

## **MINIUTES OF TECHNICAL EVALUATION COMMITTEE MEETING REGARDING PROPOSED SOLUTION FOR CPEIC AUTOMATION & INFORMATION MANAGEMENT SYSTEM**

A Technical Evaluation Committee meeting regarding proposed solution for CPEIC Automation & Information Management System was held on 07.01.2016 at 01:00 pm in the library of this institution to evaluate and recommend the technical proposals of the firms.

2. Members of Technical Evaluation Committee of the institute attended the meeting. The Technical points raised by Dr. Qaisar Rasool Azeemi, Prof. Dr. Aman-Ullah Khan, and the representatives of various departments of CPEIC Multan, which were discussed in presentation / demonstration session on 31.10.2015, points / question (which was missing or ambiguous in the technical proposal) received from each firm and the report submitted by Mr. Sarfraz Ahamd Malik, Computer System Analyst of his visit to Sharif Medical City Lahore & PNS Rahat Karachi, were also considered in evaluating the technical proposals.

3. The Technical Evaluation Committee rejected the technical proposals of “M/S Construct, Lahore”, “M/S GM International, Lahore” and “M/S SKMCH&RC, Lahore” on the following grounds.

### ***M/S Construct, Lahore:***

- a) M/S Construct has not implemented any mega project similar in nature which shows immaturity in experience.
- b) Claim of providing IEEE/ISO specification for documentation cannot be justified as the firm is not an ISO certified.
- c) Lack of business experience especially in software of similar nature and hardware in general.

- d) M/S Construct offered MySQL as back-end support. MySQL is not reliable for larger database. It tends to be limited in areas including data warehousing, fault tolerance and performance diagnosis.
- e) Proposed solution does not support SNOMED-CT coding which is mandatory for lab. test coding.
- f) The proposed solution implementation time is about 18 months.

***M/S GM International, Lahore:***

- a) M/S GM International has not implemented any mega project similar in nature which shows immaturity in experience.
- b) Claim of providing IEEE/ISO specification for documentation cannot be justified as the firm is not an ISO certified.
- c) No. of business experience in Software & Hardware is not defined, shows no or lack of experience in the field.
- d) Firm claimed that it implemented complete solution at RIC, Rawalpindi. But in actual, HIMS is not implemented there except registration of patients.
- e) The administrator, Doctors Hospital & Medical Center has denied the claim of M/S GM International, Lahore that it implemented HIMS solution there. It means M/S GM International deceived the institution.

***M/S SKMCH&RC, Lahore:***

- a) Proposed solution is not integrated with MS Office to show / present information to the stakeholders.
- b) Proposed solution does not support LOINC support which is mandatory for Lab. Test Coding.
- c) Web Portal Service is not available for both static & dynamic information, which is pre-requisite for the proposed solution.
- d) SKMCH&RC does not deal in Hardware. It only deals with HIMS solution. (No Hardware support)

- e) SKMCH&RC claimed that it will implement the HIMS solution on as-is basis within 6 months. The requirement analysis for a specialized cardiac teaching hospital is quite different than that of specialized cancer hospital. If a customized solution for a cardiac institution is required, it will be implemented within a period of 1 ½ years from July 2016 to Dec 2017.

4. The Technical Evaluation Committee recommended the technical proposals of “M/S Bahria Enterprises System & Technologies (BEST), Karachi” and “M/S MegaPlus, Lahore” on the following grounds.

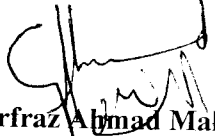
***M/S BEST, Karachi:***


- a) M/S BEST will provide complete HIMS solution as desired in the RFP bidding documents within a period of 12 months. The TEC recommends that the implementation time may be negotiated with the firm. If the firm disagree to provide the proposed HIMS solution within a stipulated time period of 6 months, its technical proposal may be rejected.
- b) M/S BEST has 06 years of business experience in hardware and software.
- c) M/S BEST implemented a comprehensive HIMS solution at PNS RAHAT Karachi, which is 200 bedded hospital at Karachi.
- d) The baseline of customized HIMS is owned by M/S BEST.
- e) Implemented HIMS at PNS Rahat is role based.
- f) No PACS solution is implemented at PNS Rahat by M/S BEST, but M/S BEST proposed third party PACS solution by Paxeramed.


***M/S MegaPlus, Lahore:***


- a) M/S MegaPlus will provide complete HIMS solution as desired in the RFP bidding documents within a period of 06 months.


