TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/SPP/SCF/16/2019-2020

On behalf of President of India, Sr. Head Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites on line quotations for the following:

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<td>SHAR/SPP/2019E12613 01 e-procurement [Single Part basis]</td>
<td>SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF HIGH ENERGY X-RAY DIGITAL IMAGING SYSTEM</td>
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Last Date for downloading of tender documents: 14.04.2020 at 12:00 hrs.
Due Date for submission of bids online: 14.04.2020 at 12:00 hrs.
Due Date for Bid Sealing on: 14.04.2020 at 12:01 hrs. to 14.04.2020 at 16:00 hrs.
Due Date for Open Authorization: 14.04.2020 at 16.01 hrs. to 16.04.2020 at 17:00 hrs.
Due Date for opening of tenders: 17.04.2020 at 14:30 hrs.

Instructions to Tenderers:

- Tender fee & EMD not applicable for tenders submitted through EGPS

01. For full details/scope of work and terms and conditions etc., please see the enclosed annexures.

02. Interested tenderers can download the e-tender from ISRO e-procurement website https://eprocure.isro.gov.in and submit the offer online in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.

03. Tender documents are also available on ISRO website www.isro.gov.in, ISRO e-procurement website https://eprocure.isro.gov.in and SDSC SHAR, Sriharikota website www.shar.gov.in. The same can be downloaded and offer submitted on line in the e-procurement portal.

04. Quotations received after the due date/time will not be considered.

05. The tender documents are available for download upto 14.04.2020 at 1200 hrs. and last date for submission of tenders on line 14.04.2020 at 1200 hrs. and Tender Opening on 17.04.2020 at 14:30 hrs.

06. Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.

DT: 18.03.2020
Sr. HEAD, PURCHASE AND STORES
REQUEST FOR PROPOSAL

For

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING

OF

HIGH ENERGY X-RAY DIGITAL IMAGING SYSTEM

Satish Dhawan Space Centre SHAR
Indian Space Research Organization
Sriharikota - 524 124, A.P
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# HIGH ENERGY X-RAY DIGITAL IMAGING SYSTEM

SDSC SHAR, ISRO

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PROPOSAL DOCUMENT, CLARIFICATION AND ADDENDUM

Proposals are invited from the interested Suppliers for the enclosed scope of work.

The RFP document is organized in four sections as follows.

Section –A General Terms and Conditions of the Contract
Section –B Scope of Work
Section –C Technical Specifications
Section –D Annexure

Title of the Entity: SDSC SHAR, SRIHARIKOTA

Title of the proposal: “HIGH ENERGY X-RAY DIGITAL IMAGING SYSTEM”.

Date of Public Notification issued:

Last Date of purchase / downloading tender Document:

Last date of submission of tender documents:

Place of submission of tender documents: SDSC SHAR, Sriharikota

1. PROPOSAL DOCUMENT

a) One set of proposal document along with the drawings is issued. Bidder shall sign and stamp each page of tender as token of his acceptance & submit along with his offer. Document shall be scanned and uploaded in e-procurement portal. In case it is not possible to upload due to higher file size, hard copy of the balance documents (without any price figures) shall be submitted physically before due date.

b) Transfer of tender document issued to one Bidder to another is not permissible.

c) Tender documents shall remain the property of Department and if obtained by one intending Bidder shall not be utilized by another without the consent of the Department.

d) The proposal shall be completely filled in all respects and shall be submitted together with requisite information. Any offer incomplete in any particulars is liable for rejection.

e) Bidders shall set their quotations in firm figures and without qualifications or variations or additions in the terms of the Tender documents. Proposal containing qualifying expressions such as "subject to minimum acceptance" or "subject to prior sale" or any other qualifying expressions or incorporating terms and conditions at variance with the terms and conditions incorporated in the Tender documents are liable to be rejected.
f) Cost quoted shall be firm and fixed.

g) Price maybe quoted in Indian National Rupee or foreign currency as applicable.

h) Satish Dhawan Space Centre – SHAR (SDSC-SHAR) Sriharikota is declared as prohibited place under official secrets act 1923. Hence during execution of site works necessary security requirements enforced by the department from time to time shall be followed strictly.

i) Defects in the material like fractures, cracks, blow holes, laminations, pitting, etc., are not allowed.

j) During the erection, testing and commissioning of structure at site in Sriharikota, the supplier has to make his own arrangements for boarding, lodging and transportation of his men and materials. However, subjected to availability, hostel accommodation may be provided by the Purchaser (SDSC SHAR) on chargeable basis.

k) Free electricity and water will be provided by the Purchaser (SDSC SHAR) for the erection, testing and commissioning works at the site. Bidder shall take into this while quoting the price.

l) Tools and tackles, other than those mentioned under free issue items, required shall be arranged by the party.

m) Before starting the site work (at SDSC SHAR), the party shall provide insurance as per workman compensation act to all his personnel working at site in Sriharikota against accidents. Till commissioning of structure, the safe storing and handling of structure is in the scope of supplier. Insurance for the same shall be borne by the party.

n) Quote shall be based on DDP / DAP Sriharikota in case of foreign supplier and FOR Sriharikota in case of Indian supplier.

o) All applicable taxes (like CGST/SGST/IGST/UGST, etc.) and duties applicable shall be indicated clearly in quotation.

p) Transportation & Transit Insurance are fully in the scope of supplier and the same shall be borne by the party.

q) Necessary care shall be taken during erection and commissioning of Digital Imaging system at our site. Any damage to the property of Department shall be adequately compensated by the Party.
2. **ADDENDA /CORRIGENDA**

Addenda/corrigenda to the tender document may be issued by SDSC SHAR prior to the date of opening of the tenders, to clarify or reflect modifications in the contract terms and conditions.

Such addendum/corrigenda will be distributed to each firm or person who had purchased the tender documents.

2.1. **AMBIGUITY**

Should there be any ambiguity or doubt as to the meaning of any of the tender clause/condition or if any further information is required, the matter shall be immediately brought to the notice of Sr. Head, Purchase & Stores, SDSC SHAR in writing for necessary clarifications prior to the opening of the tenders.

3. **PREPARATION OF BIDS**

3.1. **SITE VISIT**

a) Bidders can visit and examine the site and its surrounding to familiarize themselves of the existing facilities and environment and may collect all other information which he may require for preparing and submitting the Bid and entering into the tender if required.

Bidders shall visit within 15 days from the date of tender enquiry.

b) Claims and objections due to ignorance of existing conditions or inadequacy of information will not be considered after submission of the Bid and during implementation.

3.2. **VALIDITY OF OFFER**

a) Bid shall remain valid for acceptance for a period of six months from the due date of submission of the Bid.

b) The Bidder shall not be entitled during the said period to revoke or cancel his Bid or to vary the Bid except and to the extent required by Department in writing.

c) Bid shall be revalidated for extended period as required by Department in writing.
d) In such cases, unless otherwise specified, it is understood that validity is sought and provided without varying either the quoted price or any other terms and conditions of Bid finalized till that time.

**3.3. COST OF BIDDING**

All direct and indirect costs associated with the preparation and submission of Bid (including clarification meetings and site visit, if any), shall be to Supplier's account and the Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bid process.

**3.4. PROJECT MONITORING**

a) Bidder shall provide details of project team.

b) Party shall depute their Project team / engineers for meeting to review the status and discuss/ resolve minor issues related to project execution at our site based on mutual agreement on mutually agreeable dates.

**3.5. APPLICABLE LANGUAGE**

The Bid and all correspondence incidentals to and concerning the Bid shall be in the English Language. For supporting document and printing literature submitted in any other language, an accurate English Translation shall also be submitted. Responsibility for correctness in translation shall lie with the Supplier.

**3.6. ARRANGEMENT OF BID**

The Bid shall be neatly presented on white paper with consecutively numbered pages. *It should not contain any terms and conditions which are not applicable to the Bid.*

The Bid and all details submitted by the Supplier shall be signed and stamped on each page as token of acceptance by a person, legally authorized to enter into agreement on behalf of the Supplier. Corrections/ alteration, if any, shall also be signed by the same person. Supplier shall submit Power of Attorney in favor of the person who signs the Bid and subsequent submissions on behalf of the Supplier.
Purchaser will not be bound by any Power of Attorney granted by the Supplier or changes in the constitution of the firm made subsequent to submission of the Bid or after the award of the contract. Supplier may however, recognize such Power of Attorney and changes after obtaining proper legal advice, the cost of which will be borne by the Supplier.

The cancellation of any document such as Power of Attorney, partnership Deed etc should be communicated by the Supplier to the Purchaser in writing well in time, failing which Purchaser shall have no responsibility or liability for any action taken by Supplier on the strength of the said documents.

Should the Supplier have a relative or relatives or in the case of firm or company one or more of its shareholders or a relative or relatives of the shareholder(s) employed in a senior capacity in Purchaser's organization, the authority inviting Bids shall be informed of the fact at the time of submission of the Bid, failing which the Bid may be disqualified or, if such fact subsequently comes to light, Purchaser reserves the right to take any other action as it deems fit in accordance with any applicable law, Rules, Regulations of the like in force for the time being.

3.7. SCHEDULE OF PRICES

The schedule of prices shall be read in conjunction with all the sections of proposal document.

For Lump sum contract, the lump sum prices quoted by the Supplier shall be firm and fixed for the completion of the work, unless stated otherwise. The price must be filled in the format for ‘Schedule of Prices’ – Annexure-I in section D.

3.8 DOCUMENTS COMPRISING THE BID

This is e-procurement tender. All the documents need to be scanned and attached to the bid under “documents solicited from Vendor” form.

a) Offers shall be sent online only using standard digital signature certificate with
encryption / decryption. The tenders authorized online on or before the open authorization date and time only will be considered as valid tenders even though the bids are submitted online.

b) The tenderer must authorize bid opening within the time stipulated in the schedule by SDSC SHAR. Otherwise the online bid submitted will not be considered for evaluation.

c) Prices shall be mentioned in the space / column provided in the ISRO e-procurement portal only for such purpose.

d) Physical copy of the bid will be accepted only in case if the file size is bigger and not possible to upload the same. In such case, the hard copy shall be submitted within due date. Documents received after due date will not be considered.

e) Prices quoted should be on the basis of F.O.R. Sriharikota.

f) The purchaser will not pay separately for transit insurance and same shall be included in the cost quoted by the Bidder.

g) All risks in transit shall be exclusively borne the contractor and the purchaser shall pay only for such items as are actually received in good condition in accordance with the purchase order.

h) Bids duly filled in by the Bidder should invariably be submitted as stipulated in the e-procurement portal.

i) Department reserves the right to reject any or all the Bids without assigning any reasons thereof.

