

**SHRI SAIBABA SANSTHAN TRUST, SHIRDI**

POST : SHIRDI – 423 109

TAL : RAHATA, DIST : AHMEDNAGAR (MS)

TELEPHONE NOS. (02423) 258671 / 676

FAX NO. (02423) 258660

E-mail : [saibaba.hospital@sai.org.in](mailto:saibaba.hospital@sai.org.in)

[hospital.store@sai.org.in](mailto:hospital.store@sai.org.in)

Website : <http://www.shrisaibabasansthan.org>

Link to Website : [mahatenders.gov.in](http://mahatenders.gov.in)

PRICE Rs.25.000/-

**E-TENDER DOCUMENT**

**A**

**PURCHASE OF 3 TESLA MRI MACHINE AGAINST  
BUYBACK OF OLD MRI MACHINE (Make –  
Siemens, Model – Magnetom Avanto)  
FOR SHRI SAIBABA HOSPITAL, SHIRDI.**

Dates for Submission Of Tenders:  
03/02/2018 FROM 10 A.M. TO 16/02/2018, 5 P.M.

NAME OF TENDERER:

ADDRESS:

## SHRI SAIBABA SANSTHAN TRUST, SHIRDI

Interested eligible Tenderers may obtain further information of technical specifications, required quantities and other terms and conditions applicable for procurement of enclosed items from the e-tendering Website: <http://www.mahatenders.gov.in>

### E-TENDER SCHEDULE

All bid related activities (Process) like Tender Document Download, Bid Preparation and Hash submission, bid submission and submission of EMD and other documents will be governed by the time schedule given under Key Dates below:

Publish Date :	03/02/2018
Document Download & Sale Date :	03/02/2018
Pre Bid Meeting Date : Venue - Saibaba Hospital 11.00Am	05/02/2018
Bid Submission Start Date (Online) :	07/02/2018
Closing of Bid Submission (Online) :	16/02/2018
Date of Opening of Technical Bid (Online) :	17/02/2018
Address for communication :	Chief Executive Officer, Shri Saibaba Sansthan Trust's Shri Saibaba Hospital, Shirdi - 423 109. Tal - Rahata, Dist - Ahmednagar. Phone No. 02423 - 258671-676

1. If you wish to give discount for a Charitable Trust it should be incorporated in total price. But 'Nil' Tenders shall not be accepted. (i.e. Price Quoted as Zero.)
2. No Need to Submit or provide hard copy of any documents, the technical evaluation will be done only on the basis of uploaded document.
3. You have to deposit the amount of EMD & Tender form fee directly to the following account number of Sansthan. (Corporation Bank, Shirdi Saving Account No.- 146400101000001, IFSC Code - CORP0001464) in the name of Chief Executive Officer, Shri Saibaba Sansthan Trust, Shirdi.
4. The tenders shall be rejected summarily upon failure to follow procedure prescribed in the Tender document. The conditional tender is liable to be rejection.
5. Online Commercial bid shall be opened as per e-tendering procedure after opening of Online Technical Bid only if contents of Technical Bid to be in accordance with the tender conditions stipulated in the tender document. Likely date and time of price bid opening will be intimated to you electronically by the purchaser separately to the eligible tenderers.
6. Shri Saibaba Sansthan Trust, Shirdi reserves the right to increase or decrease the quantity to be purchased and also reserves the right to cancel or revise the tenders or part of tenders at any stage without giving any reasons thereto.

**CHIEF EXECUTIVE OFFICER,  
SHRI SAIBABA SANSTHAN TRUST, SHIRDI.**

## *Check List*

The following copies of original documents should be scanned & upload online

Sr.No.	Documents to be Submitted	Page No.
1	Letter from Tenderer about Tender Acceptance (As per Annexure VI)	
2	Information about Tenderer (As per Annexure II)	
3	Scan Copy of UTR number for EMD if possible scan copy of acknowledgement. (As per Annexure VII)	
4	Scan Copy of UTR number for Tender Form Cost if possible scan copy of acknowledgement. (As per Annexure VII)	
5	PAN Card	
6	GST Registration Certificate.	
7	Annual Turn Over for last 3 years duly Certified by CA.	
8	Authorisation Letter of Concerned Company / Manufacturer.	
9	Technical Specification compliance Schedule (As per Annexure VIII)	
10	Self declaration about not being black listed by any Hospital run by Government / Semi Government /Municipal Corporations. (As per Annexure IV)	
11	Company Data Sheet of the Product along with the coloured brochure	
12	Certificate : USFDA / CE Mark of quoted company product as applicable.	

*Annexure "I"***Letter about invitation of Tender**

NO.SSS/WS/SSBH/STORE/(P/S)/  
DATE :-

/2018

TO,

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SUBJECT: SUPPLY OF 3 TESLA MRI MACHINE AGAINST BUYBACK OF  
OLD MRI MACHINE (Make - Siemens, Model - Magnetom Avanto)  
FOR SHRI SAIBABA HOSPITAL, SHIRDI.**

Dear Sir,

SHRI SAIBABA SANSTHAN TRUST, SHIRDI registered under the BPT Act. 1950 and having its registered office at Shirdi runs Public Charitable 200 bedded Shri Saibaba Superspeciality Hospital & 200 bedded Shri Sainath General Hospital at Shirdi invites sealed Tender from the eligible & qualified manufacturers / distributors, who met the requirement for the supply of above items.