- b) The proposed solution is web based. It can be accessed via the cloud in any browser enabled device (Desktop, Laptop, Android Mobile and handheld devices etc).
- c) M/S MegaPlus has more than 15 years of business experience in hardware and more than 7 years of software experience.
- d) M/S MegaPlus has provided the online reception user login for patient module to get better exposure of the proposed solution. URL: <http://58.65.184.219:81/smh> User Name: m.akmal and password: abc123!@.
- e) M/S MegaPlus implemented a comprehensive HIMS solution at Sharif Medical City Lahore.
- f) The baseline of customized HIMS is owned by M/S MegaPlus.
- g) Implemented HIMS at Sharif Medical City is role based.
- h) No PACS solution is implemented at Sharif Medical City Lahore by M/S MegaPlus, but M/S MegaPlus proposed third party PACS solution by Paxeramed and Fujifilm.


  
**Sarfraz Ahmad Malik**  
 (Member)  
 Computer System Analyst  
 CPEIC Multan

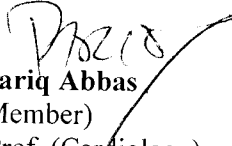
  
**Dr. Muhammad Moeen**  
 (Member)  
 Senior Registrar (Cardiac Surgery)  
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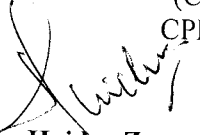
  
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**Dr. Sohail Ahmad**  
 (Member)  
 Assistant Prof. (Anesthesia)  
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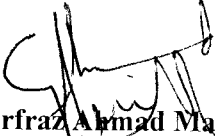
  
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 Associate Prof. (Cardiology)  
 CPEIC Multan


  
**Prof. Dr. Haider Zaman**  
 (Chairman TAC)  
 Chief Cardiac Surgeon  
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## **MINIUTES OF TECHINCAL EVALUATION COMMITTEE MEETING REGARDING PROPOSED SOLUTION FOR CPEIC AUTOMATION & INFORMATION MANAGEMENT SYSTEM**

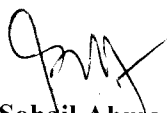
A Technical Evaluation Committee meeting regarding proposed solution for CPEIC Automation & Information Management System was held on 07.12.2015 at 02:30 pm in the library of this institution.


2. Members of Technical Evaluation Committee of the institute attended the meeting. The points / questions (which was missing or ambiguous in the technical proposal) recorded / asked from each firm were examined in detail.
3. Each firm has claimed that it implemented at least one project similar in nature. The Technical Evaluation Committee recommended that the claim of implementing one project similar in nature by each firm may be confirmed from the concerned institution / hospital.
4. M/S MegaPlus, Lahore and M/S Bahria Enterprises System & Technologies, Karachi claimed that they implemented complete solution of HIMS at Sharif Medical City, Lahore and PNS Rahat, Karachi respectively. The Technical Evaluation Committee recommended that Mr. Sarfraz Ahmad Malik, Computer System Analyst may visit Sharif Medical City Lahore and PNS Rahat Karachi to confirm and evaluate the implemented HIMS there.

  
**Sarfraz Ahmad Malik**  
(Member)  
Computer System Analyst  
CPEIC Multan

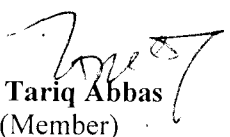
  
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## **MINUTES OF PRESENTATION MEETING REGARDING PROPOSED SOLUTION FOR CPEIC AUTOMATION & INFORMATION MANAGEMENT SYSTEM**

A presentation meeting regarding proposed solution for CPEIC Automation & Information Management System was held on 31.10.2015 at 11:00 am in the auditorium of this institution.

2. Members of Technical Advisory Committee of CPEIC Multan along with the Executive Director, CPEIC Multan, the Medical Superintendent, CPEIC Multan and representatives of all the departments of CPEIC Multan attended the presentation / demonstration. Dr. Qaisar Rasool Azeemi, Teacher Incharge, Department of Computer Science, BZU, Multan and Prof. Dr. Aman-Ullah Khan, Chairman, Department of Computer Science, Air University, Multan Campus, Multan were also present on special request of the institution, in the presentation / demonstration session as a technical member to advise the technical committee of this institute in evaluating project scope, requirement gathering/ analysis, hardware specifications, project design, project implementation & testing etc.

3. Five out of six firms named “BEST, Karachi”, GM International, Lahore”, “Megaplus, Lahore”, “SKMCH&RC, Lahore” and “Construct, Lahore” demonstrated their presentation of their proposed solution while one firm named “CDigital, Islamabad” was absent.