3.8.1) Bid Evaluation

a) The bidder shall provide all the relevant data / information / details required for evaluating the bid technical and commercially in the specific formats enclosed with the tender. Apart from this, Bidder is free to add any other relevant information.

b) During evaluation, Department may request Bidder for any clarification on the bid / additional documents / information required. Bidder shall submit all clarifications / additional documents / information requested in original. If not submitted within the stipulated time department has right to reject such bids.
c) Techno-commercial discussion shall be arranged with Bidder, if needed. Bidder shall depute his authorized representatives for attending discussions.

d) The complete scope of work is defined in the Tender document. Only those Bidders who undertake total responsibility for the complete scope of work as defined in the Tender document only will be considered.

e) In case Bid does not fully comply with the requirement of Tender document and the bidder stipulates deviations to the clauses of the tender, which are unacceptable to the Department, the Bid will be rejected.

f) Performance of Bidder on similar nature of works executed / under execution shall be taken into consideration before selecting the Bidder for opening his price bid.

g) The time schedule for completion is given in the Tender document. Bidder is required to confirm the completion period unconditionally.

h) Department shall not be obliged to furnish any information / clarification to unsuccessful bidder as regard non acceptance of their Bids.

i) Overall lowest offer will be considered for placement of Order.

4. EXCLUSION OF TENDERS

The following tenders shall be summarily rejected from the procurement process:

a) Tenders of vendors, who have been removed from the vendor list or debarred from having business dealings.

b) The tenders that materially depart from the requirements specified in the tender document or which contain false information.

5. DRAWINGS

a) Each drawing submitted by the Bidder (after placement of Order) shall be clearly marked with the following details.

i. Name of the Owner: Satish Dhawan Space Centre, ISRO

ii. Project Title: High Energy X-Ray Digital Imaging System for NDT Facility, SPP

iii. Purchase Order No:
iv. Title of the Drawing clearly identifying the system, equipment or part.

v. Drawing, Revision Number and Date.

vi. Name of the Bidder:

vii. Drawings duly signed in "checked" and “approved” columns.

viii. Scale to which the drawing is drawn.

ix. Cross references to all relevant drawings.

x. All relevant notes to the drawing:

   All notes necessary for understanding and execution of work shown on a
drawing shall be presented on the same drawing.

xi. All legends to all notations.

xii. Details of revisions carried out

xiii. Bill of materials shall be tabulated, wherever required.

xiv. All titles, markings and writings on the drawing shall be in English

xv. All the dimensions shall be in metric units.

b) If standard catalogues are submitted, the applicable items shall be highlighted therein.

c) The drawings shall indicate all dimensions and details of equipment, materials of
   construction etc.

d) For all revisions of the drawing, Bidder shall ensure that all revisions are clearly
   encircled with revision numbers marked on the drawing.

e) Bidder shall also ensure that general details of revisions are indicated for each
   revision in the revision block of the drawing along with the date and signed by the
   approving authority.

6. PUBLICITY RELATING TO TENDERS

a) Advertisements, press release or other specialized publicity documents, which are
   related to or reveal the existence of a tender and are intended by the Bidder for public
   distribution and / or the press, broadcasting, or television, shall be cleared/approved
   by the Department.

b) The Department may direct the Bidder to withhold such publicity or to require
   modifications to the publicity material. The Bidder shall comply with such direction.
# 7. MINIMUM CRITERIA FOR QUALIFICATION

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<td>Tenderer / OEM should have at least 3 years of experience in the supply and erection &amp; commissioning of X-Ray Digital Imaging system.</td>
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<td>Average annual financial turnover of the tenderer during the last three years, should not be less than Rs. 3.0 crores INR or equivalent amount in foreign currency and it should be supported by Audited Annual Financial Accounts Report (Last three years balance sheet / profit or loss account statements shall be enclosed).</td>
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<td>7.3.</td>
<td>Experience of having successfully completed similar works of &gt; 2.0 crore INR or equivalent amount in foreign currency, in a single order value or two orders with 1.5 crore each or three orders with 1.0 crore each. SDSC SHAR reserves right to inspect the manufacturer site for validation/verification.</td>
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<td>Latest solvency certificate from a scheduled bank for a value of 75 lakhs.</td>
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<td>7.5.</td>
<td>Copies of the completion certificate/performance certificate and one reference for contact from your client organization shall be furnished. Performance demonstration of similar kind of machine supplied by tenderer at manufacturer site shall be arranged, if called. Purchaser reserves right to evaluate vendor &amp; its sub contractor capability to supply X-Ray Digital Imaging system to this tender specification and reject, if not capable.</td>
<td></td>
</tr>
<tr>
<td>7.6.</td>
<td>Tenderer shall submit other information in the enclosed vendors</td>
<td></td>
</tr>
</tbody>
</table>
evaluation format. The bid submitted without the evaluation format will not be considered for evaluation.

*if YES please support with valid documents as proof.

**Similar works means Digital Imaging system supplied for X-Ray radiography applications.

8. DETERMINATION OF RESPONSIVENESS

The bid which does not satisfy the pre-qualification criteria as mentioned above (refer point no. 7) shall summarily be rejected and shall not be considered for further evaluation. SDSC SHAR will scrutinize bids to determine whether the bid is substantially responsive to the requirements of the tender documents. For the purpose of this clause, a substantially responsive bid is one which inter-alia conforms to all the terms and conditions of the entire Tender document without any deviations and reservations. The decision of purchaser shall be final in this regard.

9. Vendor Evaluation Format

SDSC SHAR seeks response to the following questionnaire for assimilating data which would be used for evaluating the capability of the vendor for executing the referred work. Hence, the vendor is requested to provide only genuine data and any discrepancy found at a later point of time may result in rejection of the vendor from purchase process. Furnishing of data cannot be construed as automatic qualification for participation in the tender. Questionnaire should be signed by a responsible and authorized person of the Company / Agency.

9.1. For Indigenous vendors

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Vendor Response</th>
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<tbody>
<tr>
<td>1.</td>
<td>Name of the company</td>
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<td>2.</td>
<td>Type of the Company</td>
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<td>(Proprietary/ Pvt. Ltd/Public Ltd/ Joint Venture/Consortium)</td>
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<td>S. No</td>
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<td>3.</td>
<td>If Company is Consortium please provide the signed copy Consortium Agreement document.</td>
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<td>4.</td>
<td>Registration number &amp; certificate</td>
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<td>5.</td>
<td>Name &amp; Address of the Office of the Chief Executive of the Company</td>
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<td>6.</td>
<td>Contact person for this tender with name &amp; address and contact number</td>
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<td>7.</td>
<td>Locations of the Branches of Company (if any)</td>
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<td>8.</td>
<td>From which year the Company is in operation</td>
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<td>9.</td>
<td>Current Annual turn-over of the company</td>
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<td>10.</td>
<td>IT returns for the last 3 years</td>
<td>:</td>
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<td>11.</td>
<td>The Profit &amp; Loss Account details for the last 3 years which is duly audited and Submitted as part of the Annual Report.</td>
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<td><strong>In Rs. Lakhs only</strong></td>
<td><strong>2015-16</strong></td>
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<td>Total assets (i)</td>
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<td>Current assets (ii)</td>
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<td>Total liabilities (iii)</td>
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<td>Current liabilities (iv)</td>
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<td>Net Worth (i-iii)</td>
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<td>Working capital (ii-iv)</td>
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<td>Turnover ` in lakhs</td>
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<td>Profit/Loss in Rs. lakhs</td>
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<td>12.</td>
<td>The major lines of business:</td>
<td>:</td>
</tr>
<tr>
<td>S. No</td>
<td>Description</td>
<td>Vendor Response</td>
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<td>13.</td>
<td>Details of availability of design and analysis software</td>
<td>Software</td>
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<td>14.</td>
<td>Details of availability of machinery and Testing equipments</td>
<td>Machine Type</td>
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<td>15.</td>
<td>Manpower details (technician, Supervisor, QA, Inspection)</td>
<td>Description</td>
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<td>Admin. &amp; Acct.</td>
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<td>Design &amp; Analysis</td>
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<td></td>
<td>Workmen (floor)</td>
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<td>Supervisor</td>
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<td>16.</td>
<td>The major customers for whom similar works are provided (Enclose copies of the Purchase Orders)</td>
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<td>17.</td>
<td>Any customers feedback on the services which is in writing (Pl. enclose copies)</td>
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<td>18.</td>
<td>Shop floor area &amp; Handling system availability</td>
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9.1.1 Details of last 5 years experience of contractor in executing similar type of work which are completed
<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Full postal address of the client with Contact Person</th>
<th>Description of the work</th>
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<th>Completion Time as per PO</th>
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</table>

Note: In order to consider as valid experience, all the experience has to be supported with the completion certificate and purchase order

9.1.2 Details of present works being executed by the contractor

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Full postal address of the client with Contact Person</th>
<th>Description of the work</th>
<th>Value of the work (Rs. in Lakhs)</th>
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Note: copy of purchase orders may be enclosed.

