BIDDING DOCUMENTS

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A. Instructions to Bidders (ITB)

General Instructions:

1. Content of Bidding Document

1.1 The goods required, bidding procedures, and Contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:

   (a) Instructions to Bidders (ITB);
   (b) General Conditions of Contract (GCC);
   (c) Special Conditions of Contract (SCC);
   (d) Schedule of Requirements;
   (e) Technical Specifications;
   (f) Contract Form;
   (g) Manufacturer's Authorization Form;
   (h) Performance Guaranty Form;
   (i) Bid Form; and
   (j) Price Schedule.

1.2 The "Invitation for Bids" does not form part of the Bidding Documents and is included as a reference only. In case of discrepancies between the Invitation for Bid and the Bidding Documents listed in 1.1 said Bidding Documents shall take precedence.

1.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect shall be at the Bidder's risk and may result in the rejection of its bid.

2. Source of Funds

2.1 The Government of Punjab has allocated funds to Sheikh Zayed Medical College/Hospital, Rahim Yar Khan for purchase of medical equipment and under the relevant head of Account during the financial year 2014-2015 (herein referred to as the "Procuring Agency").

3. Eligible Bidders

3.1 This Invitation for Bids is open to all original Manufacturers/authorized Sole Agents of Foreign Principals in Pakistan for supply of goods.

3.2 The bidder must possess valid authorization from the Foreign Principal / Manufacturer and in case of Manufacturer; they should have a documentary proof to the effect that they are the original Manufacturer of the required goods.

3.3 Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government (Federal, Provincial), a local body or a public sector organization.
4. **Eligible Goods and Services**

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source Countries and all expenditures made under the contract shall be limited to such goods and services.

4.2 For the purpose of this clause, (a) the term "Goods" includes any Goods that are the subject of this Invitation for Bids and (b) the term "Services" includes related services such as transportation, insurance, after sale service, spare parts availability, etc. For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing or processing, or substantial and major assembly of components, a commercially recognized product is produced that is substantially different in basic characteristics or in purpose or utility from its components.

5. **Cost of Bidding**

5.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

6. **Clarification of Bidding Documents**

6.1 A prospective Bidder requiring any clarification of the bidding documents may notify the Procuring Agency in writing at the Procuring Agency's address indicated in the Invitation for Bids. The Procuring Agency shall respond in writing to any request for clarification of the bidding bids prescribed in the Invitation for Bids. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying the source of inquiry) shall be sent to all prospective Bidders that have received the bidding documents.

7. **Amendment of Bidding Documents**

7.1 At any time prior to the deadline for submission of bids, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the bidding documents by amendment.

7.2 All prospective Bidders those have received the bidding documents shall be notified of the amendment in writing or by cable or by phone, and shall be binding on them.

7.3 In order to allow prospective Bidders reasonable time in which to take the amendment into account in preparing their bids "Procuring Agency and its discretion may extend the dead line for the submission of bids. Amendment notice to that effect shall be communicated in the same manner as the original invitation to bid.

8. **Qualification and Disqualification of Bidders**

8.1 In the absence of prequalification, the Procuring Agency shall determine to its satisfaction
whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the Contract satisfactorily, in accordance with the criteria listed in ITB Clause 29.2.

8.2 The determination shall take into account the Bidder's financial, technical, and production capabilities, it shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 29.2, as well as such other information as the Procuring Agency deems necessary and appropriate.

8.3 An affirmative determination shall be a pre-requisite for Award of the Contract to the Bidder. A negative determination shall result in rejection of the Bidder's bid, in which event the Procuring Agency shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily:

8.4 The Procuring Agency, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in Supplier's capacities, may require the Suppliers to provide information concerning their professional, technical, financial, legal or managerial competence.

8.5 The Procuring Agency shall disqualified a Bidder if it finds, at any time, that the information submitted by him concerning his qualification as Supplier was false and materially inaccurate or incomplete.

8.6 Bidders that are found to consistently fail to provide satisfactory performances or are found to be indulging in corrupt or fraudulent practices shall be black listed.

9. Corrupt or Fraudulent Practices

9.1 The Procuring Agency requires that all Bidders/ Suppliers/ Contractors observe the highest standard of ethics during the procurement and execution of such Contracts. In pursuance of this policy, the Procuring Agency:

a. defines, for the purposes of this provision, the terms set forth below as follows:

i. "Corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution; and

ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Procuring Agency, and includes collusive practice among Bidders

iii. (Prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Procuring Agency of the benefits of free and open competition;

b. Shall reject a proposal for Award if it determines that the Bidder recommended for
award has engaged in corrupt or fraudulent practices in competing for the Contract in question; shall declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Contract.

Preparation of Bids

10. **Language of Bid**

10.1 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 English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, the translation shall govern.

11. **Documents Comprising the Bid**

11.1 The bid prepared by the Bidder shall comprise the following components:

(a) A Bid Form and Price Schedule completed in accordance with ITB Clauses 12 and 13 (to be submitted along with financial proposal);

(b) Documentary evidence established in accordance with ITB Clause 15 that the Bidder is eligible to bid and is qualified to perform the Contract if its bid is accepted;

(c) Documentary evidence established in accordance with ITB Clause 15 that the goods to be supplied by the Bidder are eligible goods and conform to the bidding documents.

12. **Bid Form and Price Schedule**

12.1 The Bidder shall complete the Bid Form and an appropriate Price Schedule furnished in the bidding documents *(Annexure A Form)*, indicating the goods to be supplied, and a brief description of the goods, specifications, taxes, quantity, and prices.

13. **Bid Prices**

13.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid price of the goods, it proposes to supply under the Contract.

13.2 Form for Price Schedule is to be filled in very carefully, and should be typed. Any alteration/ correction must be initialed. Every page is to be signed and stamped at the bottom. Serial number/ bid number of the quoted item may be marked or highlighted with red/yellow marker.

13.3 The Bidder should quote the prices of goods according to the technical specifications. The specifications of goods, different from the demand of enquiry, shall straightway be
rejected.

13.4 The Bidder is required to offer competitive price. All prices must include relevant taxes and duties, where applicable. If there is no mention of taxes, the offered/quoted price shall be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Procuring Agency.

13.5 Prices offered should be for the entire quantity demanded; partial quantity offers shall straightaway be rejected. Conditional offer shall also be considered as non-responsive Bidder.

13.6 While tendering your quotation, the present trend/inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services shall be entertained after the bid has been submitted.

14. **Bid Currencies**

14.1 Prices shall be quoted in Pak Rupees in case of free delivery basis (DDP).

14.2 State Bank of Pakistan's foreign currency selling rate will be considered from the date of opening of financial bid (Import Cases).

15. **Documents Establishing Bidder's Eligibility and Qualification**

15.1 The Bidder shall furnish, as part of its technical bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

15.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Procuring Agency's satisfaction that the Bidder, at the time of submission of its bid, is an eligible as defined under ITB Clause 3.

15.3 The documentary evidence to be submitted in the Technical Proposal for the purposes of qualification and technical evaluation shall include:

(a) The Supplier/agent shall have to produce letter of authorization from Manufacturer and in case of Manufacturer, documentary proof to the effect that they are the original Manufacturer of the required goods shall be provided.

(b) National Tax Number (NTN) and General Sales Tax Number (if applicable) with documentary proof shall have to be provided by each Bidder in the tender.

(c) The Bidder/Manufacturer shall submit an affidavit on legal stamp paper of Rs. 20/- that their firm has not been blacklisted in the past on any ground by any Government (Federal, Provincial), a local body or a public sector organization. On account of submission of false statement the Bidder shall be disqualified forthwith and subsequently black listed.
(d) The Bidder should have minimum three years experience in the market which will be counted from the date of Authorized Letter of Principal/Local Manufacturer. Similarly it is mandatory that the item to be quoted by the Bidder/Manufacturer should have already been used in different public/private Institution/hospitals. Documentary proof shall have to be provided in this regard.

(e) The Bidder is required to provide with the technical proposal the name of item(s), tender number and serial number in the exact manner as quoted in the financial proposals.

