



# **JINNAH SINDH MEDICAL UNIVERSITY, KARACHI**

## **BIDDING DOCUMENT FOR ESTABLISHMENT OF DATA CENTER FOR J.S.M.U, KARACHI.**

MAY, 2016

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**Jinnah Sindh Medical University**  
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## LIST OF CONTENTS

<b>PART</b>	<b>DESCRIPTION</b>
Part-I	NOTICE INVITING TENDER
Part-II	INSTRUCTIONS TO BIDDERS
Part-III	GENERAL CONDITIONS OF CONTRACT
Part-IV	BID DATA SHEET
Part-V	SPECIAL CONDITIONS OF CONTRACT
Part-VI	SCHEDULE OF REQUIREMENT
Part-VII	SAMPLE FORMS
Part-VIII	TECHNICAL SPECIFICATION



**JINNAH SINDH MEDICAL UNIVERSITY KARACHI.  
PLANNING & DEVELOPMENT DEPARTMENT**

Ref: JSMU/P.D/NIT/1033

Dated: \_\_\_\_\_

**NOTICE INVITING TENDER**

Bids are invited on Single Stage Two Envelope procedure under sealed covered from **Reputable Firms** registration with G.S.T and Income Tax department having vast experience in Establishment of Data Center FOR J.S.M.U, karachi. as per specifications given in the bid documents.

Sr.#	Name of Work	Earnest Money/ Bid Security	Tender Fee	Completion Period
1	<b>ESTABLISHMENT OF DATA CENTER FOR J.S.M.U, KARACHI.</b>	@ 2% of Bid Amount	Rs. 3000/-	8 to 10 Weeks

<b>Purchasing date</b> From 10-12-2015 till 30-12-2015	<b>Submission date / time</b> 30-12-2015 at 11:00 A.M	<b>Opening Date / Time</b> 30-12-2015 at 11: 30 A.M
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The Specifications are mentioned in the prescribed tender documents along with terms and conditions can be obtained from the office of the **Advisor P&D / Procurement, 3<sup>rd</sup> Floor, JSMU, Karachi** and download from the SPPRA website I.e. [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk) or Jinnah Sindh Medical University website I.e. [www.jsmu.edu.pk](http://www.jsmu.edu.pk) the tender fee **Rs. 3000/- (Rupees Three Thousand) (Non refundable)** to be attached to tender form in the shape of Pay Order / demand draft in favor **Vice Chancellor, Jinnah Sindh Medical University, Karachi.** Tenders along with bid security of 2% sealed in Financial bid envelope separately, should be dropped in **tender box** kept in **Planning & Development Department, JSMU, Karachi.** Before **11:00 A.M on 30<sup>th</sup> December, 2015.** The **Technical Proposals** of the bids shall be opened publically on the same day in the presence of bidders or their nominated representative who wish to attend at **11:30 A.M.** The **Procuring agency may cancel / delete any item or decrease or increase in quantity** as per relevant provisions of SPPRA Rules 2010 (amended 2013).

**Government Notified Blacklisted Firms / Suppliers** shall not be entertained. In case tenders are not opened on the schedule date due to unscheduled holiday or any other reason / reasons, the same shall be opened on the next working day. The other terms and conditions of the tenders however remain unchanged

**Advisor P&D / Procurement**  
Planning & Development Department  
Jinnah Sindh Medical University,

## **Part-II**

### **Instruction to bidders**

#### **Preparation of Bids**

- 1. Scope**
  - 1.1 The Jinnah Sindh Medical University, Karachi intend a turnkey solution for ESTABLISHMENT OF DATA CENTER for JSMU, Karachi through National Competitive Bidding Single Stage Two Envelope Procedure as per SPPRA Rules-2010 (Amended 2013).
- 2. Language of Bid**
  - 2.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the English language.
- 3. Documents Comprising the Bid**
  - 3.1 The bid prepared by the Bidder shall comprise the following components:
    - a) Price Schedule completed in accordance with ITB Clauses 4, 5 and 6.
    - b) bid security furnished in accordance with ITB Clause-9.
- 4. Bid Prices**
  - 4.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract.
  - 4.2 The prices shall be quoted on delivery to consignee's end inclusive of all taxes, stamps, duties, levies, fees and installation and integration charges imposed till the delivery location specified in the schedule of Requirements. No separate payment shall be made of the incidental services.
  - 4.3 Prices quoted by the by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet.
  - 4.4 Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.
- 5. Bid Form**
  - 5.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, and their country of origin, quantity, and prices.
- 6. Bid Currencies**
  - 6.1 Prices Shall be quoted in Pak Rupees.
- 7. Documents Establishing Bidder's**
  - 7.1 The Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

**Eligibility  
and  
Qualification**

- a) that, in the case of a Bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce, the bidder has been duly authorized by the good Manufacture or producer to supply the goods in the Islamic Republic of Pakistan.
- b) that the Bidder has the financial ,technical ,and production capability necessary to perform the contract;
- c) that the Bidders meets the qualification criteria listed in the Bid Data Sheet.