Shri Saibaba Sansthan Trust, Shirdi reserves the rights to reject any or all tenders without assigning any reasons thereof.

Yours Sincerely,

**CHIEF EXECUTIVE OFFICER,  
SHRI SAIBABA SANSTHAN TRUST, SHIRDI.**

*Annexure "II"*  
*Information about Tenderer*

- 1) Name of Tenderer:
- 2) Permanent Address for Correspondence:
- 3) Ph. No. Office / Authorised person :  
    Mob. No.         :  
    Factory         :  
    Fax No.         :  
    E-mail         :
- 4) Name of Owner / Partner / Director:
  - 1)
  - 2)
  - 3)
- 5) GST No. :
- 6) PAN No. :
- 7) RTGS (Real Time Gross Settlement)  
    System or Core Banking A/c No.:

Thanking you.

Yours Sincerely,

Sign -

Name -

Designation -

*Annexure "III"*  
*SHRI SAIBABA SANSTHAN TRUST, SHIRDI.*  
AT. PO. SHIRDI. - 423109  
TAL. RAHATA DIST. AHMEDNAGAR (MS)

**E-TENDER**

**E-TENDER FOR SUPPLY OF 3 TESLA MRI MACHINE AGAINST BUYBACK  
OF OLD MRI MACHINE SUPPLY OF 3 TESLA MRI MACHINE  
AGAINST BUYBACK OF OLD MRI MACHINE (Make - Siemens,  
Model - Magnetom Avanto) FOR SHRI SAIBABA HOSPITAL, SHIRDI.**

**TERMS AND CONDITIONS**

**Please read the Terms & Conditions carefully before filling the tender.**

**01. Introduction : -**

1.1 Interested eligible Tenderers may obtain further information of technical specification, required quantities and other terms and conditions applicable for procurement of item from Shri Saibaba Sansthan Trust, Shirdi E-tendering website : <http://www:mahatenders.gov.in>

1.2 All tender related activities (Process) like Tender Document Download, Tender Preparation and Hash submission, Tender submission and submission of EMD and other documents will be governed by the time schedule.

**02. Cost of bidding -**

The tenderer shall bear all costs associated with the preparation and submission of their online tenders and the Purchaser will in no ease be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

03. At any time prior to the deadline for Sale of tender, the Purchaser may amend the tender documents by issuing Addenda / Corrigendum.

04. To prepare and submit the tender/offer online all bidders are required to have etoken based DIGITAL CERTIFICATE. Digital signature certificate should be obtained from competent authority. However the e tender website or helpline numbers may guide you for obtaining the same.

05. Authorization letter nominating a responsible person of the tenderer to transact the business with the Purchaser.

06. The name of the Manufacturer, details of packing, rate per unit, total cost etc details shall be mentioned in the tender.

07. The tenderer must quote details of size, make, model, etc clearly along with coloured brochure. In absence of these details, tender will not be considered.
08. The rates are to be given F.O.R., **Shri Saibaba Hospital, Shirdi** inclusive of all taxes, transportation etc. No extra amount will be paid for packing, forwarding, transportation etc.
09. We have our own IEC code & you will directly import in our name only.
10. The specifications of the machine to be installed shall not be in anyway of lower specification / configuration as mentioned in the tender otherwise the bid shall be rejected. Approved firm shall install brand new machine within 180 days from the date of signing of the agreement. For delayed installation a penalty of Rs.10,000/- per week shall be levied. If the delay prolongs more than 30 days the order would stand automatically cancelled & security deposit shall stand forfeited.
11. Validity: The quoted rates must be valid for a period of 60 days from the date of receipt of customs duty exemption certificate the same.
12. Equipment should be USFDA and or European CE approved / certified.
13. In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.
14. In case of price is in INR, GST, Custom duty and other taxes should be clearly specified in addition to the basic cost while quoting the total cost. In the BOQ the rate of the product should be mention including GST, Custom duty & any other taxes applicable & Transport Loading, downloading.
15. **Delivery and Installation:** The items shall be delivered within the stipulated time as per agreement to be signed. Satisfactory installation / commissioning and handover of the items will be completed within two weeks from the date of receipt of the goods at the SSST, Shirdi premises. The successful tenderer will also provide required training for supplied items at SSST, Shirdi.

All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, then a penalty at the rate of 2% per week of the total order value shall be levied subject to maximum of 10% of the total order value. The successful tenderer will also provide required training for supplied items at SSST, Shirdi. The goods should be manufactured with adoption of latest technology.