(f) The Bidder must indicate the country of origin of the goods, capacity of production of the firm (in case of manufacturer), its financial status, necessary assurance of quality production, Certificate*) for conformity with International standards of Quality (original or attested certification) and list of qualified (attested degrees or certification) technical persons along with qualification and trainings (including details of CNIC), payroll details of staff, list of main service, testing and calibration tools and supervisory staff working in the production and quality control departments in the manufacturing plants.

(g) The Bidder (in case of manufacturer) shall provide a list of plant, major machinery and equipment installed in the factory. All necessary equipment must be calibrated and validation certificate to be included in the technical bid.

(h) In case of non-local manufacturers the list of Countries in which the specific product is available and is in use. Information to be duly certified by the appropriate Punjab Chapter of the Chamber of Commerce.

(i) The Bidder shall provide firms balance sheet, latest tax paid, audit inspection report (if undertaken) and at least one year bank statement.

(j) The Bidder shall provide total list of products it supplies in the market. The Bidder shall also be responsible for providing up to date and authentic contact details of both private and public hospitals to which it has supplied over the last two years. Bidder shall also provide Pre-qualification/supply order details over last (01) year with complete and up to date details of its distribution sub-offices or/and representatives.

16. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

16.1 Pursuant to ITB Clause 11, the Bidder shall furnish along with technical proposal, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods, which the Bidder proposes to supply under the Contract.

16.2 The documentary evidence of the eligibility of the goods shall consist of a statement in the Price Schedule of the country of origin of the goods offered, with a certificate of
the Price Schedule of the country of origin of the goods offered, with a certificate of origin issued by the Manufacturer.

16.3 Submission of sample (where demanded): If so required by the technical committee, to be recorded in writing, the bidder shall provide a sample or demonstration as the case may be.

17. **Bid Security**

17.1 There will be 5% Bid Security of estimated price.

18. **Bid Validity**

18.1 Bids shall remain valid for a period of One hundred and twenty (120) days after opening of Technical Bid prescribed by the Procuring Agency. A bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive.

18.2 The Procuring Agency shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However, under exceptional circumstances and for reasons to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity. Such extension shall not be for more than the period equal to the period of the original bid validity.

18.3 Bidders who,

(a) agree to the Procuring Agency's request for extension of bid validity period shall not be permitted to change the substance of their bids; and

(b) Do not agree to an extension of the bid validity period shall be allowed to withdraw their bids, if any.

**Submission of Bids**

19. **Format and Signing of Bid**

19.1 The bid shall be typed and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The person or persons signing the bid shall initial all pages of the bid.

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

19.3 All bidding documents to be duly attested (signed and stamped) by the authorized person of company.

20. **Sealing and Marking of Bids**

20.1 The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion. The envelopes shall then be sealed in an outer envelope.

20.2 The inner and outer envelopes shall:
Rahim Yar Khan (Procuring Agency) at the address given in the Invitation for
Bids; and
b) Bear the Institution/Hospital name and number indicated in the Invitation for
Bids, and shall be inscribed by the following sentence: "DO NOT OPEN
BEFORE." to be completed with the time and the date specified in the invitation
for Bid.

20.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the
bid to be returned unopened in case it is declared as non-responsive or late.

20.4 If the outer as well as inner envelope is not sealed and marked properly, the Procuring
Agency shall assume no responsibility for the bid's misplacement or premature opening.

21. Deadline for Submission of Bids

21.1 Bids must be submitted by the Bidder and received by the Procuring Agency at the
address specified under ITB Clause 19.1 not later than the time and date specified in the
Invitation for Bids.

21.2 The Procuring Agency may, at its discretion, extend this deadline for the submission of
bids by amending the bidding documents in accordance with ITB Clause 7, in which case
all rights and obligations of the Procuring Agency and Bidders previously subject to
the deadline shall thereafter be subject to the deadline as extended.

22. Late Bid

22.1 Any bid received by the Procuring Agency after the deadline for submission of bids
prescribed by the Procuring Agency pursuant to ITB Clause 21 shall be rejected and
returned unopened to the Bidder.

23. Withdrawal of Bids

23.1 The Bidder may withdraw its bid prior to the deadline specified in the invitation to bid.

23.2 No bid may be withdrawn in the interval between the deadline for submission of bids and
the expiration of the period of bid validity specified in ITB Clause 18.2 Withdrawal of a
bid during this interval will make the bidder eligible to be debarred for further
procurements for a period as deem necessary by the Procuring Agency.

The Bidding Procedure

24. Single stage -two envelopes bidding procedure

24.1 Single stage - two envelopes bidding procedure shall be applied:

(i) The bid shall comprise a single package containing two separate envelopes.
    Each envelope shall contain separately the financial proposal and the technical
    proposal;

(ii) The envelopes shall be marked as "FINANCIAL PROPOSAL" and
    TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion;
(iii) Initially, only the envelope marked "TECHNICAL PROPOSAL" shall be opened;
(iv) The envelope marked as "FINANCIAL PROPOSAL" shall be retained in the custody of Procuring Agency without being opened;
(v) The Procuring Agency shall evaluate the technical proposal, without reference to the price and reject any proposal which do not conform to the specified requirements;
(vi) During the technical evaluation no amendments in the technical proposal shall be permitted;
(vii) The financial proposals of bids shall be opened publicly at a time, date and venue to be announced and communicated to the Bidders in advance;
(viii) After the evaluation and approval of the technical proposal the Procuring Agency shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective Bidders; and
(ix) The bid found to be the lowest evaluated bid shall be accepted or as otherwise directed by competent authority.

Opening and Evaluation of Bids

25. Opening of Bids by the Procuring Agency

25.1 The Procuring Agency shall initially open only the envelopes marked TECHNICAL PROPOSAL" in the presence of Bidders representatives who choose to attend, at the time, on the date, and at the place specified in the Invitation for Bids. The Bidders representatives who are present shall sign the Attendance Sheet as evidence of their attendance. However, the envelope marked as "FINANCIAL PROPOSAL" shall remain unopened and shall be retained in safe custody of the Procuring Agency till completion of the evaluation process.

25.2 The Bidders names, item(s) for which they quoted their rate and such other details as the Procuring Agency, at its discretion, may consider appropriate, shall be announced at the opening of technical proposal. No bid shall be rejected at technical proposal/ bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 21. However, at the opening financial proposals (the date, time and venue would be announced later on), the bid prices, discounts (if any), and the presence or absence of requisite bid Security and such other details as the Procuring Agency, at its discretion, may consider appropriate, shall be announced.

25.3 The Procuring Agency shall prepare minutes of both the technical proposal as well as the financial proposal bid opening.
26. Clarification of Bids

26.1 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.

27. Preliminary Examination

27.1 The Procuring Agency shall examine the bids to determine whether they are complete, whether any computational errors have been made (at the time of opening the financial proposal), whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

27.2 In the financial bids (at the time of opening the financial proposal) the arithmetical errors shall 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 total price shall be corrected. If the Bidders/Suppliers do not accept the correction of the errors, its bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.

27.3 The Procuring Agency may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation (or changes the substance of the bid), provided such waiver does not prejudice or affect the relative ranking of any Bidder.

27.4 Prior to the detailed evaluation, pursuant to ITB Clause 27 the Procuring Agency shall determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions shall be deemed to be a material deviation for technical proposals. The Procuring Agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

27.5 If a bid is not substantially responsive, it shall be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

28. Evaluation and Comparison of Bids

28.1 The Procuring Agency shall evaluate and compare the bids, which have been determined to be substantially responsive, pursuant to ITB Clause 25.

28.2 The Procuring Agency's evaluation of technical proposal/ bid shall be on the basis of previous performances, test reports, inspection of plant/ factory/ premises, previous experience, financial soundness and such other details as already highlighted.
However, the evaluation of financial proposal shall be on the basis of price inclusive of prevailing taxes and duties in pursuance to ITB Clause 13, 14.

28.3 All bids shall be evaluated in accordance with the evaluation criteria (ITB Clause 29) and other terms and conditions set forth in these bidding documents.