**8. Documents  
Establishing  
Goods'  
Eligibility  
and  
Conformity  
to Bidding  
Documents**

8.1 The documents evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and Data, and shall consist of:

- (a) a detailed description of the essential technical and performance characteristics of the goods;
- (b) the Bidder shall note that standards for workmanship, material ,and equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specification are intended to be descriptive only and not restrictive :till stated otherwise in Technical Specifications or Bid Data Sheet .The Bidder may substitute alternative standards, brand names , and /or catalogue numbers in its bid , provided that demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the in the Technical Specifications

**9. Bid Security**

9.1 The bid security is required to protect the Procuring agency against the risk of Bidder's conduct, which would warrant the security's forfeiture The bid security shall be denominated in the currency of the of the bid:

- a) at the Bidder's option, be in the form of either demand draft/call deposit or an unconditional bank guarantee from a reputable Bank:
- b) be submitted in its original form: copies will not be accepted;
- c) Remain valid for a period of at least 14 days beyond the original validity period of bids, or at least 14 days beyond any extended period of bid validity.

9.2 bid security shall released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.

9.3 The successful Bidder's bid security shall be discharged upon the Bidder signing the contract, and furnishing the performance security.

- 9.4 The bid security may be forfeited:
- a) if a Bidder withdraws its bid during the period of bid validity or
  - b) in the case of a successful Bidder, if the bidder fails:
    - (i) to sign the contract in accordance or
    - (ii) to furnish performance security
10. **Period of Validity of Bids**
- 10.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency. A bid valid for a shorter period shall be rejected by the Procuring agency as non responsive.

- 10.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security shall also be suitable extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required not be required nor permitted to modify its bid.

11. **Format and Signing of Bid**
- 11.1 The Bidder shall prepared an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "**ORIGINAL BID**" and "**COPY OF BID**" as appropriate. In the event of any discrepancy between them, the original shall govern. The interested bidders applying for bids should submit two separate bids envelope for financial proposal and technical proposal. The envelope shall be marked as "Financial Proposal" and "Technical Proposal" in bold and legible to avoid confusion.

- 11.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.

- 11.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.

#### **Submission of Bids**

12. **Sealing and Marking of Bids**
- 12.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "**ORIGINAL BID**" and "**ONE COPY**". The envelopes shall then be sealed in an outer envelope. The inner and outer envelopes shall be addressed to the Procuring agency at the address given in the BDS, and carry statement "**DO NOT OPEN BEFORE 14-06-2016 at 11.30 AM**"

- 12.2 If the outer envelope is not sealed and marked as required, the Procuring agency shall assume no responsibility for the bid's misplacement or premature opening.
- 13. Deadline for Submission of Bids**
- 13.1 Bids must be received by the Procuring agency at the address specified in BDS, not later than the time and date specified in Bid Data Sheet.
- 13.2 The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents, in such case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline.
- 14. Late Bids**
- 14.1 Any bid received by the Procuring agency after the deadline for submission of bids prescribes by the Procuring agency shall be rejected and returned unopened to the Bidder.
- 15. Modification and Withdrawal of Bids**
- 15.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.
- 15.2 No bid may be modified after the deadline for submission of bids.
- 15.3 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security.

### **Opening and Evaluation of Bids**

- 16. Opening of Bids by the Procuring agency**
- 16.1 The Procuring agency shall open all bids in the presence of bidder's representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register/attendance sheet evidencing their attendance.
- 16.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presences or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening.
- 17. Clarification of Bids**
- 17.1 During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

- 18. Preliminary Examination**
- 18.1 The Procuring agency shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 18.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 18.3 Prior to the detailed evaluation, the Procuring agency will determine the substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Procuring agency's determination of a bid's responsiveness is to be based on the contents of the bid itself.
- 18.4 If a bid is not substantially responsive, it will be rejected by the Procuring agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
- 19. Evaluation and Comparison of Bids**
- 19.1 The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive. Initially, only the envelope marked "Technical Proposal" shall be opened. The envelope marked as "Financial Proposal" shall be retained in the custody of the Jinnah Sindh Medical University. The JSMU shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal, which does not conform to the specified requirements. After the evaluation of the technical proposal technically accepted bidders only will be called for financial bids Publicly within the bid validity period. Time, date and venue will be communicated to the technically accepted bidders in advance. The bidders technically not accepted, their financial proposals shall be returned un-opened to the respective bidders.
- 19.2 The Procuring agency's evaluation of a bid will be on delivery to consignee's end inclusive of all taxes, stamps, duties, levies, fees and installation and integration charges imposed till the delivery location and shall exclude any allowance for price adjustment during the period of execution of the contract.



20. **Contacting the procuring agency**
- 20.1 No Bidder shall contact the procuring agency on any matter relating to its bid, from the time of bid opening to the time the announcement of Bid Evaluation Report. If the Bidder wishes to bring additional information to the notice of the procuring agency, it should do so in writing.
- 20.2 Any effort by a Bidder to influence the Procuring agency in its decision on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

**Award of contract**

21. **Post – Qualification**
- 21.1 In the absence of prequalification, the procuring agency may determine to its satisfaction whether that selected Bidder having submitted the lowest evaluation responsive bid is qualified to perform the contract satisfactorily.
- 21.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Claus-7 as well as such other information as the Procuring agency deems necessary and appropriate.
- 21.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to perform satisfactorily.
22. **Award Criteria**
- 22.1 The Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.
23. **Procuring agency's Right to Accept any Bid and to Reject any or All Bids**
- 23.1 Subject to relevant provisions of SPP Rules 2010 (Amended 2013), the Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award.
- 23.2 Pursuant to Rule 45 of SPP Rules 2010 (Amended 2013), Procuring agency shall hoist the evaluation report on Authority's web site, and intimate to all the bidders seven days prior to notify the award of contract.