If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the SSST, Shirdi for extension of the delivery schedule accordingly. On receiving the supplier's communication, the SSST, Shirdi shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

16. In case of price is in foreign currency & if it is decided during negotiation that payment will be made in foreign currency in that case, Payment will be made by irrevocable Letter of credit in favour of your principal company. Custom duty, clearance charges, other duties / taxes if any it should be clearly mentioned in commercial bid. Delivery will have to be made at Shirdi through Jawaharlala Neharu Port Trust (JNPT) Mumbai for custom clearance purpose Shirdi area is under Nashik Zone.
17. **Custom Clearance:** For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concession.
18. Rate of duty shall be as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. Transportation of goods up to SSST, Shirdi and its successful installation and commissioning is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier. NO DEMURRAGE / WAREHOUSE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC.
19. Authorised dealer should submit latest copy of authorisation letter of the concerned company / manufacturer. If not submitted tender may liable for rejection.
20. Online Technical Bid of the tenderer will be opened in the presence of tender opening authority through e-tendering procedure.
21. There should be no collusive or fraudulent practice involved in the entire tendering process amongst all the tenders received.



22. The tenderer will have to supply material along with **Three** copies of bills one copy of delivery challan, if payment is delayed due to Tax invoice Sansthan will not be responsible for it.
23. Wherever an amount is mentioned in figures the same should be clearly written in words also.
24. No escalations, for any reason will be given / allowed in the quoted prices.
25. Substitute or alternative provisions / quotations are not acceptable.
26. In case of breakage / damage in transit, prior to the delivery & satisfactory installation to the Sansthan supplier will have to replace the same immediately, failing which payment will be stopped until satisfactory replacements.
27. The Tendered Items should be delivered within stipulated period, if supplier fails to deliver, the order will be treated as cancelled and your earnest money deposit/ Security Deposit will be forfeited.
28. **Payment Terms:** Payment for goods supplied from India:  
a. 90% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the inspection report.  
b. Balance 10% of the order value shall be released after the submission of the performance security.
29. **Payment for Imported goods:** For imported goods payment shall be made in the following manner:  
**a) On shipment:** 75 % payment of the contract price shall be paid within 60 days after presentation of shipping documents. Goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon the submission of the following documents:  
i. Four copies of Supplier's invoice showing contract number, goods description, quantity, and unit price and total amount;  
ii. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/ Airway bill.  
iii. Insurance Certificate;  
iv. Certificate of origin by the chamber of commerce of the concerned country;  
v. Certificate of country of origin;  
vi. Manufacturer's / Supplier's warranty certificate;  
vii. Manufacturer's own factory inspection report.

**b) On Acceptance:** 15 % payment would be made after satisfactory installation & commissioning on issuance of Inspection certificate by the SSST, Shiridi.

**c)** Balance 10% will be paid on submission of Performance Bank Guarantee issued by any Nationalised Bank/ Scheduled Bank.

*Note:-The supplier shall not claim any interest or any other payment under the contract.*

**30.** No interest will be paid on retention money / security deposit or earnest money deposit.

**31. While quoting the rates wherever Optional Accessories or the Contents of the set or UPS / Stabiliser etc. is required the price of such extra items should be incorporated in total amount.**

**32. While quoting the rates it should be filled in the on line BOQ only.**

**33.** The successful tenderers will have to deposit 5% security deposit of the total value of purchase order at the time of issuing purchase order at no any interest will be paid by Sansthan

**34. Incidental Services:** The supplier shall be required to perform the following services:-

- a. Installation & Commissioning, Supervision and Demonstration of the goods.
- b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- c. On Site training to Doctors/ Technicians/ Staff / Biomedical Engineers is to be provided by Supplier for operation and maintenance of the equipment to the satisfaction of the user department.
- d. Supplying required number of operation & maintenance manual for the goods.
- e. To provide non-locked open software and standard interface inter-operability conditions for networked equipment's in hospital management information system, wherever applicable.

**35. Accessories & Consumables:** The separate price list of all accessories and consumables, if any, must be attached/ enclosed along with the Financial Bid.

**36. After Sales Service:** After sales service centre should be available on 24 (hrs.) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 24 hrs to ensure an uptime of minimum 95%, wherever applicable, failing which the necessary penalty measures shall be enforced.

**37. Inspection:**

- a. The Chief Executive Officer, SSST, Shirdi shall be the final authority to reject full or any part of the supply which is not conforming to the specification and other terms and conditions.
- b. No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks from the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

**38. Documents:**

- a. The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified

by the purchaser in the tender documents. For this purpose the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the tender documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.

- b. The bidder shall provide a list of major Government and Private Institutions where its relevant bid item has been supplied during last two year.

**39. Insurance:** - The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. If the equipment's is not commissioned and handed over to SSST, Shirdi within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the SSST, Shirdi.

**40. Fall Clause:** - The tenderer shall give certificate that item is being supplied at lowest rates.

41. T.D.S. will be deducted from your bill as per the Government rule applicable.

42. Average annual turnover of last Three year should be more than 10 Crore.

43. Late submitted tender will not be accepted after due date.

**44. Guarantee / Warrantee Period:** The Tenderers must quote for 5 years comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive

Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). If post warranty CMC rates are not quoted, they shall be treated as Zero. The price comparison shall be taking into account basic price, post warranty CMC and buyback price if any.