28.4 In case of procurement on C&F/ CIP/ CIF basis; for the purpose of comparison of bids quoted in different currencies, the price shall be converted into Pak Rupees in pursuance to ITB Clause 13. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan/ National Bank of Pakistan on that day.

28.5 A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the time of issue of notice for invitation of bids.

29. Evaluation Criteria

29.1 For the purposes of determining the lowest evaluated bid, facts other than price such as previous performances, previous experience, engineering/ technical capabilities, financial soundness and such other details as the Procuring Agency at its discretion, may consider appropriate shall be taken into consideration. The following evaluation factors/ criteria will be employed on Technical Proposals. The number of points allocated to each factor shall be specified in the Evaluation Report. Only bids securing minimum of 70% marks would be declared technically accepted.

i) After technical evaluation is completed, the Procuring Agency shall notify the date, time and location for opening of the financial proposals. Bidders' attendance at the opening of financial proposals is optional.

ii) Financial proposals shall be opened publicly in the presence of the bidders' representatives who choose to attend. The name of the bidders and the technical score of the bidder shall be read aloud. The financial proposal of the bidders who met the minimum qualifying mark shall then be inspected to confirm that they have remained sealed and unopened (financial proposals of those Bidders failing to secure minimum marks in the technical evaluation shall be returned unopened). These financial proposals shall be then opened, and the total prices read aloud and recorded.

29.2 Evaluation Criteria (In Case firms are not pre-qualified)

For the purposes of evaluation the word "Product" would mean the specific item included in the bidders bid, the specific make and model the bidder is including in the bid. Marking will be as follows:

<table>
<thead>
<tr>
<th>Sr.#</th>
<th>ASSESSMENT PARAMETERS</th>
<th>MARKS</th>
</tr>
</thead>
</table>

Sheikb Zayed Medical Complex, Rabim Yar Khan
i. Product Certification
   ISO (03)
   FDA + CE + JIS (05)
   If both categories 08

ii. Countries in which Product is available/used (International
    Firms/Companies/Manufacturers Only)
    Single Continent (02)
    Two Continents (04)

iii. Physical/cosmetic features of the Product
    90% of the specifications (06)
    100% of the specifications (08)

iv. Financial position/soundness
    Latest Income Tax Paid (04)
    Inspection by regulators (02)
    Financial statement including Firms/Companies Balance Sheet (04)

v. Brand, make and model
   Local Product with International market (05) - International Product with
   Local market will NOT be considered in this sub-category
   Local Product (04)
   International Product (03)

vi. Establishment of the company or firm in reference to the Product
    Number of technical and/or engineering staff
    Less than 5 (02)
    Less than 10 (04)
    Greater than 10 (05)
    Qualification (based on 50% of the number of staff)
    Diploma (03)
    B.Sc. (Engg.)/M.Sc./Phd. (05)
    Training - local or foreign (02)

vii. Product Specialization (applied to local, international manufacturer and
     local agents)
     Major Specialization - defined as 2-3 products (06)
     Minor Specialization - greater than 3 products (04)

viii. General overall reputation in reference to the Product
      Number of references provided
      Private sector + Public sector (08), Public Sector (05), Private Sector (05)

ix. Length and breadth of supply experience in reference to the Product
    South + North (05)
    South (04) + North (03)

x. Overall experience in reference to the Product
    Public or/and Private (04)
    No complaints investigated and established (accused associated) for last
    2 years (03)
    No complaints investigated and established (accused associated) for last 1 year (02)

xi. Local Manufacturer / Local Agent capacity for technical services in
    reference to the Product Repair workshop and Services arrangement as per
    makers recommendation of each products (09)
    Spare parts and accessories (06)
29.3 Financial proposals would be evaluated as follows:
   I. Incomplete bid shall stand rejected.
   II. Minor oversight, clerical mistakes, other minor inconsistencies that do not after the substances of the financial bid may be corrected by the Procuring Agency.

30. Contacting the Procuring Agency
30.1 No Bidder shall contact the Procuring Agency on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
30.2 Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract Award will result in the rejection of the Bidder's bid and subsequent black listing. Canvassing by any Bidder at any stage of the Tender evaluation is strictly prohibited.

31. Rejection of Bids
31.1 The Procuring Agency may reject any or all bids at any time prior to the acceptance of a bid. The Procuring Agency shall upon request communicate to any Bidder who submitted a bid, the grounds for its rejection of any or all bids, but is not required to justify those grounds.
31.2 The Procuring Agency incurs no liability, solely by virtue of its invoking Clause towards Bidders who have submitted bids.
31.3 Notice of the rejection of any or all bids shall be given promptly to the concerned Bidders that submitted bids.

32. Re-Bidding
32.1 If the Procuring Agency rejects all bids in pursuant to ITB Clause 30, it may call for re-bidding or if deems necessary and appropriate the Procuring Agency may seek any alternative methods of procurement.
32.2 The Procuring Agency before invitation for re-bidding shall assess the reasons for rejection and may revise specifications, evaluation criteria or any other condition for Bidders, as it may deem necessary.

33. Announcement of Evaluation Report
33.1 The Procuring Agency shall announce the results of bid evaluation of a report giving justification for acceptance or rejection of bids at least ten days prior to the award of procurement Contract.

Award of Contract
34. Acceptance of Bid and Award criteria
34.1 The Bidder with technically evaluated lowest financial bid, if not in conflict with any other law, rules, regulations or policy of the Government, shall be awarded the
Contract, within the original or extended period of bid validity.

35. **Procuring Agency's right to vary quantities at time of Award**

35.1 The Procuring Agency reserves the right at the time of Contract award to increase or decrease, the quantity of goods originally specified in the Price Schedule and Schedule of Requirements without any change in unit price or other terms and conditions.

36. **Limitations on Negotiations**

36.1 Save as otherwise provided there shall be no negotiations with the bidder having submitted the lowest evaluated bid or with any other bidder: provided that the extent of the negotiation permissible shall be subject to the regulations issued by the PPRA.

37. **Notification of Award**

37.1 Prior to the expiration of the period of bid validity, the Procuring Agency shall notify the successful Bidder in writing by registered letter that its bid has been accepted.

37.2 The notification of Award shall constitute the formation of the Contract.

38. **Signing of Contract**

38.1 At the same time as the Procuring Agency notifies the successful Bidder that its bid has been accepted, the Procuring Agency shall send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the Parties.

38.2 Within ONE week of receipt of the Contract Form, both the successful Bidder and the Procuring Agency shall sign and date the Contract on the legal stamp paper. The Procuring Agency shall issue Purchase Order on the same date of signing of Contract. If the successful Bidder, after completion of all codal formalities shows inability to sign the Contract then their bid Security/earnest money shall be forfeited and the firm shall be blacklisted minimum for two years for future participation. In such situation the Procuring Agency may make the Award to the next lowest evaluated Bidder or call for re-bidding.

39. **Performance Guarantee**

39.1 On the date of signing of the Contract, the successful Bidder shall furnish the Performance Guarantee/Security in accordance with the Special Conditions of Contract, in the Performance Guarantee/Security Form. The Performance Guarantee will be 5% of the contract amount. The performance security shall be deposited in the shape of deposit at call.

39.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 37 or ITB Clause 38.1 shall constitute sufficient grounds for the annulment of the Award, in which event the Procuring Agency may make the Award to the next lowest evaluated Bidder or call for re-bidding.

40. **Schedule of Requirement**

---

Sheik Zayed Medical Complex, Rahim Yar Khan
40.1 The supplies shall be delivered within 60 to 75 (In case free delivery at consignee’s end/DDP) and 90 to 105 days (In case CIF / C&F / CIP) w.e.f the next date after the date of issue of Purchase Order (without penalty), and with prescribed penalty, as per following schedule of requirement:

<table>
<thead>
<tr>
<th>Mode of Penalty</th>
<th>Mode of Purchase</th>
<th>Delivery Period</th>
<th>Grace Period</th>
<th>Total delivery period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Penalty</td>
<td>Free delivery at consignee’s end/DDP</td>
<td>60 days</td>
<td>15 days</td>
<td>75 days</td>
</tr>
<tr>
<td>Without Penalty</td>
<td>CIF / C&amp;F / CIP (Imports)</td>
<td>90 days</td>
<td>15 days</td>
<td>105 days</td>
</tr>
</tbody>
</table>

40.2 In case of late delivery of goods beyond the periods specified in the Schedule of Requirements, penalty @ 0.1 % per day of the cost not exceeding 10% of the purchase order value for late delivered supply shall be imposed upon the Supplier.