Signature of Authorized Person with Seal

9.2 For foreign vendors

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Vendor Response</th>
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<tbody>
<tr>
<td>1.</td>
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<td>Name &amp; Address of the Chief Executive of the Company</td>
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<td>6.</td>
<td>Contact person for this tender with name &amp; address and contact number</td>
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<td>7.</td>
<td>Do you have any Indian Agent (If YES) please provide percentage of Agency Commission.</td>
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<td>8.</td>
<td>Name &amp; Address of the India Agent details of contact person</td>
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<td>Locations of the Branches of Company (if any)</td>
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<th>2016-17</th>
<th>2017-18</th>
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<td>Currency ( )</td>
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<td>Total assets (i)</td>
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<td>Net Profit/Loss</td>
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| 13. | The major lines of business |

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HIGH ENERGY X-RAY DIGITAL IMAGING SYSTEM  
SDSC SHAR, ISRO
14. Details of availability of design and testing equipment analysis software:

<table>
<thead>
<tr>
<th>Software</th>
<th>No. of licenses</th>
<th>Persons familiar to work on software</th>
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15. Manpower details:

- (technician, supervisor, qa, inspection)

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<tr>
<th>Description</th>
<th>Qty</th>
<th>Remarks</th>
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<tr>
<td>Admin. &amp; Acct.</td>
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16. The major customers for whom similar items were supplied (Enclose copies of the Purchase Orders):

17. Any customers feedback on the services which is in writing (Pl. enclose copies):

18. Shop floor area & Handling system: availability

9.2.1 Details of last 5 years experience of contractor in executing similar type of work which are completed:

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Note: In order to consider as valid experience, all the experience has to be supported with the completion certificate and purchase order.
### 9.2.2 Details of present works being executed by the contractor

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</table>

*Note: copy of purchase orders may be enclosed.*

**Signature of Authorized Person with Seal**
SECTION - A

GENERAL TERMS AND CONDITIONS OF CONTRACT
1. INTRODUCTION

SDSC SHAR invites tenders in sealed covers from reputed firms with proven ability to “Supply, installation, testing and commissioning of High Energy X-Ray Digital Imaging system at our site in Solid Propellant Plant, SDSC SHAR, Sriharikota, India” as per the scope and specifications.

2. SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

The detailed scope of work and technical specifications is given in Section B & C of RFP document. The general terms and conditions are given below.

3. SUPPLIER's OBLIGATIONS & FUNCTIONS

3.1. SPECIFICATIONS AND DRAWINGS

The Supplier shall execute the works in compliance with the provisions of CONTRACT, good engineering practices and code requirements.

3.2. APPROVAL OF TECHNICAL DOCUMENTS / DRAWINGS

Supplier shall prepare and submit to Purchaser for approval following documents and drawings:

3.2.1. Drawings of equipment and Auxiliary sub- system supplied by the party.

3.2.2. Quality Assurance Plan (QAP): The QAP shall list down various stages of inspection and inspection agency namely supplier quality Control agency & 3rd party inspection agency, if engaged. Elaborate Quality Assurance Plan (QAP) is to be prepared & furnished for review & approval

3.2.3. Layout drawings

3.2.4. Fabrication drawings

3.2.5. Erection Sequence Schedule (DESS) along with erection drawings.

3.2.6. No activity shall be executed unless Purchaser’s approval is obtained. The above documents / drawings shall be submitted in a format approved by Purchaser. Quality Assurance Plan shall be strictly in accordance with Quality Control Manual and Formats to be provided after the award of CONTRACT.
3.3. DESIGN & SUPPLY OF EQUIPMENT

3.3.1. The supplier shall provide overall general arrangement of the machine with all major dimensions.

3.3.2. The details / designs and GA drawings given in the tender for various systems / equipments are of minimum requirement and are for guidance only. Contractor is free to modify / improve / redress the design if required to meet the guaranteed performance of the systems / equipments being supplied. Design and fabrication drawings of the machine tool and auxiliary systems shall be prepared and sent by the Bidder for scrutiny /review/clearance by Purchaser. The Bidder shall incorporate necessary changes/revisions in the design based on the suggestions made by the Purchaser or its authorized representatives and shall submit the drawings for clearance prior to undertaking fabrication/manufacturing. Scrutiny /review/clearance of the drawings by SDSC, SHAR shall not absolve the responsibility of the Bidder from proper performance of the machine and from the guarantee/warranty clauses. However, any modification / improvement shall be carried out after approval by the Purchaser.

3.3.3. Supplier shall carry out detailed engineering, manufacture / procure and supply the equipment in accordance with the scope, technical specifications and terms & conditions of contract.

3.3.4. Any item which may not have been specifically mentioned herein but are needed to complete the equipment / system shall also be treated as included and the same shall also be supplied and erected at no extra cost, unless otherwise specifically excluded as indicated.

3.3.5. Supply of bought out items shall be as mentioned in the technical bid.

3.3.6. All these goods or material shall be supplied or used shall be new and of first quality. Where imported or partly imported goods or material are offered or intended to be used, the fact must be specifically stated and brought to the notice of Purchaser.
3.4. **INSPECTION AND TESTING**

3.4.1 The supplier shall identify various stages of inspection and quality control of the system including sub systems, components and bought out items etc., and inform the same to SDSC, SHAR in advance. The approved QAP shall be followed during course of Manufacture, Erection & Testing.

3.4.2 Purchaser reserves the right to inspect all phases of Supplier’s operations through its representatives and / or third party inspection agency approved by the Purchaser. Therefore, it is the responsibility of the supplier to provide the necessary support for the inspection agency and get the works inspected at all stages of work as identified in quality assurance plan. The presence or absence of a Purchaser’s representative does not relieve the Supplier of the responsibility for quality control in all phases of the work. In the event that any of the work being done by the Supplier or any Sub-Supplier is found by Purchaser’s representatives to be unsatisfactory or not in accordance with the drawings, procedures, specifications, and standards the Supplier shall, upon verbal notice of such discrepancy or deficiency, take immediate steps to revise the work in a manner to conform to the relevant drawings, procedures and specifications. The Supplier shall carry out required supervision and inspection as per Quality Assurance Plan and furnish all assistance required by the Purchaser in carrying out inspection work during this phase.

3.4.3 The authorized inspectors of the purchaser shall have access to the premises of the supplier and its sub-contractors at all reasonable times. All the equipments, instruments, tools that are necessary for the inspection shall be provided by the supplier on demand by purchaser’s own inspectors or a third party authorized by purchaser. Inspection by purchaser’s own inspectors or by third party authorized by purchaser shall not absolve the responsibility of the supplier from proper performance of the machine and from the guarantee/warranty clauses stipulated in the contract.

3.5. **DELIVERY AND STORAGE**

3.5.1 Dispatch Instructions given in the Contract shall be strictly followed. Failure to comply with the instructions may result in delay in payment apart from imposing any other charges as may be deemed to fit.
3.5.2 The Supplier shall be responsible for transporting all the equipment to site, unloading and storage. No equipment shall be delivered without obtaining dispatch clearance from Purchaser. All the equipment shall be properly packed to avoid any damage during transportation / handling / storage.

3.5.3 Party shall undertake the responsibility of the machine and its components during transportation to Sriharikota and during erection, testing and commissioning of the same at suitable location identified by SDSC, SHAR and until handing over the machine to SDSC, SHAR after its acceptance. SDSC, SHAR will provide sheltered area for storage of the machine and its components. Supplier shall take proper care while storing the equipment and shall provide watch and ward at his own cost.

3.5.4 First fill of hydraulic oil, lubricating oil, coolant oil & other consumables as required are to be provided in seal packed at purchaser site.

4. INSTALLATION

4.1. GENERAL

4.1.1 Supplier’s staff shall include adequate number of competent erection engineers with proven experience on similar works to supervise the erection works and sufficient skilled, unskilled and semi-skilled labour to ensure completion of work in time.

4.1.2 Supplier’s erection staff shall arrive at site on date agreed by Purchaser. Prior to proceeding to work, Supplier shall however, first ensure that required/sufficient part of his supply has arrived at site.

4.1.3 EOT crane will be made available by purchaser in the building where High Energy X-Ray Digital Imaging system is to be installed. This EOT crane may be used for installation work.

4.1.4 50 t capacity EOT Crane, Material handling equipments viz. 3, 5 & 12 ton Forklift, 15 & 12 ton hydra systems, 300 kg capacity scissor lift, 1 ton capacity pallet truck etc. available with purchaser will be provided free of cost subjected to availability & approval.

4.1.5 Special equipments / Material handling equipments other than above mentioned equipments required for erection work shall be arranged by the supplier.
4.1.6 Piping / cable trench / embedded plate etc. required in the building shall be made available by purchaser.

4.1.7 Purchaser will make ready the machine foundation, trenches and provision of water supply to a place identified near the building as per the details furnished by the party.

4.1.8 Erection of equipment may be phased in such a manner so as not to obstruct the work being done by Other Suppliers and / or operating staff that may be present at that time.

4.1.9 During erection, Purchaser's engineer will visit site from time to time with or without Supplier’s engineer to establish conformity of the work with specification. Any deviations, deficiencies or evidence of unsatisfactory workmanship shall be corrected as instructed by Purchaser.

4.1.10 Tank, pipe flushing / purging is in supplier scope.

4.1.11 Supplier shall carry out work in a true professional manner and strictly adhere to the approved drawings. Any damage caused by Supplier during erection to new or existing building shall be made good at no extra cost to Purchaser.

4.2 SETTING OUT, LEVELLING AND GROUTING OF EQUIPMENT

4.2.1 Supplier shall check the civil works where the equipment is to be erected in advance for their correctness / conformity to the approved drawings for erection of equipment with respect to their lines, levels, pockets, openings, cut outs etc. and shall notify Purchaser of any major deviation.

4.2.2 Supplier shall mark precisely the centre lines and datum reference on civil works where the equipment is to be erected with reference to benchmark given by Civil Supplier. Any minor adjustment necessary to structure (on which equipment is to be erected) for making them plumb and level shall be carried out by Supplier at his cost.

4.2.3 All the grout for equipment shall be carried out using non-shrinkable grout. Surfaces receiving grout shall be prepared to receive grout. All block outs for pipes (puddle pipes), sleeves etc. shall be grouted by using cement concrete of the same grade as that of the parent structure. All associated civil works such as cutting of re-bar,
chipping or dressing of foundation or widening openings in R.C.C. Work and brick work, drilling holes in concrete work or brick work shall be carried out by Supplier as part of the scope of contract.

4.3. RECORDS

4.3.1 Supplier shall maintain records pertaining to the quality of erection work in a format approved by Purchaser. Whenever erection work is complete, Supplier shall offer erected equipment for inspection to Purchaser's engineer who along with Supplier's engineer will sign such records on acceptance.

4.3.2 The complete construction of machine right from component level till the complete machine assembly performance tested including sub-assembly shall be properly documented with drawing, raw material, Test certificate etc.

4.3.3 There shall be time to time submission of information/clearance/approval by the purchaser and all comments shall be duly incorporated.

4.3.4 All such drawing will become part of PRODUCTION MASTER FILE which shall also contain as built drawing, Final Erection, Testing & Commissioning report done at site.

