Equivalent to 600 X 600 dpi
Duplex Printing	yes
Page Description language	PCL 6 , post Script 3
Supported operating systems	Windows XP/7/8.1/10 (x32 /x64) Windows server 2003/2008/2012, Mac OS 9 .x, Linux, Unix, Citrix
Use as scanner (network colored scanning)	
Mono/ colour Scan function	yes
Scan Mode	Scan to e-mail, FTP,SMB, USB
Resolution (Mono, Color)	600 X 600 dpi
Finisher	
Capacity	3000 sheets
Stapling	50 sheets
Other	
3 Additional genuine extra toner for 100,000 prints @ 5% coverage must be delivered in addition to the starter toner for each MFP, (to mention the quantity to be delivered along with each MFP based on the lifetime of the toner).	
Power supply	220 to 240 V, 50 Hz
Warranty and Support for 3 years	

B/W MFP Copier - TVT04

Brand name & Model Number:	
Country of Origin: Quantity: 3	
General specification	
<u>Black & White MFP Copier</u>	
Launching Date	2016 or newer
Power Supply	220 to 240V/ 50HZ
Technology Type	Digital Laser / Mono
Max. Original size	A3
Copy size	Up to A3
Copy Speed (A4)	55 Copy per Minutes Minimum
Copy Preselector (Multiple Code)	Up to 999
Zoom range platen	25-400%
Paper Supply	1800 sheets from internal trays minimum from one drawer or more
Manuel Bypass	Multi sheet, up to 100 sheets as a minimum
Paper weight	55-300g/m2
Automatic Reverse Feeder	Capacity 100 sheets as a minimum
Duplex Module	Automatic Duplex from one or two sided original
Memory	3 GB Minimum
Hard Disk Drive	320GB Internal Minimum
Printing/ Scan Resolution	600*600 dpi
Interface	USB2.0, 10Base-T / 100Base-TX / 1000 Base-T
Wireless Interface	IEEE802.11n/g/b Optional

Printer/ Scan	Network, 10/100/1000 Base-T
Finisher	Up to 1000 sheets with 50 sheets stapling capacity
3 additional toner must be delivered in addition to the starter toner for each MFP	
Warranty and Support for 3 years	

Annex I

Schedule of Requirements

**The provision of UPS for the Ministry of Education and Higher
Education and TVET - Lebanon**

No.	Item	Quantity	Final Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
UPS01	External Batteries for 10 KVA UPS	30	TVET Head Quarter		
UPS02	UPS Backup Batteries 7.0AH	300	MEHE Head Quarter		
UPS02	UPS Backup Batteries 40AH	30	TVET Head Quarter		

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Beirut, Lebanon.*

Annex II

PRICE SCHEDULE

Item	Quantity	Country of Origin	Unit Price (Excluding VAT)	Total Item Price (Excluding VAT)
External Batteries for 10 KVA UPS	30			
UPS Backup Batteries 7AH	330			
Delivery and installation of the above items and integration with the existing equipment on the place of delivery.				
GRAND TOTAL EXCLUDING VAT				
TOTAL QUOTATION PRICE IN WORDS: <hr/>				

ANNEX III
TECHNICAL SPECIFICATIONS SHEETS

External Batteries for 10 KVA UPS – UPS01

Brand name & Model Number:		
Country of Origin: Quantity: 30		
Minimum Technical Requirements	Check if available	Remarks
LEAD ACID Battery 12 V 40 AH		

UPS Backup Batteries 7AH – UPS02

Brand name & Model Number:		
Country of Origin: Quantity: 330		
Minimum Technical Requirements	Check if available	Remarks
LEAD ACID Battery 12 V 7.0 AH		

Schedule of Requirements

1.List of Goods & Delivery Schedule

The provision, installation and configuration of a Video Central Management System for the Ministry of Education and Higher Education for a duration of 3 months– Lebanon

No.	Item	Quantity	Final Destination	Delivery date (Number of days from Contract Signature)	
				Earliest Delivery Date	Latest Delivery Date
VMS01	Video Central Management System	1	MEHE Head Quarter		

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Beirut, Lebanon.*

ANNEX IV - TECHNICAL REQUIREMENTS

1.0 Background

2.0 Components

MEHE is seeking to acquire a flexible, scalable, high reliable and powerful video central management system. With client-server Architecture that integrates with surveillance systems previously acquired by MEHE. This solution should provide the central management, information sharing, convenient connection, and multi-service cooperation between the exam centers as described in the "Camera Distribution" ANNEX II. It can provide user permission management, device management, alarm management, video wall, map and can support for the future other advanced features such as People Counting, Business Analysis, Face Recognition and Violation. The technical Specifications can be found in the "Technical Specs" ANNEX I. The bidder is responsible for implementing the solution at MEHE Head quarter and configure all remote NVRs if deemed necessary to monitor it from the central system.