45. **Uptime guarantee:** The firm should provide uptime guarantee of 95%.
46. **Downtime penalty Clause**
- a. During the comprehensive warranty period, the guaranteed uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit, penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handing over the unit to the Institute. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.
  - b. The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee
47. All the above equipments shall be new and manufactured from vergin materials. All the requirements of this supply shall be sourced from the original equipment manufacturer of the model quoted. In case the machine is imported, no import substitution is permitted neither before the award nor after the award for any part or accessory.
48. Any accessory / accessories not mentioned specifically but required to make system working will have to be supplied without any extra cost.
49. Also has to give annual charges for next five years extended comprehensive Maintenance contract with the same term.
50. Equipment mentioned in the Technical specifications shall operate on 230 V, 50 Hz, single phase electric supply.
51. The necessary protective relaying/circuitry shall be there with the machines.
52. The equipment shall have valid CE marking/ FDA approval and documentary evidence to that effect shall be submitted.

53. The equipment shall be having warranty of five years. The warranty and CMC shall cover the batteries and lamps irrespective of whether those are treated as consumables or otherwise.
54. The equipment should be provided with one hard copy in original of the detailed service manual and operation manual. Further, a soft copy is also required.
55. Repairs and maintenance training to two Biomedical Engineers should be given.
56. The equipment must be tropicalized as below:  
Working temperature: Max. 35° C  
Storage temperature: Max. 50° C  
Relative humidity for Working: 40 - 60 %  
Relative humidity for Storage: Max. 90%
57. The product should be time tested, branded and should be OEM.
58. Shri Saibaba Sansthan Trust, Shirdi reserves the rights to reject any or all tenders at any stage without assigning any reasons thereof.
59. All the suits arising out of the contract shall be instituted in the court of competent jurisdiction situated in Rahata / Kopargaon Court only and not elsewhere.

**CHIEF EXECUTIVE OFFICER,  
SHRI SAIBABA SANSTHAN TRUST, SHIRDI.**

*Annexure "IV"*  
*Self Declaration*

DATE :     /     /2018

TO,  
THE CHIEF EXECUTIVE OFFICER,  
SHRI SAIBABA SANSTHAN TRUST, SHIRDI.  
AT PO. SHIRDI - 423 109  
TAL - RAHATA,  
DIST. AHMEDNAGAR.

In response to your E-Tender we are submitting our Tender for supply of 3Tesla MRI Machine against buyback of old MRI Machine (Make - Siemens, Model - Magnetom Avanto) on your Website. I / We hereby declare that our firm has not been found guilty of malpractice / misconduct / black listed / debarred either by health by Public Health Dept., Govt. of Maharashtra or by any local authority and other State Govt. / Central Govt. Organisation in past three years for the quoted items in the Tender.

Signature & Stamp of Tenderer

Date -

**(Tenderer will have to upload self affidavit on their Letter Head with Authorise Person signature and stamp.)**

*Annexure "V"***Annual Turn Over Statement for Three Years**

The **Annual** Turnover of M/s. .... for the past three years are given below and certified that the statement is true and correct.

Sr. No.	Year	Turnover Rs. in Lakhs / Crores
1	2014-15	
2	2015-16	
3	2016-17	
	Average of the above Three Years.	

Date:

Seal :

Signature of Auditor/  
Chartered Accountant  
Name (in capital letters)

*Annexure "VI"*  
Acceptance Letter from Tenderer

DATE :        /        /2018

TO,  
 THE CHIEF EXECUTIVE OFFICER,  
 SHRI SAIBABA SANSTHAN TRUST, SHIRDI.  
 AT PO. SHIRDI - 423 109  
 TAL - RAHATA,  
 DIST. AHMEDNAGAR.

**SUBJECT : SUPPLY OF 3 TESLA MRI MACHINE AGAINST BUYBACK  
 OF OLD MRI MACHINE (Make - Siemens, Model - Magnetom Avanto)  
 FOR SHRI SAIBABA HOSPITAL, SHIRDI.**

Dear Sir,

Having examined the tender document, the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and deliver the goods under the above-named Contract in full conformity with the said tender document and our financial offer in the Price schedule submitted in Online E-Tender which is made part of this tender.

We undertake, if our tender is accepted, to deliver the goods in accordance with the delivery schedule specified in the tender document.

If our tender is accepted, we undertake to submit the security deposit in the form DD / RTGS / Cash / Current Invoice, and within the times specified in the tender document.

We agree to abide by this tender, for the Tender Validity Period specified in the tender document and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this tender together with your written acceptance of the tender and your Acceptance of Tender, shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any tender you may receive.

Signed: .....

Date: .....

Duly authorized to sign this bid for and on behalf of .....

Thanking you.

Signature & Stamp of Tenderer

Date -



*Annexure "VII"*

**Shri Saibaba Sansthan Trust's Shri Saibaba Hospital, Shirdi**

*Purchase of 3 Tesla MRI Machine against buyback of old MRI Machine for Shri Saibaba Hospital.*

Name of Tender : .....		
<b>About Details of EMD UTR</b>		
1	UTR No. of EMD Amount :	
2	Deposited Amount of EMD:	
3	Name of Bank :	
4	Date of Payment :	
<b>About Details of Tender Cost UTR</b>		
1	UTR No. of Tender Form Cost :	
2	Deposited Amount of Tender Cost :	
3	Name of Bank :	
4	Date of Payment :	

Signature & Stamp of  
Firm / Company

(Note : If you fails to upload your UTR No. your tender may liable for rejection.)