4.3.5 Three copies of PRODUCTION MASTER FILE shall be supplied.

4.4. EQUIPMENT ERECTION

4.4.1 Supplier shall carry out the works in accordance with the specific instructions given on the approved drawings, method statements, manufacturer’s drawings/documents or as directed by Purchaser. Equipment shall be erected in neat workmen like manner so that they are level, plumb, and square and properly aligned and oriented. Tolerances shall be as established in manufactures drawings or as stipulated by Purchaser. No equipment shall be grouted or bolted down to the foundation, until its alignment is checked and found acceptable by Purchaser.

4.4.2 Supplier shall provide all supervision, labour, tools, machines, cranes, slings, wire rope, D-shackle etc., equipments, scaffolding, rigging material and incidental material such as bolts, wedges, anchors, concrete inserts, grout material etc. required to
complete the works. Supplier shall also provide at his own cost all such consumables like oxygen - acetylene gas welding rods, grinding wheels, temporary supports, shims etc. required to complete work.

4.4.3 Supplier shall take utmost care while handling instruments, delicate equipments, panels etc., and protect all such equipments on erection.

5. DRAWINGS AND O&M MANUALS

5.1. Supplier shall submit 3 hard copies & one soft copy of all the approved drawings incorporating any modification / changes made during the execution of CONTRACT. All these drawings shall be marked as 'As Built'.

5.2. Supplier shall submit 6 hard & 1 soft copy of the following documents:

5.2.1 Operations manual of the machine.

5.2.2 Programs manual.

5.2.3 Maintenance manual with drawings, circuit diagrams, interfacing instructions, trouble shooting and maintenance instructions and spares list with source of supply.

5.2.4 Lubricating chart with oil /grease type, quantity, changing interval, brand name should be indicated clearly.

5.2.5 Manuals of High Energy X-Ray Digital Imaging system from the original equipment manufacturer (OEM) or supplier.

5.2.6 Control system Documents on DVD

5.3. Submission of the drawings and manuals shall be a precondition for releasing of any final payment due to Supplier.

6. MAINTENANCE SERVICES

During the post commissioning period for at least 05 Years, supplier has to provide the following services:

6.1. Maintenance visits on call basis or as required by Purchaser for observing the performance of High Energy X-Ray Digital Imaging system.

6.2. Repair charges like replacement of spares.
6.3. The supplier shall undertake to maintain the machine on “Annual maintenance contract” basis as per mutually agreed terms, which will be entered after expiry of warranty. Supplier shall quote the Annual Maintenance Contract charge per year for minimum of 05 years.

6.4. The party shall extend support for all spares for a period of ten years.

7. TRAINING

The supplier shall provide training in the operation, maintenance and trouble shooting of High Energy X-Ray Digital Imaging system to two departmental personnel free of cost at purchaser’s site.

8. SCHEDULE OF PRICE

8.1. CONTRACT price shall include all costs of “Supply and installation at our site, Testing & evaluation, and commissioning of High Energy X-Ray Digital Imaging system suitable for radiographic imaging of Solid Propellant Rocket motors (2.8 m or 3.2 m diameter) using 15 MeV X-Ray Linac Machine”.

8.2. CONTRACT prices shall also include all travelling expenses, living expenses, salaries, overtime, benefit and any other compensation for engineers, supervisors, skilled, semiskilled workmen, watch and ward staff, laborer and other staff employed by the Supplier, cost of tools and tackles required for erection and other consumable material required, and all taxes, duties, and levies as applicable on the date of submission of bid.

8.3. Price shall be firm & fixed.

8.4. Supplier shall quote the prices as per the price bid format enclosed as Section-D Annexure - I

8.5. The rate quoted shall be on DDP / DAP SDSC SHAR, Sriharikota basis.

8.6. All rates of taxes/duties/levies applicable with details of percentage and applicable portion of the price should be spelt out clearly in the offer.

8.7. The taxes applicable for supply and erection & commissioning shall be indicated separately in terms of percentage in the price bid. If the offers submitted by the
suppliers are silent on taxes, it will be presumed that quoted rates are inclusive of taxes & duties and no claim in this regard will be entertained later.

8.8. Purchaser is eligible for concessional exemption of Customs Duty for imported items. Necessary exemption certificate will be provided to the suppliers against request. This may be taken into account while quoting for items, if applicable.

8.9. In case of foreign suppliers, the prices shall be quoted on DDP / DAP, SRIHARIKOTA basis. In case of any change, supplier shall identify the Indian agent and responsibilities related to clearing the consignment, transport of equipment to destination and erection & commissioning at site and all the necessary works till the equipment is commissioned and accepted by Purchaser as per the mutually agreed acceptance plan in the contract document.

9. DISCOUNTS

Supplier shall not indicate any discount separately and quoted price should be after deducting the discount.

10. MODE OF PAYMENT

10.1. In case foreign suppliers LC will be established for supply portion and erection & commissioning portion separately. The agency commission shall be paid in Indian Rupee based on the supplier’s authorization. Any other mode of payment shall be stipulated by the tenderer clearly in the deviation statement attached in section-D Annexure - II of the proposal document.

11. TERMS OF PAYMENTS

a) The following payment terms are acceptable.

• 20% as advance against Bank guarantee and invoice.
• 70% on receipt of items and on inspection by CLIP at our site.
• 10% within 30 days from the date of commissioning and final acceptance.

b) Wherever advance payment is requested, Bank Guarantee from any Nationalized Bank/Scheduled Bank should be furnished. In case of advance payments, if the party is not supplying the material within the delivery schedule, interest will be levied as per the Bank Lending Rate plus 2% penal interest.

c) Interest will be loaded for advance payments/stage payments as per the lending rate of Bank and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

12. DELIVERY SCHEDULE

a) The High Energy X-Ray Digital Imaging system shall be commissioned at NDT Facility, SPP, SDSC SHAR within four months from the date of receipt of purchase order. Based on the site clearance from department, the system shall be commissioned within one month after the receipt of item at our site. The above one month is inclusive of total time period i.e., four months.

b) Delivery date is essence for this contract. Party shall adhere to the delivery date mentioned in this tender and same shall be confirmed along with the offer. In case Party is unable to meet the delivery schedule, the offer is liable for rejection.

c) Intermediate milestones as identified mutually after placement of order shall be met with.

13. LIQUIDATED DAMAGES

In the event of the Supplier failing to complete the work within the delivery period specified in the contract agreement or any extension agreed thereto, the Purchaser shall reserve the right to recover from the Supplier as liquidated damages, a sum of 0.5 percentage per week or part thereof of the un-delivered portion of the total contract price of equipment or work. The Total liquidated damages shall not exceed the 10.0 percentage of the total Contract price.
14. EXTENSION OF TIME

14.1. If the completion of deliveries of equipment, work is delayed due to reason of Force Majeure the Supplier shall without delay give notice to the Purchaser in writing of their claim for an extension of time. The Purchaser on receipt of such notice may agree to extend the Contract period or delivery date as may be reasonable but without prejudice to other terms and conditions of the Contract.

14.2. Both parties shall keep a record of the circumstances referred to above which are responsible for causing delays in the execution of the services and shall give notice to the other party of any such cause as soon as it occurs. An event of Force Majeure, where so ever it occurs, provided it affects either party in fulfilling its obligations under this contract, shall justify the affected party's claim of Force Majeure. Should one or both the parties be prevented from fulfilling their contractual obligations by a state of Force Majeure lasting continuously for more than a month, the parties shall consult with each other regarding the future execution of the contract.

15. TAXES AND DUTIES

15.1. GST

The applicable rate of GST (CGST / SGST / IGST / UGST) shall be clearly mentioned along with the concerned HSN code / SAC. As per the Notification No.47/2017 - Integrated Tax (Rate) dt.14 Nov, 2017 issued by the Government of India, Ministry of Finance (Department of Revenue), we are eligible for reduced rate of 5% IGST. Exemption Certificate as required under the said notification will be provided along with the Purchase Order.

15.2. CUSTOMS DUTY

a) The Purchaser is eligible for concessional Customs Duty exemption as per Notification No.05/2018 dated 25-01-2018. This may be taken into account while quoting for import items.

b) In case tender offering items considering the customs duty exemption, they shall also indicate the price, separately, with customs duty component and terms and conditions thereto.
15.3. **INCOME TAX**

Income tax at the prevailing rate as applicable and if applicable from time to time shall be deducted from the supplier's bills as per Income Tax Act and a certificate issued (TDS Certificate).

16. **RISK COVERAGE**

The Supplier shall arrange comprehensive risk coverage at his own cost covering the value of equipment including transportation to the site from manufacturer's works, storage at site, fabrication, erection, testing and commissioning at site. The period of such coverage shall be up to contractual completion period or any extension granted by Purchaser thereof.

17. **SECURITY DEPOSIT**

A Bank Guarantee for the faithful execution of the contract / PO for 10% of the order value shall be provided immediately within 15 days after receipt of the order towards the performance of the contract. The Bank Guarantee should be from a Nationalised / Scheduled Bank in Rs.100 non-judicial stamp paper valid till the completion of scope of work / supply as per the order plus 60 days. This will not carry any interest and shall be returned to you after successful completion of scope of work / supply against your request. In case of non performance/poor performance the Bank Guarantee shall be forfeited. If you are not submitted the BG within the specified period, this order is liable to be cancelled.

18. **PERFORMANCE BANK GUARANTEE (PBG)**

A Bank Guarantee for 10% of the order value shall be provided immediately within 10 days after supply or along with supply towards the performance of the system. The Bank Guarantee should be from a Nationalised / Scheduled Bank in Rs.100/- non-judicial stamp paper valid till the successful completion of warranty period plus 60 days. This will not carry any interest and shall be returned to you after successful completion of warranty period against your request. In case of non performance / poor performance the Bank Guarantee shall be forfeited.
19. COMBINED BANK GUARANTEE FOR SECURITY DEPOSIT CUM PERFORMANCE BANK GUARANTEE

Incase if supplier is unable to provide two separate bank guarantees i.e., one for security deposit and other for Performance bank guarantee, supplier can submit a combined BG for SD & PBG as per the details below.