3.0 Project Management Methodology

This section contains the methodology that will be used for the management and implementation of this project.

The requirements of this methodology are stated below as follows:

1. Project team (section 3.1);
2. Acceptance (section 3.2).

3.1 Project Team

A team, composed of MEHE, UNICEF and supplier staff members, is required for the successful and timely implementation of this project. Its project-related responsibilities are the:

- a) monitoring and evaluation of its progress;
- b) approval of changes;
- c) resolution of conflicts;
- d) mobilization and initiation of acceptance procedure;
- e) clearance of payment requests.

It will include the following members:

1. MEHE Project Coordinator
2. UNICEF Project Coordinator
3. Supplier Project Manager

3.1.1 MEHE and UNICEF Project Coordinators

His/her project-related responsibilities are the following:

- a) managing the project as a whole with special emphasis on implementation plan and schedule;
- b) approving all plans submitted by the Supplier Project Manager;

- c) monitoring and controlling the progress of the project;
- d) recommending solutions in case of problems;
- e) clearing project deliverables;
- f) monitoring, evaluating and documenting project conclusions.
- g) following up on Purchase Order implementation;

3.1.2 Supplier Project Manager

His/her project-related responsibilities are the following:

- a) managing the project as a whole, which includes:
 - managing and monitoring the project's activity;
 - ensuring that deliverables are satisfactorily completed and accepted by MEHE and UNICEF;
 - documenting minutes of meetings;
 - monitoring, evaluating and documenting project conclusions.
 - managing supplier resources, which includes: ensuring that control processes are in place;
- b) coordinating with the purchaser (MEHE and UNICEF), which includes:
 - preparing and submitting regular progress/status reports to the Project Coordinator;
 - notifying MEHE and UNICEF in writing, upon the successful completion of each milestone.

3.2 Acceptance

3.2.1 Provisional Acceptance

MEHE and UNICEF will designate an acceptance committee who will validate each item in accordance with the specifications set in the contract.

The acceptance committee will issue a provisional acceptance report within a month of receiving:

- a) notification from the Supplier that the hardware is ready for acceptance;
- b) detailed delivery orders that are signed by the MEHE and UNICEF;
- c) an electronic inventory of project deliverables.

3.2.2 Final Acceptance

A Final Acceptance report shall be issued after 3 months from the date of the provisional acceptance.

3.3 Technical Offer

As part of his technical offer, the bidder should include the documents listed below. Failure to do so will affect the evaluation of his quotation and might lead to the rejection of the quotation:

- Compliance with Technical Specifications: The bidder should complete the technical specification sheets of the required items, attached to this annex. In completing the attached Technical Specifications, the bidder should indicate for each item the brand name and the country of origin. The bidder should also put a

check mark next to each minimum requirement in the sheet in case it is available in the proposed item. Technical specifications should be highlighted **on an attached catalogue** for the offered items. The bidder should attach all supporting documents that describe the technical requirements of the requested items with highlights on the requested features.

- A description of the information, documents, staff assistance, facilities or other resources required from MEHE and UNICEF to complete the work,
- A plan describing in details the support terms and maintenance plan offered for MEHE and UNICEF (onsite interventions, response time, etc.) during the warranty period of one year.
- Bidder should have a partnership for more than two years with the laptop manufacturer involved in his proposal.
- The bidder should have a dedicated Support team. In addition, The bidder should provide vendor certified maintenance contracts for the laptops.
- Spare part list to be detailed with the ability for the Ministry of Education and Higher Education representative to inspect without prior notice.
- The bidder should submit a Manufacturer authorization letter to supply and install the Laptops for the Ministry of Education and Higher Education and UNICEF is required.
- The bidder will be responsible for all required installation, operation and acceptance testing of delivered equipment.
 - The bidder should provide an implementation plan that includes detailed schedule of events, duration and phases which shall meet the deadlines set in this bidding document.
 - A description of the information, documents, staff assistance, facilities or other resources required from MEHE and UNICEF to complete the work,
 - A plan describing in detail the support terms offered for MEHE and UNICEF (onsite interventions, response time, etc.) during the warranty period of one year.