41. Redressal of grievances by the Procuring Agency

41.1 The Procuring Agency shall constitute a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.

41.2 Any bidder feeling aggrieved by any act of the Procuring Agency after the submission of his bid may lodge a written complaint concerning his grievances not later than fifteen days after the announcement of the bid evaluation report under rule 35.

41.3 The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.

41.4 Mere fact lodging of a complaint shall not warrant suspension of the procurement process.

41.5 Any bidder not satisfied with the decision of the committee of the Procuring Agency may lodge an appeal in the relevant court of jurisdiction.

B. General Conditions of Contract (GCC)

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 electro medical equipment or any other machinery or equipment
or item 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 above goods, such as printing of special instructions on the label and packing, design and logo of the Institute/ Hospital, transportation of goods up to the desired destinations and other such obligations of the supplier covered under the Contract.

e. MGCC" mean the General Conditions of Contract contained in this section.

f. "SCC" means the Special Conditions of Contract.

g. The Procuring Agency means the Project Director/Principal, Sheikh Zayed Medical Complex, Rahim Yar Khan.

h. The Procuring Agency’s Country" is the country named in SCC

i. The Supplier" means the individual or firm supplying the goods under this contract.

j. "Day" means calendar day.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Country of Origin

3.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries and all expenditures made under the contract shall be limited to such goods and services.

3.2. For purposes of this clause, "origin" means the place where the goods are produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing or processing.

4. Standards

4.1 The goods supplied under this Contract shall conform to the standards mentioned in the bidding documents/Technical Specifications.

5. Use of Contract Documents and Information

5.1 The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of
performing the Contract.

5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so required by the Procuring Agency.

5.4 The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier.

6. Patent Rights

6.1 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 country.

7. Submission of Samples

7.1 The samples shall be submitted as per detail in ITB 16.3.

8. Ensuring Storage/ Installation Arrangements

8.1 To ensure storage and installation arrangements for the intended supplies, the Supplier shall inform end user for pre-requisites well in time for proper installation. In case the Supplier abides by the given time frame he shall not be penalized for delay.

8.2 In case of late delivery of goods beyond the periods specified in the Schedule of Requirements, penalty @ 0.1% per day of the cost not exceeding 10% of the purchase order value for late delivered supply shall be imposed upon the Supplier.

9. Inspections and Tests

9.1 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.

9.2 For the purpose of inspections and tests of equipment. The Supplier, all reasonable facilities and assistance, shall be furnished to the inspectors at no charge to the Procuring Agency. However, if the Supplier proves an undue delay in conduct of inspection on the part of Procuring Agency, the Supplier shall not be liable for penalty on account of that delay. The cost of such lab tests shall be borne by the Manufacturer/Supplier.

9.3 The Procuring Agency's right to inspect, test and, where necessary, reject the goods after the goods have been installed at Procuring Agency's destinations.

9.4 Nothing in GCC Clause 9 shall in any way release the Supplier from any warranty or other obligations under this Contract.

10. Physical Examination/ Inspection of Goods

10.1 The goods shall be acceptable subject to physical inspection, tests and/or in accordance
with the approved sample as decided by the Procuring Agency.

11. **Delivery and Documents**

11.1 The Supplier in accordance with the terms specified in the Schedule of Requirements shall make delivery of the goods. The details of documents to be furnished by the Supplier are specified in SCC.

12. **Insurance**

12.1 The goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered; hence insurance coverage is Seller's responsibility.

13. **Transportation**

13.1 The Supplier shall arrange such transportation of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Schedule of Requirement.

13.2 Transportation including loading/ unloading of goods shall be arranged and paid for by the Supplier, and related cost shall be inclusive in the Contract price. The addresses of destinations/ offices shall be provided at the time signing of Contract.

14. **Incidental Services**

14.1 The Supplier shall be required to provide the incidental services as specified in SCC and the cost of which should include in the total bid price.

15. **Warranty**

15.1 A warranty of two years will be provided free of cost including parts however in case of high tech equipment if mentioned in the specification, the warranty shall be five years free service and parts at the installation site.

16. **Payment**

16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC. The currency of payment is Pak. Rupees which will be paid after installation and satisfactory report by the Inspection Committee for Duty Delivered Pay (DDP)/free delivery at the consignee end.

16.2 In case of Import cases the payment will be made 100% via establishing the LC at sight and receiving shipping documents/ Bill of lading, Insurance, Inspection certificate of the manufacturer, Country of origin, compliance of International standards of quality as per bid as per INCOTERMS.

17. **Prices**

17.1 Prices charged by the Supplier for goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its bid and shall remain the same till expiry.
of the original bid validity period provided the Procuring Agency's request for bid validity extension.

18    **Id/Contract Amendments**

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

19.    **Assignment**

19.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring Agency's prior written consent.

20.    **Subcontracts**

20.1 The Supplier shall not be allowed to sublet the job and award subcontracts under this Contract.

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

21.1 Delivery of the goods shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements.

21.2 If at any time during performance of the Contract, the Supplier should encounter conditions impeding timely delivery of the goods, 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.

21.3 Except as provided under GCC Clause 8.2, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of liquidated damages.

22.    **Penalties/Liquidated Damages**

22.1 In case of late delivery beyond the presented period, penalty as specified in SCC shall be imposed upon the Supplier/Manufacturer. The above Late Delivery (LD) is subject to GCC Clause 24, including late delivery for reasons beyond control. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 23.

22.2 If the firm provides substandard item and fail to provide the item the payment of risk purchase (which will be purchased by the indenter) the price difference shall be paid by the Firm.

23.    **Termination for Default**

23.1 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 installments 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 8.2; or

b. If the Supplier fails to perform any other obligation 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. For the purpose of this clause: "Corrupt Practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution. "Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Procuring Agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Procuring Agency of the benefits of free and open competition.

24. **Force Majeure**

24.1 Notwithstanding the provisions of GCC Clauses 21, 22, and 23, the Supplier shall not be liable for forfeiture of its Performance Guaranty/ bid Security, or termination/ blacklisting 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. For the purposes of this clause Force Majeure means an act of God or an event beyond the control of the Supplier and not involving the Supplier's fault or negligence directly or indirectly purporting to mis-planning, mismanagement and/or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee of Ministry of Health, constituted for Redressal of grievances, shall examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and shall submit its recommendations to the competent authority. However, 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 reasonable alternative means for performance not prevented by the Force
Majeure event.

25. Termination for Insolvency

25.1 The Procuring Agency may at any time terminate the Contract by giving written
notice of one month time to the Supplier if the Supplier becomes bankrupt or
otherwise insolvent. In this event, termination shall be without compensation to the
Supplier, provided that such termination shall not prejudice or affect any right of
action or remedy which has accrued or shall accrue thereafter to the Parties.

26. Arbitration and Resolution of Disputes

26.1 The Procuring Agency and the Supplier shall make every effort to resolve amicably by
direct informal negotiation any disagreement or dispute arising between them under
and connection with contract.

26.2 If, after thirty (30) days from the commencement of such informal negotiations, the
Procuring Agency and the Supplier have been unable to resolve amicably a Contract
dispute, either party may require that the dispute be referred to the Arbitrator for
resolution through arbitration.

26.3 In case of any dispute concerning the interpretation and/or application of this Contract
shall be settled through arbitration. Secretary, Law, Justice and Human Rights or his
nominee shall act as sole arbitrator. The decisions taken and/or award made by the sole
arbitrator shall be final and binding on the Parties.