4. Points were recorded during presentation / demonstration and Question / Answer session. The Technical Advisory Committee, CPEIC Multan scrutinized the proposals of all the present firms one by one. It is decided in the meeting that the following points / questions (which was missing or ambiguous in the technical proposal) may be asked to each firm before finalize the tender.

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## CPEIC AUTOMATION & INFORMATION MANAGEMENT SYSTEM

Sr.#	Points / Questions that may be Explained / Answered.
1	What Technology will be used for proposed solution? (Front End / Back End)
2	Is the Proposed Solution require any licenses from third party? If Yes, Please specify with estimated cost.
3	Is the Proposed Solution is Role-Based access? (Y/N), Please explain.
4	Will the Proposed Solution will access data in real time via the Cloud? (Y/N)
5	Is the Proposed Solution support multi databases in multi server architecture in real time? (Y/N)
6	Is the Proposed Solution integrate with Windows and MS Office to share information with Stakeholders? (Y/N)
7	Is the Proposed Solution can be accessed from three client interfaces: Windows / Web / SharePoint?
8	Is the Proposed Solution support Clinical Standards:- <ul style="list-style-type: none"> <li>&gt; ICD-10 Coding (Y/N)</li> <li>&gt; DICOM 3.0 Compliant (Y/N)</li> <li>&gt; LOINC Coding (Y/N)</li> <li>&gt; SNOMED -- CT Coding (Y/N)</li> <li>&gt; HL7 Complaine (Y/N)</li> </ul>
9	Is the PACS solution is proposed by the Firm? (Y/N) if Yes; give detail.
10	Will the Proposed Project Documentation comply with the IEEE/ISO specifications for documentation? (Y/N)
11	What will be the maximum user response time in second over WAN, for the next screen to appear or the existing screen to refresh for submission of data??
12	What will be the maximum user response time in second over LAN, for the next screen to appear or the existing screen to refresh for submission of data?
13	What will be the minimum implementation time required for the Proposed Solution in month(s)?
14	Will the Proposed Solution provide web portal service with both static and dynamic information? (Y/N)
15	Will the Proposed Solution supports e-mail / SMS Alert System? (Y/N)
16	What kinds of end-user (staff) trainings are required (On-Site/Of-Site) for Proposed Solution? Please clearly specify.
17	What Testing Criteria will the Firm adopt for Software Quality Assurance? Also give some detail against the point 3.3 titled "Testing Criteria" in the RFP (Bidding Documents). Page - 16
18	Will the Firm provide 10 years Operation and Maintenance support for the eintire Proposed Solution?
19	Firm's National Tax Number Registration?
20	Firm's Sales Tax Registration?
21	No. of business experience (Hardware) in years?
22	No. of business experience (Software) in years?
23	No. of projects implemented similar in nature (complete solution)? Please specify atleast one. Visit may be scheduled.
24	Any other detail which is not provided in the Technical Proposal.

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## DATA STORAGE ESTIMATE PER MODALITY

(For PACS Server)

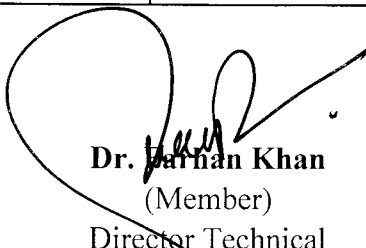
Sr.#	Modality	Data Type	Storage Estimate per Exam	
			Min	Max
1	Cardiac Angiography			
2	Cardiac Angiography with PCI			
3	Hemodynamics			
4	Intervenous Ultrasound			
5	Echo.			
6	Cardiac CT			
7	Cardiac MRI			
8	Computed Radiography			
9	Digital Radiography			
10	Cardiac Gamma Camera			
11	Intra Aortic Baloon Pump			
12	Ultrasound			
13	Central Monitoring System (Cardiac Monitors)			
14	Fluroscopy			
15	Satellite Combination LED Operation Room Light with Integrated Camera			
16	ECG			

  
**Sarfraz Ahmad Malik**  
(Member)

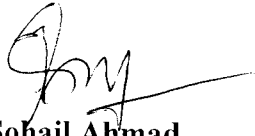
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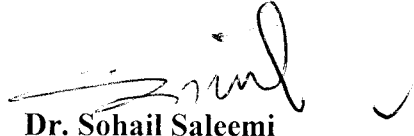
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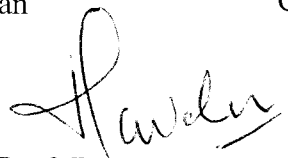
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