**SHRI SAIBABA HOSPITAL, SHIRDI  
TECHNICAL SPECIFICATION WITH COMPLIANCE REPORT**

*Annexure "VIII"*

3 Tesla MRI Machine against buyback of old MRI Machine (Make – Siemens,  
Model – Magnetom Avanto) for Shri Saibaba Hospital.  
Qty – 1 No.

Technical Specification	We Comply
Specifications for 3T MRI System with five years Warranty and buyback of old MRI Machine	
<b>TECHNICAL SPECIFICATIONS OF 3.0 T MRI</b>	
Technical Specification for Supply & Installation of Whole Body 32 channel or more / Digital 3 Tesla Magnetic Resonance Imaging System with State of Art advanced Technology. The latest technology model should be quoted which matches the specifications	
<b>Supply and Installation of advanced Whole body 3 Tesla Magnetic Resonance Imaging System:</b>	
(Note: The essential features mentioned below should be verifiable from catalogue/technical brochure of equipment for the offered model of the equipment and vendor must specify page, paragraph and line number in technical literature that indicates compliance. For all other points of QR, the vendor must clearly state willingness to supply the item/comply with the given requirement by mentioning YES or No. Bids with incompletely filled compliance statements will be summarily rejected. Latest version of quoted equipment and accessories available in the market at time of issue of supply order is to be supplied by the firm.)	
<b>MAGNET</b>	
A) Whole body 3Tesla Magnetic Resonance Imaging system optimized for higher performance in cardiac and neurological examinations with short superconducting magnet, high performance gradients and digital Radio frequency system. The system should have True 32 channels RF system with 32 independent ADC. The system should be totally new and should not contain refurbished or having recycled items. The features should be minimum of that launched at the latest RSNA.	
B) System should be compatible and ready to use for EEG applications	
C) It should have at least 70 cms or more patients bore with flared opening.	
D) Smallest foot print of the magnet is preferred with light weight.	
E) The magnet should be shielded from the external interferences	
F) It should have facilities of better illumination, ventilation and designed to avoid patient claustrophobia & with built in 2 way intercom for communication with patient.	
G) The homogeneity of the magnet should be mentioned in relation to 10, 20, 30, 40 & 45 cm DSV.	
<b>H) Guaranteed Homogeneity of magnet (VRMS Method) should be as follows:</b>	
1. At 10 cm DSV : specify	

Technical Specification	We Comply
2. At 20 cm DSV : specify	
2. At 30 cm DSV : specify	
3. At 40 cm DSV : specify	
4. At 45 cm DSV : specify	
I) Please specify upto what FOV gradient linearity is maintained.	
J) The FOV (Field of view) in X, Y, & Z directions should be: 45cms or more.	
K) The scan range for imaging should be 200cms or more. Magnet with Higher Scan range will be preferred.	
L) Magnet should be shielded from external interferences. Smaller fringe field preferred 5 Gauss and 10 Gauss Line in X, Y, Z axis specify yours Quote value for 5 gauss and 10 gauss line. The 5 Gauss line will have to be marked.	
M) Cryogen vessel _to be of Helium only with appropriate super thermal shielding and refrigeration facility for minimum Helium boil-off, Specify the Helium tank capacity and boil-off rate.	
N) Emergency helium release button should be provided at least in two places [inside MR examination room and console room]	
O) Capability to operate the system from the Gantry Side control assisted with display screen on the magnet if available will be added advantage	
<b>SHIM SYSTEM</b>	
A) High performance, highly stable shim system with global and localized automated shimming for high homogeneity magnetic field for imaging and spectroscopy.	
B) Auto shim should be available to shim the magnet with patient in position	
C) Time taken for shimming should be less than 3secs	
D) Please specify whether second order shimming is required for better results on spectroscopy studies for the quoted model. If yes the same should offered as standard.	
E) Specify whether off center FOV shimming is required. if yes, please specify the details.	
<b>GRADIENT SYSTEM</b>	
A).The System should have <u>minimum gradient 44 mT/M or above with Optimum slew rate</u> , TE TR parameters to drive to applications like Diffusion , Perfusion , Fibre Track , Spectroscopy Single and Multi voxel, Non contrast Angio, Flow studies , Cardiac package excluding coronary	
B) These true slew rates should be available in each axis independently, for overall better duty cycle performance of the gradient.	
C) The duty cycle should be 100 percent.	
D) Field of View should be at least 45 cm in all three axes.	
E) The Gradient system should have provision for eddy current compensation.	
F) Minimum TE & TR in 2D/3D should be specified in relation to the sequences.	
G) Minimum Slice Thickness in 2D & 3D should be specified in relation to the sequences.	
H) Echo Train length in both Spin echo and Gradient Echo should be at least 255 or more.	
I) The measurement matrix should be from 128x128 to 1024x1024 in both 2D and 3D imaging as well.	