27. Governing Language

27.1 The Contract shall be written in English language. Subject to GCC Clause 28, the
version of the Contract written in the specified language shall govern its interpretation. All
correspondence and other documents pertaining to the Contract, which are exchanged by
the Parties, shall be written in English.

28. Applicable Law

28.1 This Contract shall be governed by the laws of Pakistan and the courts of Pakistan shall
have exclusive jurisdiction.

29. Notices

29.1 Any Notice given by one party to the other pursuant to this Contract shall be sent to the
other party in writing and confirmed to other party's address specified in SCC.

A notice shall be effective when delivered or on the notice's effective date, whichever is later.
G: Special Conditions of Contract (SCC)

Special Conditions of Contract shall be concluded between the Procuring Agency and the successful bidder(s) as per specific requirement of the specific Product. In case where there is a conflict between the general conditions of the contract and the special condition of contract, the special condition of contract shall prevail.

Special Conditions of Contract:
(Please see the Specifications for special terms & Conditions)

(Prof. Dr. Mubarak Ali)
Principal
Sheikh Zayed Medical College/Hospital
Rahim Yar Khan
## Sample Collection Form

To be filled by Technical Committee

<table>
<thead>
<tr>
<th>Name of Item</th>
<th>Make/Model</th>
<th>Quantity</th>
<th>Reason</th>
<th>Date of Submission</th>
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</tbody>
</table>

Signature
of Chairman of Purchase Committee
or Authorized Representative

To be filled by Supplier

<table>
<thead>
<tr>
<th>Name of Item</th>
<th>Make/Model</th>
<th>Batch No.</th>
<th>Clarification of the Observation</th>
<th>Dated</th>
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</table>

Signature of Bidder
Performance Guarantee Form

To: Principal Sheikh Zayed Medical College/ Hospital, Rahim Yar Khan

Whereas [Name of Supplier] (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. [number] dated [date] to supply [description of goods] (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 scheduled bank for the sum of 5% of the total Contract amount as a 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/Bank

Address

Date

Note: It should be valid for a period equal to the warranty period The Contractor will be signed / issued after submission of this performance Security.
Manufacturer's Authorization Form

[See Clause 3.1 (a) of the Instruction to Bidders]

To: Principal Sheikh Zayed Medical College/ Hospital, Rahim Yar Khan

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 Supplier/Agent] to submit a bid, and subsequently negotiate and sign the Contract with you against IPB No.93 for the goods manufactured by us. We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

[Signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letter head 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
Contract Form

THIS CONTRACT is made at on ___ day of 20__, between the Principal/Project Director, Sheikh Zayed Medical Complex, Rahim Yar Khan (hereinafter referred to as the "Procuring Agency") of the First Part; and M/s (firm name) a firm having its registered office at (address of the firm) (hereinafter called the "Supplier) of the Second Part (hereinafter referred to individually as party" and collectively as the "Parties").

WHEREAS the Procuring Agency invited bids for procurement of goods, in pursuance whereof M/s (firm name) being the Manufacturer/authorized Supplier/ authorized Agent of (item name) in Pakistan and ancillary services offered to supply the required item (s); and Whereas the Procuring Agency has accepted the bid by the Supplier for the supply of (item name) and services in the sum of Rs (amount in figures and words) cost per unit, the total amount of (quantity of goods) shall be Rs. (amount in figures and words).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

2. The following documents shall be deemed to form and be read and construed as integral part of this Contract, viz: -
   a. the Price Schedule submitted by the Bidder,
   b. the Schedule of Requirements;
   c. the Technical Specifications;
   d. the General Conditions of Contract;
   e. the Special Conditions of Contract;
   f. the Procuring Agency's Notification of Award;
   g. the scope of work;
   h. the Contract; and
   i. the Bid & its clarifications.
   j. the contracted specifications (attached as annexure)

3. In consideration of the payments to be made by the Procuring Agency to the Supplier/ Manufacturer as hereinafter mentioned, the Supplier/ Manufacturer 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 this 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 this Contract at the time and in the manner prescribed by this Contract.

5. [The Supplier] hereby declares that it has not obtained or induced the procurement of any Contract, right, interest, privilege or other obligation or benefit form Government of the Punjab or any administrative subdivision or agency thereof or any other entity owned or controlled by it (Government of the Punjab) through any corrupt business practice.

6. Without limiting the generality of the foregoing, [the Seller/ Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc, paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder’s fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or including the procurement of a Contract, right interest, privilege or other obligation or benefit in whatsoever form from Government of the Punjab, except that which has been expressly declared pursuant hereto.

7. [The Supplier] certifies that has made and shall make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with Government of the Punjab and has not taken any action or shall not take any action to circumvent the above declaration, representation or warranty.

8. [The Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any Contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to Government of the Punjab under any law, Contract or other instrument, be void able at the option of Government of the Punjab.

9. Notwithstanding any rights and remedies exercised by Government of the Punjab in this regard, [The Supplier] agrees to indemnify Government of the Punjab for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to Government of the Punjab in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder’s fee or kickback.
given by [The Seller/Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any Contract, right, interest, privilege or other obligation or benefit in whatsoever form from Government of the Punjab.

10. In case of any dispute concerning the interpretation and/or application of this Contract shall be settled through arbitration. Secretary, Law, Justice and Human Rights or his nominee shall act as sole arbitrator. The decisions taken and/or award made by the sole arbitrator shall be final and binding on the Parties.

11. This Contract shall be governed by the laws of Pakistan and the courts of Pakistan shall have exclusive jurisdiction.

IN WITNESS Whereof the Parties hereto have caused this Contract to be executed at---------------(the place) and shall enter into force on the day, month and year first above mentioned.

Signed/Sealed by the Manufacturer/Authorized Supplier/authorized Agent

1.
2.

Signed/Sealed by Procuring Agency

1.
2.
Bid Form

Date: __________
Tender No.: IPB-93

To: Principal/Project Director, Sheikh Zayed Medical Complex, Rahim Yar Khan

Respected Sir/Madam

Having examined the Bidding Documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer the supply and deliver the goods specified in and in conformity with the said Bidding Documents for the sum of [Total Bid Amount], [Bid Amount in words] 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 shall obtain an unconditional guarantee of a bank in the sum of percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to abide by this bid for a period of [number] days from the date fixed for bid opening under ITB Clause 18 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. Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of bidder
(if none, state "none").

Amount and currency

Dated this _____ day of 20___

Signature
(in the capacity of)
Duly authorized to sign bid for and on behalf of.

Attachment
Price Schedule

(Goods under DDP/Free delivery at consignee's end basis)

Name of Bidder ____________________________________________

Tender No. IPB-93

<table>
<thead>
<tr>
<th>Sr. No. (As listed in invitation of bid)</th>
<th>Name of Item (As listed in invitation of bid)</th>
<th>Make/Model and country of Manufacturer and origin</th>
<th>Specifications (Complete Details)</th>
<th>Qty</th>
<th>Unit Price (Rs)</th>
<th>Sale and other taxes (Specify the type and kind of taxes applied)</th>
<th>Total Cost (Rs)</th>
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Grand Total

Sign and Stamp of Bidder. ____________________________________________

Note: In case of discrepancy between unit price and total, the unit price shall prevail.
Price Schedule

(Goods to be procured under LC basis)

Name of Bidder ____________________________________________________________

Tender No. IPB-93

<table>
<thead>
<tr>
<th>Sr. No. (As listed in invitation of bid)</th>
<th>Name of Item (As listed in invitation of bid)</th>
<th>Make/Model and country of Manufacturer and origin</th>
<th>Specifications (Complete Details)</th>
<th>Quantity</th>
<th>Unit Price (FOB) (foreign currency)</th>
<th>Freight Charges</th>
<th>Insurance</th>
<th>Total Cost (foreign currency)</th>
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</table>

Grand Total

Sign and Stamp of Bidder

*The supplier will mention the Installation period separately and warranty will start from the completion of Installation date. If not mentioned by the supplier it would equal to the period of LC/supply period.*

*Note: In case of discrepancy between unit price and total, the unit price shall prevail. Foreign currency rate will be considered on the date of opening of financial bid as per rate of stat bank.*
DIGITAL RADIOGRAPHY SYSTEM

TECHNICAL SPECIFICATIONS

Full room Digital Radiographic X-ray system.
Recumbent, standing or seated patient position
Ceiling - mounted x-ray tube assembly and digital imaging system.
Motorized multi leaf collimator
Fix Dual flat panel detector for table and chest stand separately
Automatic image positioning through vertical motorization of wall stand

X-Ray Generator:
80 KW or better high-frequency X-ray generator
800 mA at 100 KV.
1 ms shortest exposure time.
Integrated automatic exposure control (three chamber).
Organ programs to be available.