24. **Notification of Award**
- 24.1 Prior to the expiration of the period of bid validity, the Procuring agency shall notify the successful Bidder in writing, that its bid has been accepted.
- 24.2 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 26, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security.
25. **Signing of Contract**
- 25.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 25.2 Within fourteen (14) days, or any other period specified in BDS, of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.
26. **Performance Security**
- 26.1 Within seven (07) days, or any other period specified in BDS, of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 26.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 25 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.
27. **Corrupt or Fraudulent Practices**
- 27.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made there under:
- (a) **“Corrupt and Fraudulent Practices”** means either one or any combination of the practices given below;
- (i) **“Coercive Practice”** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any

party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;

(ii) **“Collusive Practice”** means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;

(iii) **“Corrupt Practice”** means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;

(iv) **“Fraudulent Practice”** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

b) **“Obstructive Practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

**Part – III**  
**General Conditions of Contract**

**1. Definitions**

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) **“The Contract”** means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) **“The Contract Price”** means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) **“The Goods”** means all of the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Procuring agency under the Contract.
- (d) **“The Services”** means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- (e) **“GCC”** means the General Conditions of Contract contained in this section.
- (f) **“SCC”** means the Special Conditions of Contract.
- (g) **“The Procuring agency”** means the Sindh Public Procurement Regulatory Authority (SPPRA), Government of Sindh.
- (h) **“The Supplier”** means the individual or firm supplying the Goods and Services under this Contract.
- (i) **“SPP Rules 2010”** means the Sindh Public Procurement Rules 2010 (Amended 2013).
- (j) **“Day”** means calendar day.

**2. Standards**

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods’ country of origin. Such

standards shall be the latest issued by the concerned institution.

**3. Patent Rights**

The Supplier shall indemnify the Procuring agency against all third- party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Islamic Republic of Pakistan.

**4. Performance Security**

- 4.1 Within seven (07) days, or any other duration as specified in SCC, of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
- 4.2 The proceeds of the performance security shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 4.3 The performance security shall be denominated in the Pak rupees and shall be an unconditional bank guarantee, pay order, call deposit as, provided in the bidding documents or another form acceptable to the Procuring agency;
- 4.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

**5 Inspections and Tests**

- 5.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 5.2 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.
- 5.4 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Manufacturer.
- 5.5 Nothing in GCC Clause 5 shall in any way release the Supplier from any warranty or other obligations under this Contract.

- 6. Packing** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage.
- 7. Delivery and Documents** Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping/ transportation and/or other documents to be furnished by the Supplier are specified in SCC.
- 8. Insurance** The Goods supplied under the Contract shall be delivered consignee's end under which risk is transferred to the Procuring agency after having been delivered; hence insurance coverage is Supplier's responsibility.
- 9. Transportation** The Supplier is required under the Contract to transport the Goods to a specified place of destination and shall be arranged by the Supplier, and related costs shall be deemed to have been included in the Contract Price.
- 10. Incidental Services**
- 10.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
  - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
  - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
  - (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- 11. Spare Parts**
- 11.1 The Supplier should provide any or all of the notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
- (a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and

- (b) in the event of termination of production of the spare parts:
  - (i) advance notification to the Procuring agency of the pending termination, in sufficient time to permit the Procuring agency to procure needed requirements; and
  - (ii) following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

## **12. Warranty**

- 12.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of desired models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 12.2 This warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract
- 12.3 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring agency may have against the Supplier under the Contract.

## **13. Payment**

- 13.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
- 13.2 The Supplier's request(s) for payment shall be made to the Procuring agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and upon fulfillment of other obligations stipulated in the Contract.
- 13.3 Payments shall be made promptly by the Procuring agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier.
- 13.4 The currency of payment is Pak. Rupees.

## **14. Prices**

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices

quoted by the Supplier in its bid,

**15. Contract Amendments**

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**16. Delays in the Supplier's Performance**

16.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring agency in the Schedule of Requirements.

16.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

16.2 Except as provided under GCC Clause 17 a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages unless an extension of time is agreed upon pursuant to GCC Clause 16.2 without the application of liquidated damages.

**17. Liquidated Damages**

Subject to GCC Clause 20, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 18.

**18. Termination for Default**

18.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 16; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.



- (c) If the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**19. Force Majeure** 19.1 Notwithstanding the provisions of GCC Clauses 16, 17 and 18, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

19.2 For purposes of this clause, “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

19.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**20. Resolution of Disputes** Resolution of dispute shall be through Mechanism for Redressal of Grievances as provided in the rules or through Arbitration Act 1942.

**21. Governing Language** The Contract shall be written in English language all correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

**22. Applicable Law** The Contract shall be interpreted in accordance with the SPP Rules 2010 (amended 2013).

**24. Taxes and Duties** Supplier shall be entirely responsible for all taxes, duties (including stamp duty), license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.