Technical Specification	We Comply
J) Effective cooling system for gradient coil and power supply.	
<b>RF SYSTEM</b>	
A) A fully digital RF system like Direct RF, Optix, dStream. RF system capable of transmitting power of at least 25 KW or more (dual) with a combination of RF power amplifiers. System should be offered with <u>Multi Transmit /Multi Drive /Tim TX True shape.</u>	
B) It should also have at least minimum of 64 independent ADC hardware RF channels without multiplexing ,with each having bandwidth of 1MHz or more along with necessary hardware to support Quadrature/CP array coils. (capability of faster reconstruction, please specify)	
C) It should support Parallel acquisition techniques like ASSET/SENSE/iPAT /Sence/Grappa/ dS-Sense with a factor of at least 4. Higher sectors if available should be offered optionally.	
D) Should allow remote selection of coils and/or coil elements.	
<b>PATIENT TABLE &amp; COMMUNICATION</b>	
A) The table should be fully motorized, computer controlled table movements in vertical and horizontal directions	
B) The table should have facility for manual traction in case of emergency.	
C) Cushions and other patient comfort accessories. All parts of the table should be protected from liquid spill	
D) A CCTV system with LCD display to observe the patient should be provided.	
E) The table should deliver the protocols for automatic bolus chasing in peripheral angio with automatic table movement.	
F) There should be a hand held alarm for patients	
G) Table should be able to handle patient weight of 200kg or above.	
H) MR compatible patient shifting trolley should be offered as standard.	
<b>SYSTEM COIL &amp; RF COIL</b>	
A) The system body Coil integrated to the magnet must be quadrature /CP. In addition to this coil, following Coils (preferably be with equal number of elements as the channels) be quoted. RF coils in addition to main body coil (Transmit / Receive or receive coils) auto tune, array or no tune coils. Coils for the following applications should be available with the system. Coil / RF design should support compatibility to coils manufactured by other manufacturers. If one coil can cover multi applications please mention it. Please confirm that the system can adapt to coils developed and manufactured by other manufacturers. Please substantiate this with examples. Please specify the measures taken to prevent dielectric artifacts? (Quadrature design & EPI compatible) in addition to main body coil. All array coils should be compatible with parallel imaging technique/s. Please specify the number of channels and elements available for each coil. Please mention the true acceleration factor for each of the array coils. The system Body coil should have transmitt and receiving capability. Specify no. of channels for body coil.	
B) All coil offered should have SENSE / Ipat2 / GEM compatibility. System body coil should be able to do metastasis study for fully Body.	
C) Please offer coils to do high resolution head, neck, spine in one go up to 75cm coverage with parallel imaging techniques	
D) Multichannel Head Neck coils with at least <u>20 Elements</u> for high resolution	

Technical Specification	We Comply
brain imaging.	
E} Spine Array/Matrix Coils for thoracic and lumbar spine imaging - atleast 32 elements or more. "higher number of elements preferred". Kindly specify no. of elements offered.	
F} Body Array/Matrix coil with at least 45 cm coverage for imaging of whole abdomen. At least 28 Elements or more , with Single coil or more in combination to cover 45cm FOV in single go without patient repositioning. "higher number of elements preferred". Please specify the length of the body coil & no. of elements	
G} Specify the coil to perform cardiac imaging - 28 Elements and above	
H} Dedicited Bilateral Breast Coil with at least <u>16 channel</u> or more with biopsy grid and compression pads. Coils should be capable of doing breast spectroscopy	
I} Dedicated coil for knee imaging with minimum of 16 channel	
J} Please offer dedicated coil for shoulder imaging	
K} General purpose wrap around flexible coils for Knee & Wrist imaging - the coil elements & channels should be atleast 6 channel or more with parallel imaging capability. Higher elements preferred	
L} 32 channel Head Coil for High end Neuro imaging	
M} Coil storage cart	
<b>APPLICATION SEQUENCES</b>	
A} The system should have basic sequences package with Spin Echo, Inversion Recovery, Turbo Spin Echo with high turbo factor of 256 slice or more. Gradient Echo with ETL of 255 or more FLAIR.	
B} Single Slice, multiple single slice, multiple slice, multiple stacks, radial stack and 3D acquisitions for all applications	
C} Single and multi shot EPI imaging techniques with ETL factor of 255 or more.	
D} Fat suppression for high quality images both STIR and SPIR	
E} The system should acquire motion artifact free images in T2 studies of brain and whole body in restless patients also less sensitive to motions such as CSF and blood flow or flow artifacts, breathing, patient tremor or voluntary movements. Motion artifact free imaging with Diffusion weighted studies and muskuloskeletal studied will be added advantage. This application to be compatible with PAT - likw Propeller 3.0, Multivane XD, Presto, Snapshot, Blade etc, also offer body navigators	
F} Dynamic study for pre and post contrast scans and time intensity studies	
G} MR Angio imaging : Should have 2D/3D TOF, 2D/3D PC, MTS and TONE, ceMRA, facilities for Accelerated time resolved vascular imaging with applications like Twist/Tracks/Tricks sequences.	
H} Fat and water excitation package. Diffusion Weighted imaging. With at least B value of 5000 or more	
I} Bolus chasing with automatic and manual triggering from fluoro mode to 3D acquisition mode with moving table facility.	
J} Offer all the Non contrast enhanced MR angiography like Native Space, Native True FISP, QISS, Trance, B Trance, Inhance In-Flow IR, Inhance Delta flow, Inhance Velocity	
K} Whole body screening imaging studies for metastasis - head to toe coverage without patient repositioning should be offered.	