Motorized Multileaf Collimator:
Ceiling-mounted tube assembly support, with tube assembly Multileaf collimator for vertical, oblique, horizontal, and lateral acquisitions Rotation upto +/-40° or more.
Filters to avoid soft radiation
Automatic collimation and cassette and detector sensing. Manual collimation should also be available.

Patient Table:
Height adjustable patient positioning table with six way floating tabletop,
Access the patient from all sides.
Head to toe cassette and detector cover range.
Autotracking during table height adjustment.
Foot paddle for height adjustment of the patient positioning table of the floating tabletop.

Flat Panel Detector (cable less):
Flat panel detector with active image size of 16”x16” or better
Cesium (Csl) scintillator or better
Pixel size 200 μm or better.
Spatial Resolution 2.5 lp/mm or better or DQE 60% or more
Matrix size approximately 2800 x 2800 or better.
14 bits or better detector depth.
Time for data acquisition, transmission and viewing for full image to be 10 sec. or less.

X-Ray Tube:
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Exposure voltage 140 kV or more.
Focal spot 0.6 mm and 1/1.2 mm or better.
Anode heat storage 300 KHU or more
Motorized tube movement for precise imaging.

**Chest Stand:**
Motorized Chest stands with height-adjustable and tiltable Bucky cabinet to house FD and X-Ray cassettes /Detector holder for image acquisition. Chest stand should have moving exchangeable grid for scattered radiation reduction for Pediatric acquisitions. The grid should be removable. The chest stand should have servo / auto tracking i.e., the ceiling stand should move automatically with the height adjustment of the chest stand. Complete with overhead handle for optimum positioning of patient for lateral exposures and lateral patient handles for optimum patient positioning, e.g. during PA thorax exposures.

**Imaging System**
High resolution digital imaging reconstruction. Image display with DICOM network connection, complete with 19 inch color TFT display.

**Digital Radiography System**
Dual core or better microprocessor with at least 2 GB Ram. Storage of 5,000 or more images. Imaging System should be capable of patient and study Administration

**Exposure and post processing**
Image documentation, archiving, display of image markers. Organ program selection and configuration. Image processing functions such as rotate, mirror, zoom, window, filter, insert comment line and stich etc. The system to have SW/HW to attain higher detail contrast (soft tissue and bone) Reduced noise with the multi-scale procedures for images post- processing. DICOM Functions include: Send, print and CD Write. UPS for the digital system 5 KVA for 20 minutes backup.

**ACCESSORIES:**
Lead glass size 1.5 mm or better: size 80 cm x 100 cm.
Compression belt.
Lead Aprons 0.5 mm
Thyroid shield: 0.5 mm pb
Lead goggle and gonadal shields
DICOM 3.0 compliant Grayscale Dry LASER Printer with 3 online sizes.
Should have minimum productivity of 150 films/ hour in mixed sizes.
Printer should be capable of printing 08x10, 10x12, 11x14, 14x14 & 14x17 size films.
Minimum resolution should be10 pixels/mm with 12-bit gradation.
1000 x14x17" Dry LASER films

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UPS
UPS 100 KVA for 20 minutes backup of the whole system. The dry batteries will be included in company warranty.

Manufacture WARRANTY / TERMS & CONDITIONS:
The Manufacturer will undertake to maintain the equipment during the period of warranty which shall be for five years from the date of full functional commissioning with all specified parameter and shall cover labour and parts of all equipment supplied / stated in the contract including non-properties parts accessories transducer batteries etc.

TRAINING:
- 01 week local training for two technicians.
- 01 visit of application specialist before commissioning and 01 visit after proper working of machine.
- Visit of the two Consultants in the manufacturing factory and hospital to see the working of the machine.

SITE PREPARATION/INSTALLATION:
Civil work (Building construction as per required drawing)

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WHOLE BODY MULTI SLICE CT SCAN 128 SLICE

TECHNICAL SPECIFICATIONS

GANTRY
System should be capable of Acquiring /Generating 128 slices per gantry rotation in real time. Gantry bore / aperture to be at least 70 cm or more. Minimum gantry rotation time to be at least 0.35 seconds or better, for 128 slices per 360 degree rotation, for all applications.
All the firms should quote their latest model scanner with shortest rotation time Breath holding time 05 sec or less in cardiac scan.
System should be able to acquire helical OR sequential scan with the gantry tilted from the vertical.
Gantry tilt range must be ≥ 30 degree.
Maximum scan field of view to be at least 50 cm. For Paeds & Children the system should be able to reduce the field of view to 250 mm.
Minimum slice thickness 0.625 mm or better in Helical mode.
Dual Control (including tilt,) of gantry and table from the gantry-housing and console.

TUBE
Heat storage capacity of at least 6 MHU or better. Generator output of up to 550mA or more.
Active collimation during scanning.

GENERATOR
High frequency power generator with minimum power of at least 70 KW or more should be capable of variable kV setting in steps from 80 to 135/140 KVP.
Should have ability to vary the power (mAs) automatically in steps Real-time dose reduction hardware / software and with ECG modulation Iterative dose reduction must be offered.
Low contrast detect ability ( LCD ) calculated on a CATPHAN 20 cm, of 5 mm resolution with a CT No. of 3 HU ( 0.3 % ) or better, contrast difference Scan Length of at least 1.7 meters or more of helical or axial scan in a single acquisition.
Maximum Scan Time 100sec. or better.

DETECTORS
Solid state crystal / ceramic detectors with conversion efficiency (x-ray to signal strength) of nearly 98% latest technology.
Isotropic voxel size of 0.35 mm or better, in all three axis.
Minimum 64 Detectors and detector electronics capable of providing 128 slices per gantry rotation.
Detectors width 38 mm or more.

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COUCH
Dual motorized control (from console and gantry) of table movements in horizontal and vertical axis.
Maximum weight allowed on the couch up to 200 kg or more. Horizontal movement speed up to 100 mm per second.
Single acquisition scan range of at least 1.8 meter.
Scan with at least 0.25 mm accuracy / reproducibility on a 200 kg patient.
Lateral movement table.

CONSOLE COMPUTER
System architecture and operating system must be based on latest technology.
(64 bit RISC or Dual Xenon Processor PC) original.
Multitasking and parallel processing CPU system.
At least 8 GB RAM or more Hard disc capacity for image storage of at least 500 GB or more.
Capable of storing at least 3000 raw data files / rotations or 700 GB raw data / 450000 images in 512 x 512 format.
Reconstruction of at least 25 images FRAMES per seconds or better at 512 x 512 matrix.
Image area display matrix dimensions (1024 x 1024 ).
Console color monitor ( X 02 ), LCD of at least 19 inches, medical grade with maximum viewing angle.
DVD and CD writer

SOFTWARE:
  a. All the latest whole body & cardio-vascular software should be supplied as standard which is available at the time of shipment original with their part No of company.
  b. USER INTERFACE SOFTWARE True isotropic volume acquisition
  c. Prospective and retrospective ECG gated acquisition
  d. Variable Delay algorithm like fixed percent delay (FPD) and fixed offset delay (FOD) or better, for selection of period of least motion in cardiac cycle (temporal resolution of 44 milli second or less will be preferred).
  e. Automated contrast media bolus tracking software.
  f. 3D Reconstruction Display Original Company Software.
  g. Maximum and minimum intensity projections
  h. Multi-planer and curved planer reconstruction
  i. 3D shaded surface display
  j. 3D volume rendering software
  k. 3D virtual endoscopy, colonoscopy with lumen / fillet view /electronic cleansing / auto segmentation of the colon and bronchoscopy.
  l. 3D cone beam correction.