**25. Overriding effect of Sindh Public Procurement Rules 2010 (Amended 2013)** In case of conflict or primacy of interpretation the provisions of SPP Rules 2010 (amended 2013) shall have an overriding effect notwithstanding anything to the contrary contained in these bidding documents

## Part-IV

### Bid Data Sheet

The following specific data for “**ESTABLISHMENT OF DATA CENTER**” to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB) Part One. Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

<b>Introduction</b>	
<b>ITB 1</b>	<b>Name of Procuring Agency:</b> office of Planning & Development Department, Jinnah Sindh Medical University, Karachi. Telephone No. 021-35223812-15 Ext-350, Fax 021-99201372.
<b>ITB 1</b>	<b>Name of Contract.</b> “ <i>ESTABLISHMENT OF DATA CENTER FOR J.S.M.U, KARACHI</i> ”
<b>Bid Price and Currency</b>	
<b>ITB 4</b>	Prices quoted by the Bidder shall be “ <i>fixed</i> ” and in” <i>Pak Rupees</i> ”
<b>Preparation and Submission of Bids</b>	
<b>ITB 7</b>	<i>Qualification requirements:</i>  Please refer to <b>Technical Evaluation Criteria</b> in subsequent section.
<b>ITB 9</b>	<b>Amount of bid security.</b> 2% of Bid Value
<b>ITB 10</b>	<b>Bid validity period.</b> 90 days
<b>ITB 11</b>	<b>Number of copies.</b> One original One Photo Copy
<b>ITB 13</b>	<b>Deadline for bid submission.</b> 14-06-2016 at 11.00 AM
<b>ITB 19.1</b>	<b>Bid Evaluation:</b> To Fulfill Technical Evaluation criteria and Lowest evaluated bid.

## TECHNICAL EVALUATION CRITERIA

Bidders will be assessed on Technical Evaluation Criteria given as under:

Sr. #	Description	Marks of Eligibility	Marks Obtained
1	Meeting Specification in Annexure "A"	25	
2	The bidder Past Experience in relevant projects min. 10 (attach copies - PO) Reference: contact information for no less than 10 references from projects similar in size and scope of work (including location and year).	15	
3	The bidder must submit scope of work with all the high level/low level diagrams/designs including power, connectivity, cooling, complete document. Mandatory. (attach Copies)	15	
4	At least 4 Certified personals for the Data Center Certified Professional - CDCP (attach copies).	10	
5	At least 4 Certified Prince2 Project Management (attach copies).	5	
6	At least 4 Certified Engineers in Passive Infrastructure Services, (attach copies).	5	
7	At least 2 Certified personals for the Data Center Infrastructure Management Professional - DCIM (attach copies).	5	
8	The bidder should be Tier-I, ASDP partner and Distributor (attach certificate copy).	5	
9	The bidder should be associated with principal (ASDP and Distributor, Manufacturer) since 5 years at least.	5	
10	Annual Turnover in Last 3 Years Minimum 100 Million & Tax Return of Last 3 Years.	5	
11	The bidder must submit scope of work/Project Plan.	5	

Please do attach documentary evidence in support of your claims in technical proposal. Minimum Qualification is 80 marks out of 100 marks. Less than 80 marks in technical evaluation criteria of technical bid will not be eligible for financial bid.

The Vendor may visit the data center site location till 2 June 2016 with one day prior request in writing.

## INSTRUCTIONS FOR TECHNICAL BID

(a) The Data Center items should be branded and/or local (refer Annexure A) and their manufacturers must be internationally recognized. Further, their principle must be available in Pakistan. The vendor/company should/must be Tier-1, ASDP (Authorized Service Delivery Partner) and Distributor. (Copy of certificate may be attached)

(b) The company in question must be an internationally licensed and recognized manufacture/OEM of Data Center items. Proof of Principle availability must be provided by the Bidder.

(c) Bid will be only acceptable if your Brand's Principle/Manufacturer authorized vendor to participate in respective tender, the vendor must submit Manufacturer authorization letter duly signed on principles letter head.

(d) The vendor should provide 1 year support & 4 preventive maintenance of the Data Center at The Jinnah Sindh Medical University Karachi as offered in their respective bid.

(g) Vendor/supplier must provide samples of items/goods after acceptance of technical bid, where required.

(h) The company should be working in IT Industry having requisite experience and must have provided similar products.

(i) The supplier must submit the following Documents along with the Technical Quotation:

- i. General Sales Tax Registration Certificate
- ii. NTN Certificate & Clearance certificate of previous year tax return
- iii. Company profile

- iv. Reference list of ongoing and completed projects.
- v. Principle/Manufacturer authorization letter.
- vi. Certificate of Authorized Service Delivery Partner or Equivalent.
- vii. Layout diagrams (AutoCAD) High Level and Low Level.
- viii. Attach all the documents mentioned in the technical evaluation criteria

## **Part-V**

### **Special Conditions of Contract**

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

#### **1. Definitions (GCC Clause 1)**

GCC 1 (g)—The Procuring Agency is: Office of the Planning & Development Department Jinnah Sindh Medical University, Karachi.

#### **2. Performance Security (GCC Clause 4)**

GCC 4—The amount of performance security, as a percentage of the Contract Price, shall be: 10%.

#### **3. Inspections and Tests (GCC Clause 5)**

Inspection of JSMU shall inspect the procured good and ensure that it meets the tender specifications before its acceptance

#### **4. Delivery and Documents (GCC Clause 7)**

GCC 10—Supplier shall complete works within 8 to 10 weeks after signing the contract and shall submit the following.

- (i) Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) Packing List identifying the contents of Supply;

- (iii) Delivery note.
- (iv) Warranty and guarantee certificate;

**7. Warranty (GCC Clause 12)**

The equipment shall bear Standard warranty (with free parts & labor) from the date of installation / acceptance. Upon expiration of warranty, Purchaser at its option may enter into a Service Level Maintenance Agreement upon expiry of the warranty period.

**8. Payment (GCC Clause 13)**

Hundred percent (100%) of the Contract Price shall be paid upon delivery, and satisfactory Installation, integration and testing of the products at the Project site (s), subject to the production of installation and Operational Acceptance certificates duly signed by authorized Inspection Committee of JSMU.