A combined Bank Guarantee (as per the format enclosed) for 10% of the order value) shall be provided immediately within 10 days after receipt of order towards the performance of the contract & the performance of the system. The Bank Guarantee should be from a Nationalised / Scheduled Bank (as per the format enclosed) in Rs.100 non-judicial stamp paper valid till the successful completion of contractual obligation (i.e., for the period of supply + warranty + 60 days). This will not carry any interest and shall be returned to you after successful completion of contractual obligations. In case of non performance / poor performance the Bank Guarantee shall be forfeited. If you are not submitted the BG within the specified period, this order is liable to be cancelled.

20. PACKING AND FORWARDING

a) The tenderer will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination.

b) The packing and Marking of packages shall be done by and at the expenses of the Contractor.

21. WARRANTY

The supplier shall provide twelve months warranty for the entire system for a defect liability, after final official handing over at his cost. During this period supplier has to provide and adhere to the following:

21.1. This period shall include maintenance, replacement of defective / failed parts at free of cost.

21.2. Supplier has to attend unlimited breakdown calls.

21.3. Purchaser will not provide any transport/accommodation for this purpose.
21.4. Upon oral or written notification of defects in or malfunctioning of the goods during the warranty period which require corrective action, Supplier shall send the necessary personnel to job site to supervise and assume responsibility for repairs and/or replacement, if necessary, of the defective goods or material at his own cost. If Supplier does not, within seven (7) days after receipt of notification, take steps to correct the breach, Purchaser may do so at the cost and expense of Supplier. Supplier shall reimburse Purchaser all expenses incurred by Purchaser to repair or replace malfunctioning or non-conforming goods.

21.5. Purchaser has no obligation to discover defects, patent or otherwise, and this shall be sole responsibility of Supplier. Inspection and clearance for shipment by Purchaser’s inspectors or Inspection agency appointed by Purchaser shall not relieve Supplier of any of his obligation and duties under the terms and conditions herein.

21.6. Where defects in items are remedied under warranty, the period for which the warranty operates shall be extended by such period, as the items were not available to the Purchaser. Where defects items are replaced by new ones, the full warranty period stipulated in the contract shall apply to such replacement items as from the date of their delivery.

21.7. Supplier shall obtain similar warrantee from each of his sub-suppliers. However, the overall responsibility shall lie within the Supplier.

22. GUARANTEE

a) The High Energy X-Ray Digital Imaging System shall be guaranteed against any manufacturing defects for a period of 12 months from the date of commissioning.

b) For defects noticed during the guarantee period, replacement rectification should be arranged free of cost within a reasonable period of such notification.

23. DISCLOSURE AND USE OF INFORMATION BY THE SUPPLIER

23.1 If the documents supplied by the Purchaser are marked 'restricted use' the Supplier shall take all necessary steps to ensure that the requirements of the contract or any specification, plan, drawing, pattern, sample or information supplied by, or on behalf of, the Purchaser in connection therewith shall not be disclosed to any person other than a
person employed or engaged by the Supplier, whether under sub-contract or otherwise, for the performance of the contract.

23.2 Supplier shall guarantee that all information and data received during execution of Contract from Purchaser shall be classified as confidential within the meaning of the Official Secrets Act and will not be divulged to any third party without prior written permission of Purchaser. All drawings & documents shall be returned after execution of work.

24. ARBITRATION

a) In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre –Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be “English” only.

b) Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.
25. APPLICABLE LAW AND JURISDICTION

The laws of India shall govern this contract for the time being in force. The Courts of Andhra Pradesh, India only shall have jurisdiction to be with and decide any legal matters or disputes whatsoever arising out of the contract.

26. FORCE MAJEURE

Should a part or whole work covered under this agreement be delayed due to reasons of Force Majeure which shall include legal lockouts, strikes, riots, civil commotion, fire accident, quarantines, epidemic, acts of God and Government, embargoes, the completion period for work, equipment referred to in this agreement shall be extended by a period not in excess of the duration of such Force Majeure. The occurrence shall be notified by either party within reasonable time.

27. GENERAL

27.1. SITE DETAIL

(a) SDSC SHAR, Sriharikota is prohibited place. Hence, no contractor, working personnel will be allowed to stay and they have to be accommodated in Sullurupeta by his own arrangement.

(b) The contractor may have to transport working personnel on day to day basis by his own arrangement. Location of the site is worked out to be 23 km from Sullurupeta.

(c) The contractor personnel have to undergo security checks by security force i.e. CISF

(d) All the working personnel shall comply with code of conduct during their stay inside the SHAR campus.

27.2. SAFETY

Supplier shall follow the safety regulations / codes or safety instructions issued by PURCHASER and shall take necessary measures at his own cost.
27.3. **POWER SUPPLY**

(a) Electrical power provided by the purchaser during installation of High Energy X-Ray Digital Imaging system is NOT chargeable subjected to availability & approval. Reasonable quality of normal power will be made available at one point (415V, 3 phase, 50 Hz). However, onward distribution shall be done by the supplier.

(b) All electrical installation by the supplier shall be as per safety regulation & standard and will be subjected to purchaser inspection & approval.

27.4. **WORK RULES**

Generally, NO work shall be carried out during night or public holidays unless a written permission is obtained from Purchaser.

27.5. **SITE CLEARANCE**

Upon completion of work, Supplier shall remove all his equipment and material from the site within one month or time mutually agreed. Supplier at all times shall keep site in clean condition and remove all unwanted material at regular intervals. In case supplier fails to remove all his equipment and material within the mutually agreed time it is deemed that Purchaser will arrange to remove the same at the supplier’s cost besides imposing penalty for failure.

27.6. **ACCOMMODATION**

(a) Very limited accommodation may be provided by Purchaser to senior supervisory staff of the Supplier on chargeable basis subject to availability.

(b) Supplier shall make his own arrangement for accommodation & canteen facility for all its staff, technicians, labor & workers. Transportation shall be arranged by Supplier at his own expenses for entire staff.
27.7. **MEDICAL FACILITIES**

No medical facilities will be provided by Purchaser at site for Supplier's site personnel. Supplier shall make his own arrangement at his own expenses for medical facilities for site personnel.

27.8. **WORK PROGRAMME**

The supplier along with proposal shall give a preliminary programme schedule for executing the contract as per the scope of work. Upon award, supplier shall prepare a detailed program schedule for review / approval by Purchaser. Supplier as per exigencies of work shall revise and update program periodically.

Monthly progress review meeting will be conducted alternatively at purchaser / supplier site.

27.9. **SUB-CONTRACTS**

27.9.1 Whole of the work shall not be subcontracted.

27.9.2 The portion of the work for which the supplier is not expert, shall be sub-contracted to proven / reputed OEM in that field. Such sub-contract if any shall be given with prior approval of the purchaser including choice of subcontractor.

27.9.3 The supplier shall be responsible for the proper execution of any sub-contract placed by him in connection with this contract.

27.9.4 Unless otherwise authorized by the Purchaser, the conditions of the sub-contracts shall be secured to the Purchaser any rights provided for it under the terms of the main contract.

27.9.5 Written permission, if given, shall not relieve Supplier from his obligations under the Contract and he shall take full responsibility for all work done by Sub-Suppliers. Supplier shall be responsible for transmitting pertinent data of all Contract terms and conditions to Sub-Suppliers. Supplier shall furnish to Purchaser copies of all un-priced sub-orders showing promised delivery dates and places.
27.10 CHANGES AND MODIFICATION TO SPECIFICATIONS, DESIGNS, DRAWINGS AND QUALITATIVE / QUANTITATIVE REQUIREMENTS.

27.10.1 Supplier shall obtain approval for the designs and drawings from the Purchaser before initiating the action for procurement / fabrication.

27.10.2 Change in make/model for bought item is NOT allowed unless approved by purchaser.

27.10.3 Purchaser is free to modify the designs or drawings during design review. Party has to carry out one-time modifications at each stage without any extra cost and obtains the approval from Purchaser. Two levels of design reviews are contemplated viz. preliminary design review and detailed design review to meet overall specification of the machine & sub-system.

27.10.4 The Purchaser reserves the right at any time to modify the Quantitative Requirement, Specifications, patterns or drawings relating to the work covered by the contract. The Supplier shall inform the Purchaser, within 15 days, of any objection/reservation to the modifications required.

27.10.5 Unless the Purchaser directs otherwise, the Supplier shall in either case, submit within a reasonable time limit to be specified by the Purchaser, an estimate of the effect of any such modification in the cost of performance of the contract and/or on the delivery schedule.

Any amendment to the contract, which may be necessary in this respect, will be established within a reasonable time in the form of an Amendment to Contract to be signed by both parties.

27.11. ACCEPTANCE AND REJECTION

(a) On completion of the work or part of the work as specified in the contract, the representative of the Purchaser referred to, shall check as soon as possible, but in any event within the month of notification of readiness for acceptance that the work performed complies with the contract requirements as regards quantity and quality.

(b) In the event of rejection of any of the articles, whereby the Supplier feels himself aggrieved, he may within eight days of the receipt of notification of rejection and before such articles have been removed from the place of inspection, give the Purchaser notice of
objection. Such objection shall be considered by a Board of Appeals of the Purchaser. The Purchaser shall, without prejudice to the arbitration clause in the contract, take a decision upon presentation of the Board's findings.

(c) Following test shall be conducted at SDSC SHAR after installation for acceptance:-

(i) Supplier shall demonstrate performance of the system as per the scope and PO specifications at the site (NDT Facility, SPP, SDSC SHAR, Sriharikota - 524 124).

(ii) On completion of tests, the members of the Inspection Organization of the Purchaser or Inspection agency appointed by Purchaser shall prepare a report, which must be countersigned by the Supplier.

27.12. SUSPENSION

27.12.1 Purchaser may notify the Supplier to suspend performance of any or all of his obligations under the Contract. Such notice will specify the reasons for suspension and the effective date of suspension. Supplier thereupon shall suspend the performance of such obligations until ordered in writing to resume performance of Contract by Purchaser.

27.12.2 If Supplier’s performance or his obligations remain suspended or the rate of progress is reduced, then, the time of completion will be suitably extended and all costs incurred by Supplier as a result of suspension or reduction in rate of progress will be paid to Supplier provided that the suspension or reduction in the rate of progress is not by reasons of Supplier's default or breach of Contract.