CT ANGIOGRAPHY:
  a. Basic Comprehensive Brain perfusion analysis.

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b. Image reconstruction Automatic real time dose adjustment according to theody attenuation i.e. core 4D dose/longitudinal doks workstation/ 40 boost/ sure
exposure 3D/ organ specific dose modulation or similar.
c. Artifact reduction algorithm.
d. Automatic control of tube current over high and low attenuation areas for
patient dose reduction software for low dose to patient original / certified.
e. Iterative Dose Reduction Software.
f. Bone removal software.
g. Mattel artifact reduction software.
h. Dental CT
i. Dual energy scanning system with blending software.

WORK-STATION: 03 in number with thin client server (work station with 03 license
users) Independent, automatic multimodality, fully functional. All companies will supply
the Work-stations by the manufacturer that they provide world-wide as a standard.
Work-stations will be supplied from manufacturer of CT to ensure similar work flow.

High speed link to operator console on DICOM network

System architecture and operating system
a. Dual processor Xeon
b. 2.66 GHz or more speed
c. 512 cache or more
d. Graphic card and network card

Original Licensed software: Window XP/7/8 or Linux, MS Office 2013, Norton /
equivalent antivirus (current and upgradeable for at least for the time of warranty)
Should have at least one high resolution LCD monitor (medical grade as recommended
by the manufacturer ) of 18 inch or more.

DVD RW (super-drive will be preferred)
DICOM-3 viewer with universal PC display capability (licensed)

WORKSTATION SOFTWARE
(original with certificate) with thin client, server with three concurrent users).

Software up gradation of all existing applications for at least next 05 years will be
provided free of cost. Following software will be provided at the workstation of
the same origin as are being used in USA/EUROPE &JAPAN. 3D Reconstruction
display.

a. UPS 3 KVA (x 03), Branded, dry battery capable of providing 20 minutes of back-
up for workstations (MG, APC, MC, Chloride, Riello, Emerson). The dry batteries
will be included in company warranty.

b. Heavy duty Laser black and white printer (qty: 3) A4 /letter size 2400 dpi or
higher, two paper trays for A4/ letter size media, ( HP, Lexmark, Xerox, CANNON)
network-ready DICOM

c. DICOM 3 ready (multi-vendor and multimodality compatible for send, receive,
achieve, retrieve and print, on main console and workstations).

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UPGRADE-ABILITY

All vendors will quote their latest and best system. The system should have a software upgrade route to higher versions with undertaking of above two by the principal manufacture, that is their latest version been used in USA/EU & Japan.

POWER REQUIREMENT
Three phase with line voltage of 380-440V, 50Hz.

ACCESSORIES:
Programmable, dual head power injector with flow/volume and temperature control. Mounted on mobile base, with 500 syringes of 150 ml capacity and connecting tubes (Medrad, Medtron / Mallen, Nemoto). DICOM 3 ready dry laser camera / imager, Multi-size up to 14 x17 in. (Agfa, Fuji, Kodak/Carestream, Konica) for black and white printing on films including 5000 films. FILM VIEWER (x 08) for images up to 14 x 17 inch with variable light control and shutters for control of viewing area, with 04 x 1 format MEDICANVAS, MAVIA On-line sine wave UPS for whole CT suite, with a minimum back-up time of 30 minute on full load including air-conditioning system. Air conditioners Two Ton each for UPS room office and waiting area lights/fans etc.

Protection devices:
Lead aprons with hangers.
Lead-gloves
Lead goggles
Thyroid Shields all 0.5 mm lead equivalent European & Japanese.
Lead glass for control room, 0.5 mm lead equivalent.
Standard set of Phantoms for calibration of CT
Pediatric scanning package - software and hardware original.
Cardiac defibrillator.
Dedicated Cardiac Monitor for synchronize with cardiac scan.
Pulse oximeter.
ECG machine, multichannel (three channels)
Cardiac Resuscitation trolley completely equipped with all necessary items.

Table Accessories – Table pads, arms rest, patient restraint kit, IV pole, infant cradle, flat head holder, ceiling mounted hand holder patient (original accessories from the vendor) Digital Transcription system for reporting ( hand held units – x 03, and Complete stenotype desktops unit (x 02).

UPS
160 KVA system, Branded, dry battery capable of providing 20 minutes of back-up for CT Scanner (MG, APC, MC, Choride, Riello, Emerson). The dry batteries will be included in company warranty.
Manufacture WARRANTY / TERMS & CONDITIONS:
The Manufacturer will undertake to maintain the equipment during the period of warranty which shall be for five years from the date of full functional commissioning with all specified parameter and shall cover labour and parts of all equipment supplied / stated in the contract including non-properties parts accessories transducer batteries etc.

TRAINING:
- 01 week local training for four technicians.
- 01 visit of application specialist before commissioning and 01 visit after proper working of machine.
- Visit of the two Consultants / biomedical engineer in the manufacturing factory and hospital to see the working of the machine.

SITE PREPARATION/INSTALLATION:
Civil work (Building construction as per required drawing)
Complete Site renovation of CT, Console and UPS room, including lead shielding of the CT room and doors, Air-Conditioning, False ceiling, painting, Antistatic flooring, Electrical DB, Earthing and Power cable from Main Transformer / Hospital. LT Panel Will be the responsibility of the supplier.
The installation will be a turnkey project and any modification in the existing site will be the responsibility of the firm.
The firm will be responsible for complete interface free installation keeping in view the requirement and recommendation of manufacturers and its surroundings to ensure artifacts examinations/procedures.

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DIGITAL ANGIOGRAPHY SYSTEM

TECHNICAL SPECIFICATIONS

Positioning ARMs:
One Ceiling mounted and one Floor mounted C-arm with motorized. Real time display of rotation angulations.
The C-arms should have the possibility of head to toe coverage of the patient without repositioning the patient.
Both-planes should have Flat Detector.
Right anterior oblique I Left anterior Oblique +/- 100° or more for Floor It -27 to +100 Degree for ceiling.
Cranial / Caudal: Minimum + 45 / 45 Degree or more for both planes.
Rotation speed:
10° / sec. or more in LAO I RAO for floor mounted and 8° / sec for ceiling mounted C-arm.
Motorized parking for floor and ceiling mounted C-Arms.
Integrated, computer-aided collision monitoring I Protection I Touch sensor
Programmable auto positioning of selected angulations. (50 or more programmable positions)
Variable source-to-detector distance
Motorized gantry rotation for free positioning of system and table», for optimum patient access.
The C-arm should maintain FD position, isocenter and projection while swiveling gantry around the patient.

PATIENT SUPPORT / TABLE:
Floor mounted examination table for angiography and interventions
Motorized height adjustment with variable speed. Floating tabletop with longitudinal and transverse movements
Left / right pivotal table rotation +/− 90 deg. or more
Patient weight bearing capacity 200 kg or more. Capability to handle additional load (100 kg) in any table position

Accessories:
Arm cradles (pair), Unilateral armrest, infusion bottle holder, Instrument tray.

X-Ray Generator
Microprocessor based high frequency X-ray generator
Output Power 100 KW. Radiographic rating minimum 1000 mA at 100 KV
The system should have capability of digital radiography and fluoroscopy
Continuous/Pulsed fluoro output power of 2 KW or more to ensure good image quality during fluoro at oblique angles
Shortest Exposure time of 1 msec with automatic exposure control

X-RAY Tubes:
Dual/Triple focus X-ray tubes for both planes with anode heat storage capacity of at least 2.0 MHU or better.
Liquid bearing technology for longer durability and quiet operation

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Focus 0.3mm, 0.6mm and 1.0 mm or better for triple focus & 0.4 & 0.8 mm or better for dual focus tube.
Continuous heat dissipation of 2500 W or more.