**9. Liquidated Damages (GCC Clause 18)**

If the Supplier fails to deliver the goods or perform the services within the time period(s) specified in the contract, the Purchaser shall, without prejudice to its other remedies under the contract deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.07 percent of the Contract Price for each day of delay until actual delivery or performance, up to a maximum deduction of 10% of the Contract Price. Once the maximum is reached, the purchaser may consider termination of the contract.

**10. Resolution of Disputes (GCC Clause 21)**

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to the dispute resolution mechanism as defined in rule 31, 32 and 34 of the (SPPR 2010) Amended 2013

**11. Applicable Law (GCC Clause 23)**

GCC 29.1 Contract shall be interpreted in accordance with the Sindh Public Procurement law of Sindh.

**Part-VI**

**SCHEDULE OF REQUIREMENTS**

The delivery schedule hereafter expressed the date of delivery required.

<b>S.No.</b>	<b>Product</b>	<b>Quantity</b>	<b>Required Delivery Schedule from the Date of Contract Award</b>	<b>Location</b>
1	Supply, Installation and Integration of Data Center Equipment.	1	Within 8 to10 weeks	Data Center Location, JMSU

**Note:** Specifications of above items are attached in annexure A.

**Part-VII**

**SAMPLE FORMS**

**Form-I**

**Letter of Acceptance**

Date: \_\_\_\_\_

To:

Advisor Planning & Development Department,  
Jinnah Sindh Medical University,  
Karachi,

Dear Sir:

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the required item in conformity with the said bidding documents for the sum of *[total bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to Five (5) percent of the Contract Price/Pay order for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this Bid for a period of 15 days from the date fixed for Bid opening under Clause 10 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2014\_\_\_\_\_.

\_\_\_\_\_  
*[signature]*

\_\_\_\_\_  
*[in the capacity of]*

Duly authorized to sign Bid for and on behalf of \_\_\_\_\_



**Form-II**

**Price Schedule in Pak. Rupees**

Name of Bidder \_\_\_\_\_ . IFB Number \_\_\_\_\_. Page . of \_\_\_\_

1	2	3	4	5		6	7
Item	Description	Country of origin	Quantity	Unit price		Total	Remarks (if any)
				<u>Words</u>	<u>Figure</u>		

Total Bid amount in words: \_\_\_\_\_

Total Bid amount in figure: \_\_\_\_\_

Signature of Bidder \_\_\_\_\_

*Note:*

- (i) In case of discrepancy between unit price and total, the unit price shall prevail.
- (ii) The unit and total prices Delivered at Planning & Development Department, Jinnah Sindh Medical University Karachi should include the price of incidental services. No separate payment shall be made for the incidental services.



**Form-IV**

**Contract Form**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ between *Jinnah Sindh Medical University, Karachi*. (hereinafter called “the Procuring agency”) of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called “the Supplier”) of the other part:

WHEREAS the Procuring agency invited bids for certain goods and ancillary services, viz., *ESTABLISHMENT OF DATA CENTER FOR J.S.M.U, KARACHI*. has accepted a bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

- (a) the Bid Form and the Price Schedule submitted by the Bidder;
- (b) the Schedule of Requirements;
- (c) the Technical Specifications and technical evaluation criteria.
- (d) the General Conditions of Contract;
- (e) the Special Conditions of Contract; and
- (f) the Procuring agency’s Notification of Award.

3. In consideration of the payments to be made by the Procuring agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring agency to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract

4. The Procuring agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Procuring agency)

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Supplier)

**Performance Security Form**

To:

**Planning & Development Department  
Jinnah Sindh Medical University,  
Karachi.**

WHEREAS *[name of Supplier]* (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated \_\_\_\_\_ 2014\_\_\_\_\_ to supply *[description of goods and services]* (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

Signature and seal of the Guarantors

\_\_\_\_\_  
*[name of bank or financial institution]*

\_\_\_\_\_  
*[address]*

\_\_\_\_\_  
*[date]*

**Manufacturer's Authorization Form**

To:

**Planning & Development Department  
Jinnah Sindh Medical University,  
Karachi.**

WHEREAS *[name of the Manufacturer]* who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]*

do hereby authorize *[name and address of Agent]* to submit a bid, and subsequently sign the Contract with you against NIT No. *[reference of the Invitation to Bid]* for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 12 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

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*[signature for and on behalf of Manufacturer]*