TECHNICAL SPECIFICATIONS SHEETS ANNEX I

Video Central Management System – VMS01

Indicator classification	Indicator item	Minimum Technical Requirements	Check if available	Datasheet Ref/Page #
OS	OS	Windows OS		
Client	Mobile Client	Android App		
		Iphone IOS app		
	PC Client	Windows 10		
GUI	Language	Full English and Arabic support		
Function	Device and channel support	5000 devices/20000 channel		
	Simultaneous sessions	200		
	Availability	Support hot standby		
	Database backup	Manual and automatic backup		
	Device Management	Support device auto registration		
		Support modify device IP address and password		
		Enable re-assignment of subordinate device resources		
	User Management	Enable personnel information import		
		Support domain user login		
		Multiple user roles based on location, administrative access...		
		Support video recording		
	Client	Support multi-screen display (each TAB page can be opened separately)		
	Live view	Support tour		
		Quick screenshot, continuous screenshot		
		Support view function		
	Device	Support for displaying devices by IP address, Location or other user defined criteria		
	Video playback download	Enable smart video search		
		Support NVR recording schedule up to 4 schedule remotely from the central administration console.		
		Support enable/disable of NVR recording remotely from the central administration console.		
		Support multi download		
	Video Wall	Support tour		
		Support box		
	ONVIF	Support ONVIF protocol		
	NTP	Act as time server for all the NVRs		
Device Management	Supported Devices	must support the DAHUA NVRs: DHI-NVR4216-16P-4KS2, DHI-NVR5432-4KS2		
Deployment	Implementation	The bidder is responsible for implementing the solution at MEHE Head quarter and configure all remote NVRs if deemed necessary to monitor them from the central system.		

CAMERA DISTRIBUTION ANNEX II

REO	Final Number of Centers	Final Number of Cam
DAHUA Based NVR		
Bekaa	24	322
ML	102	1553
Beirut	20	351
Nabatieh	21	274
South Original	29	487
North	63	888
Subtotal	259	3875
Tayendi Based NVR		
Baalbak	23	198
Subtotal	282	4073
Other brand Based NVR		
	4	60
Total	286	4133

Schedule of Requirements

Leasing of MEHE ID cards printer for the Ministry of Education and Higher Education

Riso Printers Leasing with ink to print approximately 13000 A4 Pages each with 10 cards.

1. A printer is required at the MEHE premises for three months with the following technical specifications:
 1. Type: Production color copier equipped with Fiery Printing capabilities.
 2. Paper: Must be compatible with 300 g perforated A4 Glossy Paper.
 3. Speed: Minimum of 75 pages per minute for color printing on the specified paper type.
 4. Color: 4-color printing (Cyan, Magenta, Yellow, and Black).
 5. Print Volume: 13,000 pages.
 6. Ink: The supplier should provide enough ink to accommodate the entire print volume.
 7. Transportation: The supplier is responsible for delivering the copier to the MEHE HQ and retrieving it after the rental period.
 8. Support and Maintenance: The supplier must provide 24/7 support and maintenance services during the distribution of student candidates and proctors for the exam centers.
 9. Leasing Period: 3 months.

Place of delivery: As indicated in the Schedule of Requirement for each Item

- *Ministry of Education and Higher Education (MEHE), Beirut, Lebanon.*

Schedule of Requirements

Correction Center Printers Maintenance for the Ministry of Education and Higher Education

Technical specifications for the maintenance of printers that will be distributed to the correction centers:

The table below describe the printers that need to be maintained:

Machine Brand:	Model:	Printers in need of parts
KYOCERA	P4040DN	5

The table below outlines the necessary maintenance and spare part replacements for the printers in question:

Part Number	Description	Qty
302P793071	MAIN CHARGE MC-7300	4
302P793065	DRUM KIT DK-7300	1
LABOR	LABOUR CHARGE (Checkup on machines & Replacing Parts)	5

Place of delivery: As indicated in the Schedule of Requirement for each Item

- Ministry of Education and Higher Education (MEHE), Beirut, Lebanon.