**FLAT DETECTORS:**
The high resolution dynamic flat panel detector with integrated detachable grid especially designed to fulfill the requirements for diagnostic and interventional radiology.
Large Flat Panel Detector on both planes: size 30 x 30cms or more for both planes.
Pixel size: 200 um or less.
Spatial resolution: 2.5 LP/mm or more.
Image acquisition to be done in 14 bit digitization depth.
Digital imaging system (Acquisition / Fluoroscopy)
High resolution digital imaging system.
Acquisition, storage and display in 1024 x 1024 x 12 bits.
Real time filtering, online edge enhancement, noise reduction (spatial filtration) re-masking, and road map function,
Dynamic real time Pan/Zoom
Manual and automatic pixel shift for DSA studies
Hard Disk/Magnetic Disk Capacity for storage of 50,000 images with 1024 x 1024 x 12-bits matrix
DICOM 3.0 with standard exchange media
The system must have Dicom send, Dicom print and Dicom Query / Retrieve facility.
Digital pulsed fluoroscopy / radiography with 7.5/10 and 15 frames per second in 1024 x 1024 x 12-bits or more for single plane
Display of scene directory for easy selection of any image or scene from the examination room of control room
Variable copper filtration during fluoroscopy and acquisition for radiation protection
The selection of the Cu filters must be automatic by the system based on patient weight / absorption without any user interaction.
Vessel analysis with determination of degree of stenosis, distance measurement and calibration. The system should have catheter-and sphere calibration
Automatic positioning of the c-arm corresponding to reference image and preferably vice versa
Simultaneous display of subtracted and un-subtracted fluoroscopy images. single plane and biplane on flat display monitor for both plane
Overlay fade feature i.e. online. Superposition of active fluoroscopy and reference image.
The system must have online image density (gray scale) correction i.e. Automatic online image density correction of dynamic scenes and single images for clear view in the bright and dark areas of the image.
Facility to review previous studies in the examination room from the patients old CD. The system has the capability for retrieval of angio images back in to the digital imaging system from the CDs and/or the network.
Online Digital subtraction angiography (DSA) with frame rates from 0.5 to 6.0 f/s selectable. Flexible pixel shift automatic manual.

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Digital rotation angiography in 3D effect with 'un-subtracted and dynamic subtracted image display in acquisition with rotating for acquisition in 1024 x 2 matrix 25 f/s or better in single plane.
The system should display subtracted images during acquisition preferably while rotating.
All controls of digital imaging system must be available in the examination as well as control room.
CD RECORDER
CD drive for automatic digital image storing on CD-ROM for off-line data exchange in DICOM 3 format. The system must archive the images/scenes on to the CD in background
MONITORS FOR THE SYSTEM:
Active Matrix TFT monitors with 1024 x 1280 matrix resolution.
Monitors should be ceiling-mounted in the operating/examination room. The ceiling suspension for monitors in the examination room should have room for six monitors.
Two 55 inches active matrix digital TFT monochrome monitors for live images of each plane in the operating/examination room. Brightness of the imaging monitors: 600 cd/m² or more
Two 55 inches or more active matrix digital TFT monochrome monitors for road mapping in the operating/examination room. Brightness of the imaging monitors: 600 cd/m²
19 inches color display monitor for display of images of the workstation in the examination room (Quantity 01).
19 inches active matrix TFT monochrome monitors for live images and road mapping in the control room (Quantity 04).
Brightness of the imaging monitors: 600 cd/m²
Additional Workstation: As recommended by the Manufacturer and being supplied worldwide.
High Performance Windows/Linux based Multimodality/dedicated workplace with 2 x Dual Core 3GHz Pentium Processors with minimum 3GB or more. The workstation to be equipped with graphic board to support 3D applications.
High performance windows XP based multimodality workplace with 2 x Dual core 3 GHz Pentium processors with minimum 3 GB RAM or more and a minimum disk capacity of 140 GB or more 3D reconstruction SW for universal angiography & neuro applications for the reconstruction of 2D tomograms from the projection images.
Interactive 3D reconstruction and visualization in real time of a volume in volume rendering technique, MPR and MIP
Features:
Display of multiple volumes, to switch between un-subtracted and subtracted mode.
Transfer, 3D reconstruction and visualization in one defined protocol within minimum time duration.
Different sets of acquisition and reconstruction protocols to meet the requirements for visualization of vessels, bones, clips and coils.
Reconstruction result can be native and subtracted.
Modification of reconstruction area to allow zoom via reconstruction
Display of the 3D reconstructed image data in the examination room on a monitor in the main ceiling suspension of angio monitors.
Control of 3D-reconstruction SW from the table side control / workstation
The workstation should have multi-modality capability on it or on a separate addition

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workstation in order to display CT/MRI images on it.
The Workstation must have the ability to post process DSA images on the 3D workstation. If DSA post-processing is not possible on 3D Workstation, then additional workstation for DSA post processing is to be offered.
Special package to provide soft-tissue cross-sectional imaging in the interventional suite. It should suite and support Neuro-radiologist during interventional procedures in the angiography suite with both endovascular and non endovascular.
This package should provide excellent soft tissue image quality (in 512 matrix) for neuro and body imaging. Neuro images in 512 x 512 matrix are to be reconstruction minimum time. It should be possible to visualize a density difference of 10HU (Hounsfield Units, less preferred) of an object 10mm in size in a Thick-MPR display. (Measured with a CATPHAN CT phantom).

ACCESSORIES:
Surgical shadow-less light ceiling suspended.
Ceiling suspended Lead Glass for Upper Body Radiation Protection
Lower body radiation protection flaps.
1 x Fully programmable latest model contrast medium injector.
One Postscript level Network Laser Printer for taking image printouts on paper.
This printer is to be connected with the Main Digital imaging System. Paper for 500 prints should be delivered with the printer.
1000 write-able CDs should be delivered with the system
Lead Glass Window size 2 x 1 meter or more. Pb equivalence 2.1mm or better.
6 x Pb aprons, double sided. Pb equivalence front 0.5mm; back 0.35mm.
6 x Thyroid shields ad 6 x Pb Glasses.
Intercom for communication between control and exam room.
DICOM Laser Camera with 14-x17 inches cassette formats.
UPS compatible for the whole system with back-up time of 10 minutes for fluoro ad cine acquisition.
2x firm viewer for images up to 14 x 17 with variable light control and shutters.

Optional:
Workstation should create visualization and fading between the live / acquired 2D fluoro image and the matching 3D reconstructed image by the workstation for vessels / coil/bone. It should allow to overlay the colored 3D volume with regular/acquired fluoro as well as with subtracted fluoro and acquisition series on the display of the workstation. Thus this information is available in parallel to the regular or subtracted fluoro or acquisition.
Simultaneous display of subtracted and un-subtracted fluoroscopy images for single plane and biplane.
Additional display i.e., monitor per plane is to be included and these monitors are to be installed with the remaining monitors in the examination room.
Any other latest software available with the company should be offered as option which will not be considered as reason of rejection.

UPS

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160 KVA system, Branded, dry battery capable of providing 20 minutes of back-up for Digital Angiography (MG, APC, MC, Chloride, Riello, Emerson). The dry batteries will be included in company warranty.

Manufacture WARRANTY / TERMS & CONDITIONS:
The Manufacturer will undertake to maintain the equipment during the period of warranty which shall be for five years from the date of full functional commissioning with all specified parameter and shall cover labour and parts of all equipment supplied / stated in the contract including non-properties parts accessories transducer batteries etc.

TRAINING:
- 01 week local training for four technicians.
- 01 visit of application specialist before commissioning and 01 visit after proper working of machine.
- Visit of the two consultants / biomedical engineers in the manufacturing factory and hospital to see the working of the machine.

SITE PREPARATION/INSTALLATION:
Civil work (Building construction as per required drawing)
Complete Site renovation of Angiography, Console and UPS room, including lead shielding of the Angiography room and doors, Air-Conditioning, False ceiling, painting, Antistatic flooring, Electrical DB, Earthing and Power cable from Main Transformer / Hospital. LT Panel Will be the responsibility of the supplier.
The installation will be a turnkey project and any modification in the existing site will be the responsibility of the firm.
The firm will be responsible for complete interface free installation keeping in view the requirement and recommendation of manufacturers and its surroundings to ensure artifacts examinations/procedures.

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