*Note:* This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

**ANNEXURE A**

**SPECIFICATIONS OF DATA CENTER FOR JINNAH SINDH MEDICAL UNIVERSITY, KARACHI**

<b>ELECTRICAL MATERIAL</b>				
<b>SNO</b>	<b>DESCRIPTION</b>	<b>BRAND</b>	<b>QTY</b>	<b>UOM</b>
1	Main Power Distribution Panel for UPS input, HVAC & Light & Row power DB	LOCAL / HAGER / SCHNIEDER/ OR EQUILENT	1	EACH
	MCCB 100A TP with Under over volt protection		2	EACH
	MCCB 60A TP for HVAC + Lighting DB		1	EACH
	MCCB 60A TP for UPS input		2	EACH
	MCCB 60A TP for Bypass		1	EACH
	Energy Analyzer and LED		1	EACH
2	Sub-Distribution Panel of UPS Out for PDU & other load of Data Center	LOCAL / HAGER / SCHNIEDER/ OR EQUILENT	1	EACH
	MCCB 50A TP		2	EACH
	MCB 32A DP for Rack PDU		16	EACH
	MCB 10A SP for Lights, Fire Suppression System, Technical Box		6	EACH
	MCB 6A SP for Access Control and Spare.		8	EACH
	Energy Analyzer, LED and Digital Meters (Voltage & Amp)		1	EACH
3	Sub-Distribution Panel of Cooling & Light	LOCAL / HAGER / SCHNIEDER	1	EACH
	MCCB 60A TP		1	EACH
	MCCB 30A TP for HVAC		3	EACH
	MCB 20A SP for HVAC		3	EACH
	MCB 10A SP for Lights and Technology Box		10	EACH
	Sequencer for Floor Stand AC units(2+1)		1	EACH
	LED and Digital Meters (Voltage & Amp)		1	EACH

4	Electrical Cabling			
a	Supply of Main Power cable 4C 35mm (from Electrical room to Main Power room )(As per actual)	PAKISTAN CABLE/UNIVERSAL CABLE/PIONEER CABLE/ADAM JEE /JEDDAH/ OR EQUILENT	80	METER
b	Supply of Earth cable single core 16mm (As per actual)		50	METER
c	Earth Pit		2	EACH
d	Supply of 16mm 4 core+10mm 1 core cable from Main to HVAC/Light DB		10	METER
e	Supply of UPS Input & Output flexible cable 16mm 4 core		45	METER
f	Supply of Earth cable for UPS single core 10mm		45	METER
g	Supply of Cable 10mm 4 core for Floor Stand AC		60	METER
h	Supply of Cable Earth 6mm single core Floor Stand AC		60	METER
i	Supply of Cable 6mm 1 core x 3 for Split AC		50	METER
j	Supply of cable 6mm 3 core from UPS DB to Rack PDU		250	METER
k	Supply of Industrial Sockets 32 Amps. (3 pin) for Rack PDU		16	EACH
l	supply of 3/0.29 cabling for internal & tech. box		3	COIL
m	Supply of LED Light for DATA CENTER, Power ROOM, and N.O.C ROOM		13	EACH
n	Supply of cable 3/0.29 for Light of DATA CENTER, Power Room and N.O.C ROOM		3	COIL
o	Supply of dual electrical sockets 1 for UPS ,1 for Raw & 1 for Data with complete accessories		12	EACH
p	Switch board 4, 3,4 & 2 gang with back box	4	EACH	
q	Ethernet cable for technology box	1	EACH	

FURNITURE FOR NOC ROOM				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Best quality of Furniture for NOC Room Area with all Attachments and Accessories which includes sitting arrangement for 8 persons, integrated Computer tables for 8 persons, 8 chairs, data connections and required power sockets.	LOCAL	8	EACH

CABLE TRAY SYSTEM				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Supply of Metal Steel perforated cable tray with top cover above powder coated 8x4 cable routing system for Data cables.	LOCAL	300	RFT

ACCESS CONTROL SYSTEM				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Access control with RFID and key pad access options the system should be intelligent and capable of controlling one door. Software, Door control panel, Surge Suppressors, with Lan Support Power Supply, Door Lock Bolt/Electro Magnetic	ZK ACCESS / VIRIDI / OR EQUILENT	2	EACH

BRANDED 20KVA UPS				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	20KVA UPS with Standard Backup: Specification: Power Capacity in VA: 20KVA, Power Capacity in Watts: 9kW, Output Power Factor: 0.9, Technology: On-line Double Conversion, Rectifier Type: IGBT, Form Factor (For UPS only): Tower and rack convertible, optional rail kit available, System Efficiency: Up to 94%, Transfer Time (power failure): No transfer time, on-line operation, Parallel Operation: 3+1 parallel operation, Input Rated Voltage: 400VAC 3-phase, 4-wire system, Input Voltage Range: 3-phase, 228VAC to 478VAC, Input Frequency Range: 45Hz to 70Hz, Input Power Factor: Full Load > 0.99 Output Rated Power: 20kVA / 18kW, Output Voltage Stability: 1%, Output Frequency Stability: 0.25%, Output Voltage THD: < 2% linear load, <5% non-linear load, System Efficiency: Up to 94% Battery Type: Sealed, non-spillage, maintenance-free lead-acid battery, Charging Capability: 4.5kW, max charging power, External Battery Cabinet: One Cabinet required for Standard Backup; Cabinet contains 32 blocks x 12V x 18AH / Equivalent, Backup Time: 8 Minutes of Backup Time on 75% or 13,500 Watts of Load, Built-in Charger Capacity: 10 A Minimum, External Battery Charger: 10 Ampere External Charger (available as an Optional for Extra-Long Backups), Load Crest Factor: 3:1 (compliant with IEC 62040-3), Step Load Performance: 100%, Overload Capacity Performance: (% rated load), 105 to 125% for 5min, 125 to 150% for 1min, > 150% for 200ms, Noise: ≤ 58dB Standards / Conformity: IEC/EN62040-1-1, EMC: IEC / EN 62040-2, IEC / EN61000-3-11, IEC / EN61000-3-12, YD / T1095-2008, Surge Protection: IEC / EN 61000-4-5, Protection Level: IP20, Interface Type: USB / Intellislot, Operating Temperature: 0 to 40oC, non-condensing Altitude (m): 2000, Communication and Monitoring: Optional WEB / SNMP card for remote monitoring External Maintenance Bypass: Available as an Optional, Built-In Automatic Bypass: Included AVR: Built-in Automatic Voltage Regulator, Control Panel: Panel with LCD display Warranty: One year Standard Warranty of UPS Including Batteries.	EMERSON/APC / OR EQUILENT	2	EACH