27.13. CANCELLATION

GENERAL RULE:

The Purchaser shall have the right at any time to cancel a contract either wholly or in part by giving written notice by registered mail. From the time of receipt of the written notice the Supplier shall undertake to observe the instructions of the Purchaser as to the winding up of the contract both on his own part and on the part of his sub-suppliers.
WITHOUT FAULT OF SUPPLIER:

In the case of cancellation of a contract by the Purchaser without any fault of the Supplier, the Supplier shall on receipt of Purchaser's instructions forthwith take the necessary steps to implement them. The period to be allowed to implement them shall be fixed by the Purchaser after conclusion with the Supplier and, in general, shall not exceed three months.

Subject to the Supplier confirming, Purchaser shall take over from the Supplier at a fair and reasonable price all finished parts not yet delivered to the Purchaser, all unused and undamaged material, bought-out components and articles in course of manufacture in the possession of the supplier and property obtained by or supplied to the Supplier for the performance of the contract, except such material, bought-out components and articles in course of manufacture as the supplier shall, with the agreement of the Purchaser, elect to retain.

WITH FAULT OF SUPPLIER:

The Purchaser reserves the right, after full consideration of all relevant circumstances, including the observations of the supplier, to cancel a contract in any of the following circumstances.

(a) In the event of the Supplier's failure to meet
(i) The Technical requirements of the Supplier.
(ii) The Progress and/or delivery requirements.

(b) If the Supplier has not observed the provisions of the contract concerning the disclosure and use of information provided by the Purchaser.

(c) If the Supplier fails to comply with the provisions of the contract concerning the equipment, supplies and technical documents made available by the Purchaser.

(d) If the Supplier transfers his contract without the Purchaser's authorization or concludes sub-contracts against the Purchaser's explicit directives.

(e) In the event that Supplier unjustifiably repudiates the Contract or fails to ship or dispatch all or part of the goods ordered for reasons other than those attributed to the Purchaser's actions or as provided in the Force Majeure clause, the Purchaser may, by giving an appropriate notice in writing to the Supplier, fix a Date of Essence by which
the Supplier shall complete the dispatch in full. If the Supplier fails to do so, the Purchaser, in addition to his right to recover Liquidated Damages in terms of the Contract, shall also have the right to cancel this Contract and make substitute purchases from other sources. If the goods are in a partial state of fabrication, Purchaser may have the fabrication completed by other means, in which event Supplier shall be liable to Purchaser for the additional expenses incurred thereby, but shall not have any claim on savings, if any, in such cases.

(f) In the event of such cancellation, the Purchaser shall unless otherwise specified in the contract, only pays.

(i) In the case of a fixed-cost contract for the supply of equipment or material. The contractual value of items delivered and accepted under the contract before receipt of notification of cancellation, or to be accepted under the special conditions of cancellation.

(ii) In the other cases a fair and reasonable price in respect of such work as has been carried out prior to the receipt by the Supplier of notification of cancellation.

28. EQUIPMENT AND SERVICES

To be provided by the vendor

(a) Operation and maintenance manuals

(b) The Party’s scope of work shall include erection, testing and commissioning, operational trials covered in this specification.

(c) Any other system not indicated herein, but required to make the system complete shall be included and provided by the bidder at no extra cost unless otherwise specifically excluded as indicated.

To be provided by Department

The equipment and services will be made available by the Department:

(a) EOT cranes for erection and commissioning at site.

(b) Locations for High Energy X-Ray Digital Imaging system.

Free electricity and water required for erection at SDSC SHAR.
29. CODES AND STANDARDS

a) All equipments covered under this specification shall comply with all currently applicable statutes, regulations, standards and safety codes in the locality where the equipment will be installed.

b) Other national standards established to be equivalent or superior to the codes and standards specified are also acceptable.

c) In the event of any conflict between the codes and standards referred to in the specification and the requirements of this specification, the more stringent of these requirements shall govern.

d) Unless indicated otherwise, all codes and standards referred to in this enquiry specification shall be understood to be the latest version on the date of offer made by the bidder.

30. GENERAL SPECIFICATIONS RELATED TO FABRICATION

a) All welds shall be ground.

b) 100% DP test for root and final weld pass shall be carried out.

c) 100% Ultrasonic test for plates of thickness above 20mm.

d) 100% Radiography test for all butt welds for plate thickness 20mm and above.

e) The entire fabrication activity shall be performed in a planned / sequential manner to achieve desired dimensional / geometrical tolerance specified in the drawing or functional requirement mentioned in this document. It is suggested to add sufficient number of fixtures and tools to control the distortion during welding process.

f) Dimensions shown in the drawing are final acceptance dimensions. Allowances for machining and thinning due to fabrication process shall be added to arrive at material sizes. Party is wholly responsible for realizing the finished product. Allowances mentioned in the drawing are indicative. Party shall study the requirement and provide proper machining allowances required based on the fabrication procedure adopted.

g) Dimensional tolerance wherever not specified shall follow the standard open dimension tolerances provided in the drawing. Wherever welded attachments are used to facilitate
fabrication, same shall be removed carefully by cutting or chipping and surface of material shall be finished smooth by grinding. As far as possible, hammering shall be avoided.

h) Edge preparation shall be carried out for all joints as mentioned in the drawing or as per standard fabrication procedure.

31. PAINTING

All the exposed carbon steel surfaces shall be painted as per following:

a) Surface Preparation: Cleaning by wire brush or power tools to remove any loose dirt or mill scales from the surface.

b) Sand blasting shall be carried out to clean the surfaces before painting operation.

c) Spray painting shall be carried out for primer and paint.

d) Primer: One coat of zinc rich primer with red oxide and zinc phosphate pigments to achieve total DFT of 70 to 75 micron.

e) Final Coat: Two coats of epoxy paint of total 125 micron DFT.

f) Color – On outer and inner surface shall be Blue. Party shall get approval prior to painting.

g) Total DFT shall be 175 microns (min.)

h) Any intermediate cleaning required between successive coats of paint shall also be carried out as per manufacturer’s standard.

i) Final coat of paint shall be applied after erection at our site. However, final coat shall be applied to surfaces that become inaccessible after erection.

j) Necessary tools like compressor, spray gun and consumables shall be provided by the party.

k) Proper masking shall be carried out wherever required.
SECTION - B
SCOPE OF WORK
1. INTRODUCTION

1.1. Satish Dhawan Space Centre SHAR is one of the units of Indian Space Research Organization (ISRO), Govt. of India, is now planning to augment its SDSC SHAR, Sriharikota, SPSR Nellore Dist. Andhra Pradesh.

1.2. This plant produces solid propellant rocket motors required for the satellite launch vehicles.

2. SCOPE OF WORK

Supply, installation, testing & evaluation and commissioning of a High Energy X-Ray Digital Imaging system at our site in Solid Propellant Plant, SDSC SHAR, Sriharikota, India.

|   | High Energy X-Ray Digital Imaging system along with accessories | 01 set |

3. VENDOR’S SCOPE OF WORK

The details of vendor’s scope of work for “High Energy X-Ray Digital Imaging system” for SDSC SHAR, Sriharikota are given below.

3.1. The party shall provide overall general arrangement of the machine & sub system with all major dimensions

3.2. Technical documents to be furnished by successful bidder.

A) Following drawings is to be provided after placement of order:-

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<table>
<thead>
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<tbody>
<tr>
<td>1.</td>
<td>Floor space required for offered machine &amp; equipments detail layout for review / comments &amp; approval.</td>
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<tr>
<td>2.</td>
<td>GA drawing of the complete machine indicating overall physical dimensions.</td>
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<tr>
<td>3.</td>
<td>GA drawing of sub-system &amp; sub-assembly &amp; major components</td>
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<tr>
<td>4.</td>
<td>Foundation drawing of Machine</td>
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<tr>
<td>5.</td>
<td>Foundation drawing of Auxiliary system</td>
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B) Following drawing/details to be submitted during course of realization for approval
1. Fabrication drawings of Machine & its sub-assemblies.
2. Electrical & Instrumentation cables routing with schedule.
3. All electrical panel drawings including auxiliary systems , if any
4. Schedule/rating of electrical machines / appliance etc
5. Schedule/rating of Instrumentation & specifications
6. Details of Remote Control Panel & Local Control Panel.
7. List of process parameter & their details.

3.3. Required handling systems for transportation and erection at site.
3.4. Submission of Quality Assurance Plan.
3.5. Fabrication clearance from Purchaser.
3.6. Packing and forwarding machine, subsystems, spares, accessories and other materials to site.
3.7. Upon the clearance from Purchaser for site erection, supplier has to erect all the materials/equipments.
3.8. Providing all other material handling equipment required for site erection of machine and other subsystems.
3.9. The fully commissioned machine and its subsystems are to be subjected to Test and Evaluation by the Purchaser Committee. This is to ensure that machine is meeting all its intended requirements as per the given specifications. If any deviations obtained shall be resolved by the tenderer at no extra cost within the scope of the work under this contract.
3.10. Submission of detailed work breakdown structure with schedules and resources.
3.11. Sub system wise inspection and clearance by Purchaser. Supplier shall carry out inspection at identified stages and the copies of such reports after inspection shall be forwarded to Purchaser. The original copies of certificates shall be submitted along with other documents at the time of acceptance testing.
3.13. The supplier has to provide one year warranty for the entire system.
3.14. The scope of the work is not limited to the above but also include all the requirements for the fully functional of machine to meet all the requirements regardless of whether they are explicitly mentioned or not.

3.15. The supplier shall be given pre-defined time to complete the action points raised during various reviews such as design review, fabrication drawings, etc. The action points have to be closed within the given time. Otherwise it is considered as delay from supplier side and time will be considered to impose LD.

4. WORKS UNDER PURCHASER’S SCOPE

4.1. Clearance for Quality Assurance Plan

4.2. Clearance for manufacture of machine and its subsystems

4.3. Stage inspections or third party inspection.

4.4. Pre-delivery / dispatch inspection.
SECTION –C

TECHNICAL SPECIFICATIONS
TECHNICAL SPECIFICATIONS OF DIGITAL IMAGING SYSTEM

1.0 Scope

The technical scope of the tender includes supply, installation at our site including interfacing of detector system with existing dual energy (15 MeV, 9 MeV) Linac system (Linatron K15 of M/s VAREX Imaging Corporation, USA; Un-flattened X-Ray dose rate: 120 Gy /min.), performance demonstration and commissioning of the digital imaging system.