Technical Specification	We Comply
L) whole body diffusion weighted imaging with background suppression – please specify the techniques used and specify time taken for head to toe coverage.	
M) High resolutions Abdominal and liver imaging in breathhold and free breathing modes with respirator triggered volume acquisitions.	
N) The system should have basic and advanced MRCP packages including free breathing and 3D techniques	
O) The system should facility for flow quantification of CSF, Vessel flow and hepatobiliary system.	
P) The system should have the hydrogen, Single Voxel spectroscopy, multivoxel, Multislice & Multiangle 2D, 3D Spectroscopy and chemical shift imaging in 2D/3D. The complete processing/post-processing software including color metabolite maps should be available on main console. Complete prostate spectroscopy hardware and applications should be provided. Spectroscopy for breast like Brease , Grace, and prostate also to be offered.	
Q) A) Advanced Cardiac applications, Cardiac Specialist , Coronary Specialist , Cardiac Suite, Syngo Beat - offering applications Like Listed: ECG gating, Morphology/wall motion; Cardiac perfusion imaging; Myocardial viability imaging; Arrhythmia rejection techniques, Advanced Cardiac Ventricular Measurement Analysis; Cine Cardiac Tagging Techniques; Coronary Ventricular Measurement Analysis; Cine Cardiac Tagging Techniques; Coronary artery techniques; real time interactive imaging, 2D/3D fast field echo/balanced/steady state techniques, Ejection fraction etc. to be offered on console /workstation.	
Q) B) Analysis & Reporting package to be offered on atleast one workstation like Advance Cardiac VX/ Argus Viewer, Syngo MR Software package, Report Viewer, Flow quantification, Q flow analysis, Cardiac MR Functional Analysis, Cardiac Reporting, Coronary Analysis, Quad Movie tool.	
R) Advanced breast imaging package. Please offer High-resolution 3D isotropic fat-suppressed gradient-echo T1W imaging of both breasts simultaneously - Like Syngo Views, Vibrant, Bliss + eThrive. Should be PAT compatible	
S) Perfusion imaging of brain and breast with software for analysis	
T) Susceptibility weighted imaging to detect micro bleeds with phase for differentiation of calcium - Like SWI, SWIP, SWAN	
U) Multi Direction DWI and DTI with min 128 directions, kindly specify the no. of directions available. Prospective motion correction enabled software preferred. Fibertrack, Fibertrack Specialist, Syngo DTI tractography	
V) Functional imaging with package for BOLD imaging like, Syngo Bold, Bold Specialist and evaluation line Inline Bold, Iview Bold and spectroscopic imaging and processing package.	
W) Arterial spin labeling sequences of brain with software applications Like 3DASL, pCASL. This should have auto analysis also as standard. 3D sequence will be preferred.	
X) High resolution 3D imaging for inner ear.	
Y) High resolution imaging for cartilage and musculoskeletal imaging	
Z) Advanced 3D spine applications package for nerve root analysis/Peripheral nerve imaging	
AA) Please quote to do high resolution 3D isotropic sequences for spine like CUBE, SPACE, VISTA	

Technical Specification	We Comply
BB) Please quote for high resolution time resolved angiography like TRICKS, TWIST, TRACS +Key Hole	
CC) Please quote for in phase/out phase 2D/3D Dual echo sequences for body applications	
DD) Please offer for automated Planning, scanning, for Brain as standard like Ready Brain, Brain Dot & Smartexam Brain.	
EE) Please offer for 3D isotropic fat-suppressed gradient-echo T1W imaging of the organs like Bravo, T1 Vibe, e-Thrive	
FF) Is there a method to create T1W isotropic imaging with multiple arterial phases in a breathhold like Lava, Vibe, Thrive	
GG) Please offer for coil signal homogeneity correction like PURE/ CLEAR/ Prescan Normalize, Please specify the technique and also mention if we need di-electric bags	
HH) Please offer Non contrast MRA with triggering	
II) Head first or feet first for all imaging	
JJ) Advance Diffusion weighted imaging like eDWI/Reveal/DWIBS	
KK) Single sequence for Inphase, out of phase, water only & fat only like mDixon, IDEAL, Dixon	
LL) Single sequence for Triglyceride Fat and iron .quantification software for Liver should be offered - Like IDEAL IQ, Liver LAB, mDixon Quant . Also quote the iron quantification package for Liver and cardiac	
MM) MR Elastography - offer hardware and software . Please quote as standard	
NN) Software for fusion imaging CT/PET/SPECT/USG	
OO) Parallel acquisition technique such as SENSE/SMASH/ ASSET/iPAT, ARC /dS-Sence and other new sequences to be quoted as standard.	
PP) T2 cartilage coloured mapping sequence for early detection of osteoarthritis like Map IT, Cartigram, T2 Mapping	
QQ) Focused Imaging like ZoomIT/FOCUS/ equivalent of Focused FOV for Diffusion study should be provided. RF Focussed Imaging for clinical application of high SNR even in small FOV should be available.	
RR) <u>Protocol to reduce the gradient noise without affecting the image quality</u> & sequence to be offered without compromising on gradient and slew rate- describe the technique used. specify the sequences and sound in db. Specify the sequences compatible/ offered with silent mode. Also offer silent sequence along with motion correction, MSK, SPINE & Diffusion Mention what all silent application available. Give the price quote separately	
<b>COMPUTER SYSTEM IMAGE PROCESSOR / OPERATOR CONSOLE</b>	
A) Computer should be latest in the industry, fast and efficient	
B) One color console for acquisition, all calculations, post processing etc Console must have full colour with user define protocols with programmable inter scan delay	
C) Necessary image processor with large RAM for ultra-fast image reconstruction should be provided It should be at least 48 or higher GB RAM. Please specify RAM and reconstruction speed in images per second for full FOV 256 matrix. Higher will be preferred.	