COMFORT COOLING SOLUTION				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	4 Ton Floor Stand Cooling unit for Data Center.	EURO AIR/ MITSUBISHI / OR EQUILENT	3	EACH
2	1.5 Ton Split unit for Power Room.		3	EACH
3	Material of Installation, Startup & Commissioning (outdoor unit will be installed backside of Data Center wall)		1	EACH

RACK 42U				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Rack 42U 600X 1090 C/W Perforated doors with lock and key ;Split side panels ; EIA mounting rails ; levelling feet ; color black ; Curved front door (EM-RES61042BFSCR)	EMERSON / IBM/ TOTEN/ OR EQUILENT	6	EACH

POWER DISTRIBUTION UNIT (PDU)				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Vertical Rack Basic PDU:16A IEC309,20way C13 + 4way C19, Metered, BLK	EMERSON / TOTEN / EQUIVALENT	2	EACH
2	Vertical Rack Basic PDU:32A IEC309,20way C13 + 4way C19, Metered, BLK		10	EACH
3	LTS, Load Transfer Switch 16A		2	Each

ENVIRONMENTAL MONITORING SYSTEM				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	ENVIRONMENTAL SOLUTION for Monitoring, temperature , humidity,USB camera, GSM modem, voltage ,water & digital sensors.	EMERSON / SKY CONTROL / AKCP / OR EQUILENT	1	EACH
2	HUMIDITY & TEMPERATURE SENSOR		4	EACH
3	WATER DETECTION CABLE		2	EACH

KEYBOARD VIDEO MOUSE SWITCH (KVM)				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	8 - Ports digital KVM appliance, one digital port with local port, 8 target devices, ID/VN/PK plug	EMERSON / AVOCENT / OR EQUILENT	1	NOS
2	18" LCD Tray, USB KB		1	NOS
3	(USBIAAC-10) Integrated Access Cable Cat5 - USB, 10 ft		8	NOS

IP SURVEILLANCE & MONITORING SOLUTION				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	Wireless IP Camera 11n,1lux,CMOS Sensor,UNPN	HIK VISION / DLINK / OR EQUILENT	4	EACH
2	2 Bay NVR Basic for D-Link IP Cameras Only		1	EACH
3	Wire for IP-Camera		1	Each
4	3-TB SATA HDD for recording		2	EACH
5	LED TV 40" with HDMI cable & complete accessories		1	EACH
6	LED TV 32" with HDMI cable & complete accessories		1	EACH

FIRE SUPPRESSION SYSTEM FM200				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	<p><u>Fire suppression systems for Data Center</u></p> <ul style="list-style-type: none"> <li>• CONVENTIONAL EXTINGUISHING AREA CONTROL PANEL</li> <li>• SMOKE DETECTOR WITH BASE</li> <li>• MANUAL PULL STATION</li> <li>• ABORT SWITCH</li> <li>• HORN/STROBE</li> <li>• 6" FIRE ALARM BELL</li> <li>• GAS CONTAINER &amp; ACTUATOR</li> <li>• 360 DEGREE DISCHARGE NOZZLE</li> <li>• CAUTION SIGN (DO NOT ENTER)</li> <li>• MECHANICAL FITTING WITH MS SCHEDULE 40 HIGH PRESSURE PIPING AND ACCESSORIES AS PER FM 200 PIPING STANDARDS. WIRING FOR SYSTEM COMPONENTS WITH 2X1.5SQ.MM PVC WIRES IN 20MM DIA PVC CONDUIT AND AS REQUIRED COMPLETE WITH JUNCTION BOX AND ALL ACCESSORIES.</li> </ul>	FM-200 / NOVEC / OR EQUILENT	1	EACH
2	<p><u>Fire suppression systems for Power Room</u></p> <ul style="list-style-type: none"> <li>• CONVENTIONAL EXTINGUISHING AREA CONTROL PANEL</li> <li>• SMOKE DETECTOR WITH BASE</li> <li>• MANUAL PULL STATION</li> <li>• ABORT SWITCH</li> <li>• HORN/STROBE</li> <li>• 6" FIRE ALARM BELL</li> <li>• GAS CONTAINER &amp; ACTUATOR</li> <li>• 360 DEGREE DISCHARGE NOZZLE</li> <li>• CAUTION SIGN (DO NOT ENTER)</li> <li>• MECHANICAL FITTING WITH MS SCHEDULE 40 HIGH PRESSURE PIPING AND ACCESSORIES AS PER FM 200 PIPING STANDARDS. WIRING FOR SYSTEM COMPONENTS WITH 2X1.5SQ.MM PVC WIRES IN 20MM DIA PVC CONDUIT AND AS REQUIRED COMPLETE WITH JUNCTION BOX AND ALL ACCESSORIES.</li> </ul>	FM-200 / NOVEC / OR EQUILENT	1	EACH

MISCELLANEOUS Works				
SNO	DESCRIPTION		QTY	UOM
1	Material for existing partitions of doors & window etc.	LOCAL	1	Each
2	Supply Material for Glass and paint		1	Each
3	Supply Material of Anti Static floor for Data Center and Power Room		280	Sq.ft