2.0 Specifications

The Digital imaging system suitable for imaging of components using 15 MeV Linac system shall consist among others the following sub-systems: (a) Flat Panel X-ray Detector system, (b) Shielding system for detector suitable for 15 MeV X-ray energy, (c) Power and Control cables, (d) Image Acquisition system, Image Processing software & Control Workstation with 12 Megapixel image viewer, (e) Synchronizing module for synchronizing X-Ray source (Linatron) and FPD system for flicker-free image acquisition and display, (f) Cooling system and (g) Structural frame for integration of X-Ray detector and Shielding system and has provisions to interface with overhead Telescopic position manipulating system of the Department. The required interface details of this manipulator in this regard will be provided to the supplier for fabricating the structural frame.

2.1 Flat Panel X-Ray Detector specifications

The broad specifications of the Flat Panel X-Ray Detector (FPD) system of computed tomography (CT) grade that meets industrial non-destructive testing requirements are listed below:

(a) The FPD shall be around 16-inch amorphous silicon Flat Panel X-ray Detector.
(b) The pixel pitch of FPD shall be 140 µm or lesser and the ADC shall be 16-bit system.
(c) The FPD system shall have variable frame rates up to 15 frames per second or higher.
(d) The FPD shall be suitable for the X-ray ray energy range from 40 kV to 15 MV.
(e) The FPD System integration shall be with a gigabit ethernet or fiber-optical interface. It shall have provisions to perform on-board corrections including Multiple Gain Corrections at different signal levels.

(f) Rapid system integration shall be accomplished via gigabit ethernet or optical data communication with integrated trigger and X-ray synchronization circuitry.

(g) Two numbers of shielding systems for FPD suitable for X-ray imaging up to 15 MeV energy or better shall be provided with provisions for accommodating cooling lines.

(h) A comprehensive software library for image acquisition and processing shall be provided.

(i) The cable length between FPD and the computer station (to be located in the Control room) shall be around 120 metres.

(j) Detector Characterization Charts shall be in accordance with ASTM E2597-14

(k) The housing of FPD system shall be of Aluminium housing

(l) The applicable regulatory standards include IEC/EN 61010.

2.1.1 FPD SENSOR specifications

(a) The FPD panel shall be single substrate amorphous silicon active TFT-diode array

(b) The scintillator shall be preferably DRZ - high or Gd₂O₂S: Tb for the high energy side (15 MeV X-rays) of the detector with copper build-up plate and that on KV side of the detector can be kept unaltered.

(c) The pixel matrix shall be around 3000 x 3000 or better.

(d) The total imaging or pixel area shall be around 400 x 400 mm² or higher

2.1.2 Electronics of FPD system

(a) The ADC of the system shall be of 16-bit system.

2.1.3 Communication interface of FPD system

(a) The data interface shall be either gigabit ethernet or Fiber-optical interface

(b) The X-ray interface shall be Integrated Trigger control
(c) The software shall support for 64 bit Windows® OS

2.1.4 Environment for FPD system

(a) Range of Temperature for operation: 10 – 35°C and that for storage: -10 – 50°C
(b) The relative humidity (RH) : 10 – 90%

2.2 Image acquisition and processing

a) The architecture / interface shall be common for all source and detector types.
b) Provision shall be available to customize user interface / operational workflow in the field, via built-in scripting tools.
c) Provision shall exist to support 4 images simultaneously.
d) Provisions shall exist that support multiple number of predefined filters at software installation/setup.
e) Provision shall be available to allow for multiple number of user defined convolution filters.
f) Following image display provisions shall be available: (i) 16-bit image display, (ii) Window/level control, (iii) Zoom functions including zoom-to-fit, (iv) Pan and scroll and (v) Image stitching and cropping
g) The file format shall be such that it shall support 16 bit TIFF, JPEG, BMP, DICONDE.
h) Provisions for digital audio/video image recording shall be available.
i) Multiple levels of user sign-on / security levels.
j) Software shall support back-end database management (e.g., retrieval and archival) and other platforms that include SQL Server and Oracle.
k) The flat panel detector characterization / performance management shall be as per latest ASTM standards.
l) Flat panel detector shall be configured to acquire/ transmit images in continuous mode.
m) Image enhancement and image processing filters shall be available for images that are acquired in real time.
n) An image enhancement function has provision to invert the display scale.
o) Provision shall be available for automatic offset correction of images before being displayed.

p) Provision shall exist for automatic gain correction of images before being displayed.

q) Provision shall exist for automatic bad pixel correction via bad pixel map of images before being displayed.

r) The software shall have provisions for dimensional measurement of features and defects from images.

s) The software also shall have provision to confirm the details of underperforming pixels as furnished in the Test certificate for FPD.

t) The image processing software for processing of radiographic images both in on-line and off-line shall be the latest version with all necessary filters and image enhancing features.

u) In addition, the imaging processing software shall have provisions for cross-sectional imaging of components. This cross-sectional imaging software may have individual modules respectively for image acquisition, reconstruction, visualization and analysis and may interact among them to completely characterize features of components to be imaged. The modules or equivalent may have provisions as given below:

(i) Acquisition module shall be compatible with standard flat-panel detector (FPD) available in the market and interface with motion controllers and other electronic control systems. Other provisions may include (A) configuration and storage of scan settings for given imaging setup, (B) on-line visualization of projections acquired during scanning, and (C) storage of acquisition parameters and projections for post processing & analysis.

(ii) Reconstruction module should have provisions for pre-processing and image reconstruction: (A) loading of stored projections for pre-processing, (B) availability of 2D imaging filters to pre-process acquired projections before reconstruction, (C) attenuation image computation, (D) correction for beam hardening, scatter, misalignment, denoising and other software based artifact corrections, etc. (E) quick reconstruction using cone beam FDK Reconstruction algorithm and (F) reconstruction using Iterative algorithms.

(iii) Visualization module should have provisions for (A) simultaneous rendering of Front, Side, Top and 3D volume views, (B) easy opacity and transparency
manipulation, (C) synchronized volume slicing at arbitrary angles, radial and spherical cropping in 3D, choice of rendered views, etc.

(iv) Analysis module should have provisions for (A) Interactive length measurement with line and box cursors for metrology purposes, (B) Interactive analysis - region of interest, operations on individual points, statistics etc. (C) volume manipulation with filters related to noise reduction, edge detection, segmentation, volume enhancement, registration etc.

The supplier shall extend necessary support for interfacing with the standard microcontroller of an object manipulator of the purchaser.

2.3 Computer and image display requirements

2.3.1 Computer configuration: The tentative configuration of the computer workstation is as given below.

(a) CPU: 3 GHz or better,
(b) RAM: 32 GB or better,
(c) Hard disc: 1 TB or better
(d) 11 GB NVIDIA RTX 2080 Ti or better
(e) Microsoft Windows, 64 bit or better.
(f) Colour monitor: 32 inch or better

2.4 Display system for X-ray images

The display system for viewing the processed radiographic images shall be a modality 12 Megapixel monitor with the fullest potential of the software. The monitor shall be with anti-glare coating with stand. The broad specifications of the display system are as given below:

(a) Colour panel with a minimum of 10 bit display port
(b) The size of the display shall be 30.9” or better
(c) The resolution shall be 4200 x 2800 or better.
(d) The viewing angle (horizontal /vertical): 178º /178º.
(e) The power cord shall be suitable for the site electrical supply: 230V single phase at 50 Hz.

The above specifications for computer and image display system are indicative and the Party shall supply the better PC system if performance of the system demands.
3.0 Other essential specifications

(a) The cables (power, control) shall have sufficient length for operation of the Digital Imaging system from Control room which is about 120 m away from the detector system.

(b) Cable drag chains (of IGUS or LAPP make) of three different types shall be supplied as given below. The approximate dimensions of drag chains are indicated: (i) Chain-1: Width: 400 mm height:100 mm and Length: 65 m. (ii) Chain-2: Width:150 mm, Height:50 mm and Length: 55 m and (iii) Chain-3: Width: 450mm, Height:100 mm and Length:30 m. Necessary supports such as beams, angles, guided cable trays, etc., for running the drag chains along LT and CT motions shall be supplied along with drag chains. It is to be noted that the minimum bending radius for the drag chain systems shall be 350 mm. The anchoring of the supports in this regard on the concrete walls of the Bay and on the LT & CT trolleys is in the scope of supplier.

(c) Supplier shall provide acceptance test and measurement procedures and test certificates for acceptance tests.

(d) The cooling system to be provided by the supplier will be located outside of the Bay at about 120 m from the detector system. The hoses of cooling system shall be supplied by the supplier accordingly.

(e) The control unit of synchronization module to be supplied by the supplier will be located inside the Control room, located at a maximum of 120 m from the Linatron or Linac source.

3.1 Drawings / Documents / Details to be furnished

(a) Drawings of subsystems of Digital Imaging system showing detailed dimensions.

(b) Power requirements for Digital Imaging system.

(c) Mass and CG details of the Digital Imaging system.

(d) Hard copies (2 sets) and soft copies of operator and maintenance manuals of Digital Imaging system, schematic electrical wiring diagrams, layout and troubleshooting details, etc.

(e) Supplier shall submit relevant documents for obtaining export clearance if any and take necessary action for obtaining the export clearance at an early date. Supplier shall keep purchaser posted on the status of export clearance.
3.2 Installation, commissioning and training at purchaser’s site

a) Supplier shall demonstrate performance of the system as per the scope and purchase order specifications at our site: NDT Facility, SPP, SDSC SHAR, Sriharikota - 524 124, India.

b) A radiographic sensitivity of 1 % shall be demonstrated with 380 mm thick steel sample and 2000 mm thick propellant sample using ASTM plaque type penetrameters or IQIs made of propellant or equivalent material provided by the purchaser.

c) The supplier shall extend assistance in interfacing of FPD system with Telescopic crane manipulator.

d) The supplier shall complete delivery, commissioning and performance demonstration of Digital Imaging system at our site as per the specifications within four months from the date of receipt of purchase order.

e) Based on the clearance from department, Installation and commissioning shall be completed within one month from the date of receipt at site which is inclusive of total schedule of 4 months.

f) Supplier shall attend major breakdowns during the warranty period of 12 months after commissioning of the Digital Imaging system at no additional cost.

g) Suitable training shall be imparted to two of our engineers on basic operation and general maintenance and trouble-shooting of the subsystems of Digital Imaging system.
## SCHEDULE OF PRICES

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Unit</th>
<th>Cost (in Rs/foreign currency as applicable.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Supply, installation, testing &amp; evaluation at our site and commissioning of the High Energy X-Ray Digital Imaging system as per the scope of work, specifications and terms &amp; conditions detailed in section A, B &amp; C of the document.</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Transportation Charges for S.No.1</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Installation, Testing &amp; evaluation and Commissioning charges for S.No.1</td>
<td>Lump sum</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>GST on item in S.No.1</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>GST on item in S.No.2</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>GST on S.No. 3</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Cost (Sum of S. Nos. 1 + 2 + 3 + 4 + 5 + 6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(SIGNATURE OF SUPPLIER)
In line with Proposal Document, supplier may stipulate Exceptions and deviations to the Proposal conditions if considered unavoidable.