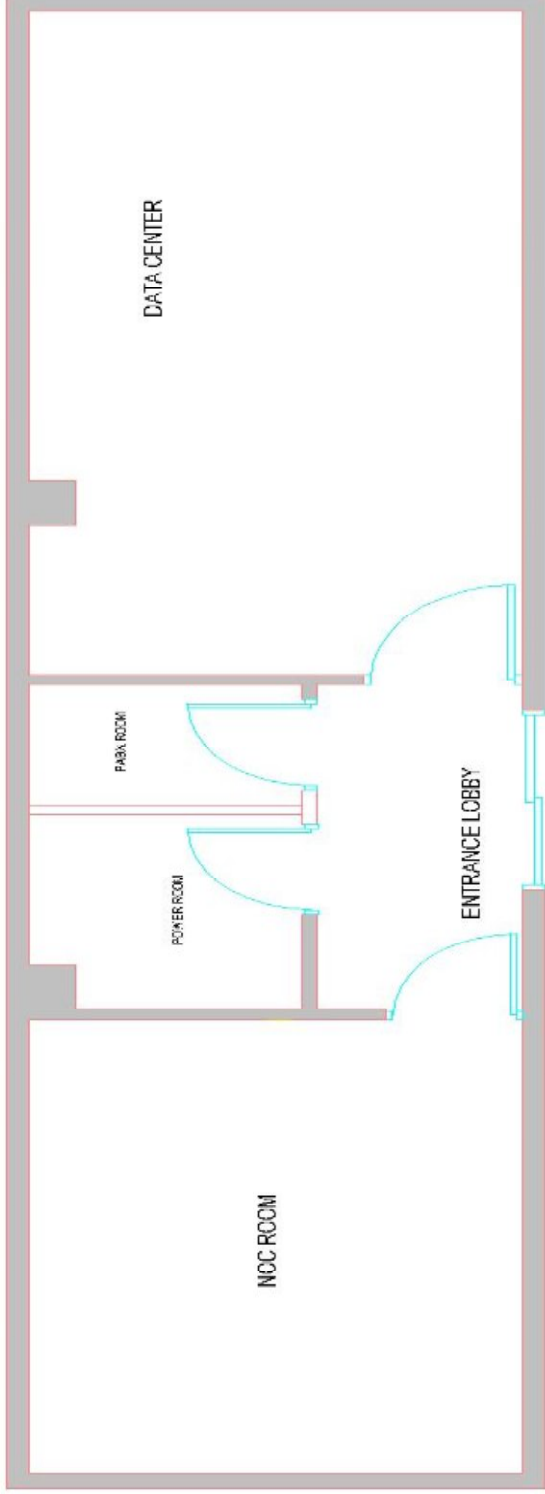
RACK TO RACK LAN CONNECTIVITY PASSIVE SOLUTION				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	CAT-6 UTP 48 Port Patch Panel Loaded with Cat-6 I/Os, Straight, 2U (3.50 in) x 19.0 in	DLINK / 3M / TOTEN / OR EQUILENT	3	Each
2	CAT-6 UTP 24 Port Patch Panel Loaded with Cat-6 I/Os, 1U (1.75 in) x 19.0 in		5	Each
3	Cable Manager Panel, Horizontal Finger Duct, Single-sided, 1U (1.75 in) x 19.0 in		8	Each
4	Category 6 (CAT6) 24 AWG solid bare copper, 4-pair UTP cable, exceed TIA/EIA-568-B.2-1 and ISO/IEC 11801:2002 Class E, IEC61156-5, IEC60332-1-2, EN50288-6-1 and EN50173-1 Standard 305m Box		8	Each
5	Cat 6 RJ 45 to RJ 45 Patch Cable, UTP,PVC, 1m Blue		120	Each
6	Cat 6 RJ 45 to RJ 45 Patch Cable, UTP,PVC, 3m Blue		120	Each
7	15U Rack wallmount		1	Each
8	6-way PDU Basic		2	Each
9	8-core fiber		20	Each
10	Joint enclosure		1	Each
11	Miscellaneous & Other Accessories		1	Each

INSTALLATION				
SNO	DESCRIPTION	BRAND	QTY	UOM
1	ELECTRICAL MATERIAL	LOCAL	1	JOB
2	CABLE TRAY SYSTEM		1	JOB
3	ACCESS CONTROL SYSTEM		1	JOB
4	BRANDED 20KVA UPS		1	JOB
5	COMFORT COOLING SOLUTION		1	JOB
6	RACK 42U		1	JOB
7	POWER DISTRIBUTION UNIT (PDU)		1	JOB
8	ENVIRONMENTAL MONITORING SYSTEM		1	JOB
9	KEYBOARD VIDEO MOUSE SWITCH (KVM)		1	JOB
10	IP SURVEILLANCE & MONITORING SOLUTION		1	JOB
11	FIRE SUPPRESSION SYSTEM FM200		1	JOB
12	CIVIL Works		1	JOB
13	RACK TO RACK LAN CONNECTIVITY PASSIVE SOLUTION		1	JOB
14	Miscellaneous & Other Accessories		1	JOB

## MIGRATION TO A NEW DATA WITHOUT DOWNTIME

SNO	DESCRIPTION	BRAND	QTY	UOM
1	The bidders are required to submit the complete plan for migration to a new Data Center without any Down time to existing services in old Server Room located at the same place.	N/A	1	JOB

Proposed Layout **ANNEXURE B**



# LAYOUT PLAN

JINNAH SINDH MEDICAL UNIVERSITY DATA CENTER