<table>
<thead>
<tr>
<th>SL. NO</th>
<th>Reference in Specification</th>
<th>Dept. Specification</th>
<th>Offered Specification</th>
<th>DEVIATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAGE NO</td>
<td>CLAUSE NO</td>
<td></td>
<td></td>
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</tbody>
</table>

**NOTE:**

(a) Only deviations are to be written in this *Annexure-II*

(b) Any deviations taken by the Bidder to the stipulations of the Proposal document shall be brought out strictly as per this format and enclosed along with the bid.

(c) Any deviations not brought out as per this Proforma (*Annexure-II*) and written elsewhere in the Proposal document shall not be recognized and the same is treated as null and void.

(d) Any willful attempt by the Tenderer to camouflage the deviations by giving them in the covering letter or in any other documents that are enclosed may render the Bid itself non-responsive.

(SIGNATURE OF SUPPLIER)
## CHECK LIST

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Response by Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The detailed scope of work and technical specifications are understood and price was quoted accordingly</td>
<td>Yes / No</td>
</tr>
<tr>
<td>2.</td>
<td>All the general conditions of the contract as per the section-A are acceptable</td>
<td>Yes / No</td>
</tr>
<tr>
<td>3.</td>
<td>In case of some general conditions of the contract as per the section-A are not acceptable, deviation statement is to be enclosed as per Annexure-II</td>
<td>Yes / No</td>
</tr>
<tr>
<td>4.</td>
<td>The supplier evaluation format as enclosed along the proposal document is filled-in and necessary supporting documents are enclosed.</td>
<td>Yes / No</td>
</tr>
<tr>
<td>5.</td>
<td>Un-priced copy of schedule of prices, payment schedule is enclosed in the techno-commercial bid.</td>
<td>Yes / No</td>
</tr>
<tr>
<td>6.</td>
<td>Taxes are quoted in the price bid</td>
<td>Yes / No</td>
</tr>
<tr>
<td>7.</td>
<td>Cost of AMC has been quoted (if applicable)</td>
<td>Yes / No</td>
</tr>
<tr>
<td>8.</td>
<td>Delivery schedule is acceptable. If not, the deviation is brought-out in the deviation statement (Annexure-II)</td>
<td>Yes / No</td>
</tr>
<tr>
<td>9.</td>
<td>Terms of payment are acceptable. If not, the deviation is brought-out in the deviation statement (Annexure-II)</td>
<td>Yes / No</td>
</tr>
<tr>
<td>10.</td>
<td>Liquidate damages clause is acceptable. If not, the deviation is brought-out in the deviation statement (Annexure-II)</td>
<td>Yes / No</td>
</tr>
</tbody>
</table>

Signature of Supplier with Seal
STANDARD TERMS & CONDITIONS

1. OFFERS SHALL BE SENT ONLINE ONLY USING STANDARD DIGITAL SIGNATURE CERTIFICATE OF CLASS III WITH ENCRYPTION / DECRYPTION. THE TENDERS AUTHORISED ONLINE ON OR BEFORE THE OPEN AUTHORISATION DATE AND TIME ONLY WILL BE CONSIDERED AS VALID TENDERS EVEN THOUGH THE BIDS ARE SUBMITTED ONLINE.

2. THE TENDERER MUST AUTHORISE BID OPENING WITHIN THE TIME STIPULATED IN THE SCHEDULE BY SDSC SHAR. OTHERWISE THE ONLINE BID SUBMITTED WILL NOT BE CONSIDERED FOR EVALUATION. PHYSICAL COPY WILL NOT BE CONSIDERED EVEN THOUGH IT IS RECEIVED BEFORE THE BID SUBMISSION DATE.

In case of two-part tenders, parties shall submit their offers as follows:-

1) Part-I – Techno-commercial Bid

(No price details shall be mentioned in this bid and shall not upload the details of price along with the techno-commercial bid)

2) Part-II – Price Bid

In view of Two Part Tender, the Offers submitted contrary to above instructions will be summarily rejected.

3. In case, the tenderer is not interested to participate in the tender, the tenderer shall submit regret letter giving reasons, failing which future enquiries will not be sent.

4. Offer Validity: The validity of the offers / tenders should be 90 days (in case of single part tender) and 120 days (in case two part tender) from the date of opening of the tenders. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation.

5. GST - GST and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender. GST details are given below

GSTIN: 37AAAGS1366J1Z1

LEGAL NAME: SATISH DHAWAN SPACE CENTRE SHAR

VALIDITY FROM: 29/08/2017

TYPE OF REGISTRATION: REGULAR

6. Customs Duty - SDSC-SHAR is eligible for 100% Customs Duty exemption as per Notification No. 050/2017 539 (b) Dt: 30.06.2017. This may be taken into account while quoting for import items, if any.

In case tenderers offering items considering customs duty exemption, they should also indicate the bill of materials and price, separately, with Customs Duty component and terms and conditions thereto.

8. Advance Payment - Wherever advance payment is requested, Bank Guarantee from any Nationalized Bank/Scheduled Bank should be furnished. In case of advance payments, if the party is not supplying the material within the delivery schedule, interest will be levied as per the Prime Lending Rate of RBI plus 2% penal interest.

Interest will be loaded for advance payments/stage payments as per the prime lending rate of RBI and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

9. Liquidated Damages - In all cases, delivery schedule indicated in the Purchase Order/Contract is the essence of the contract and if the party fails to deliver the material within the delivery schedule, Liquidated Damages will be levied @ 0.5% per week or part thereof subject to a maximum of 10% of total order value.

10. Performance Bank Guarantee - Performance Bank Guarantee for 10% of the order value should be furnished in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till warranty period plus sixty days as claim period.
11. **Security Deposit** — Security Deposit for 10% of the order value is mandatory, if the ordered value is Rs.5.00 lakhs and above. Party shall furnish the Security Deposit in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till completion of the contract period plus sixty days towards claim period for faithful execution of the contract.

12. **BANK GUARANTEE FOR FIM**: Supplier has to submit Bank guarantee for equal value of Free Issue of Materials (FIM) issued by the Department from Nationalised / Scheduled Bank valid till receipt and acceptance of supply and satisfactory accounting of FIM plus sixty days as claim period.

13. The delivery period mentioned in the tender enquiry, IF ANY, is with the stipulation that no credit will be given for earlier deliveries and offers with delivery beyond the period will be treated as unresponsive.

14. The Department will have the option to consider more than one source of supply and final orders will be given accordingly.

15. The bidders should note that conditional discounts would not have edge in the evaluation process of tenders.


17. Wherever installation/ commissioning involved, the guarantee/warranty period shall reckon only from the date of installation and commissioning.

18. Purchase/Price Preference will be extended to the MSMEs under the Public Procurement Policy for MSMEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 and instructions issued by Government of India from time to time. Vendors who would like to avail the benefit of MSME should clearly mention the same and submit all the documentary evidences to substantiate their claim along with tender itself.

19. The drawings, specifications, end use etc., given by the Centre/Unit along with the tender enquiry are confidential and shall not be disclosed to any third party.

20. **SPECIAL CONDITIONS FOR SUBMITTING QUOTATIONS IN FOREIGN CURRENCY BY THE INDIAN AGENTS**

   The Tenderer should submit the following documents/information while quoting:

   a) Foreign Principal's proforma invoice/quote indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.

   b) Copy of Agency agreement with the Foreign Principal and the Indian Agent, precise relationship between them and their mutual interest in the business.

   c) Registration and item empanelment of the Indian Agent.

   d) Agency Commission will be paid only Indian Currency.

   e) Compliance of the tax laws by the Indian Agent.

21. **High Sea Sales** — Against High Sea Sale transactions:

   a. Offers shall be on all inclusive basis including delivery upto Sriharikota at the risk and cost of the supplier. Customs Clearance is the responsibility of the supplier and at his cost and risk.

   b. 100% payment will be made within 30 days after receipt and acceptance of the items at our site.

   c. GST as applicable

   d. Customs Duty Exemption Certificate and other relevant documents required for Customs clearance will be provided.

   e. High Sea Sales Agreement furnished by the supplier in accordance with the terms and conditions of our purchase order will be signed and issued by SDSC-SHAR.

22. The following information/documents are to be submitted wherever applicable.

   1. Product Literature

   2. Core banking account number of SBI, RTGS Details

   3. PAN No. in quotation and invoices

   4. GST Registration details.

   5. In case of MSME, registration details/documents from Competent Authority.

23. **EXCLUSION OF TENDERS**

   The following tenders shall be summarily rejected from the procurement process

   a. Tenders received from vendors who have not qualified in terms of their registration.

   b. Tenders received against publishing of a limited tender in the CPP portal.

   c. Tenders of vendors who have been removed from the vendor list or banned/debarred from having business dealings.

   d. Unsolicited tenders from vendors.

   e. The tenders which materially depart from the requirements specified in the tender document or which contain false information.

   f. The tenders which are not accompanied by the prescribed Earnest Money Deposit.

   g. The tenders of vendors who have not agreed to furnish Security Deposit, Performance Bank Guarantee and Liquidated Damages.

   h. The validity of the tenders is shorter than the period specified in the tender enquiry.

   i. The tenders received from vendors or their agents or anyone acting on their behalf, who have promised or given to any official of the Centre/Unit/Department, a gratification in any form, or anything of value, so as to unduly influence the procurement process.

   j. The tenders received from vendors, who, in the opinion of the Centre/Unit, have a conflict of interest materially affecting fair competition.
k. The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender).

l. In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product.

m. If a firm quotes 'NIL' charges / consideration, the bid shall be treated as un-responsive and will not be considered.