Technical Specification	We Comply
D) Computational Speed to match the single shot Echo Planar Imaging (EPI). Interactive angiogram, multi-planar three dimensional (3D) reconstruction, surface rendering, dynamic Imaging, vascular Imaging/angiography. functional imaging, DTI etc. The main host computer should have at least 18-inch or more TFT/LCD type color monitor.	
E) The main console should have facility for music system for the patient in the magnet room.	
F) Filming and adequate storage for images and other applications..	
G) Total hard disk memory to be sufficient to store at least 250,000 images of 256 x 256 matrix data size.. Systems offering higher' storage will be preferred. The system should have CD/DVD archiving facility on the main console and work station.	
H) Dual DVD write/CD Read/Rewrite drive for writing of images, spectra and raw data along with the necessary software for reading the Images and spectra on DVD/CD storing capabilities. Provision for archival of k-space data and raw (unprocessed) images.	
I) There should be a provision of retrieval of the reconstruction data (raw files) in an user friendly manner.	
J) DICOM interface to hook DICOM dry/laser camera capable of storing printing 1024 x 1024 matrix size images at least in 16 formats without loss of digital resolution.	
K) The system should be capable to connect to PACS through RIS/HIS at no extra cost. Highest version of DICOM connectivity be provided.	
L) Remote diagnostics	
<b>WORKSTATION - Advantage/Syngo via/ Intelli space portal workstation</b>	
A) <u>One independent multimodality and Multivendor</u> workstation like Advantage/ syngo Via / ISP explore with preferably the same user interface as of main console is required with the availability of all necessary software including basic post processing software including MIP, MPR, surface reconstruction and volume rendering technique advanced post-processing offered applications like Syngo MR, Exam Preparation & Processing package , including perfusion quantification, MTT,TTP, advanced diffusion and DTI, processing 2D/3D CSI data, with color metabolite mapping, Diffusion color maps, quantification of CSF flow date, vascular analysis package, fusion, breast analysis. Both console and workstation should have licenses to do fibreTactography, spectrography, functional. 3 clients with one floating licenses on the 3 clients . So applications should be offered on main console and one floating licenses on 3 clients should be available.	
B) It should have at least 19 inch LCD TFT color monitor, with hard disk of at least 120 GB for at least 250,000 image storage in 256 matrix, and 48 GB RAM capacity or more, with self-playing DVD/CD archiving facility.	
C) The workstation should display cardiac cine images in movie mode with rapid avi creation	
D) The workstation should enable printing in laser film camera and color printers. All Software applications that are asked on the console should be available on workstation also along with the above specified applications without any exceptions as standard.	



Technical Specification	We Comply
<p><b>Additional Workstation (Satellite Console)</b> : to be placed at another location ,One workstation with Colour TFT display (19" or more ) with equivalent capabilities like MIP,MPR, surface reconstruction, spectral analysis, perfusion and diffusion studies, tensor mapping, tractography,4D ventricular function, spectroscopy post-processing (SVS,CSI,metabolic imaging) etc.</p>	
<p><b>SAFETY FEATURES</b></p>	
<p>A) The magnet system should include an Emergency Ramp Down unit ERDU for fast reduction of the magnetic field with Ramp Down time below 3 minutes</p>	
<p>B) The magnet should have quench bands that contain the fringe fields to a specified value in the event of a magnet quench</p>	
<p>C) Real time SAR calculation should be performed by software to ensure that RF power levels comply with regulatory guidelines and are displayed on each image</p>	
<p>D) The system shall have manual override of the motor drive for quick removal of the patients from the magnet bore</p>	
<p>E) Temperature sensor (built in) for magnet refrigeration efficiency must be provided</p>	
<p><b>SUITABLE RF ENCLOSURE</b></p>	
<p>A) RF cabin: The system should be supplied with RF cabin &amp; RF room shielding, RF Door screen, and interiors for the same should be carried out suitably</p>	
<p><b>ACCESSORIES</b></p>	
<p>A) Water chiller for Cold Head/Gradients</p>	
<p>B) Non-ferromagnetic patient transfer trolley of international make should be provided (2 nos.)</p>	
<p>C) 3 T MR compatible <u>Dual head</u> Pressure injector with 500 syringes : with facility for continuous battery charging</p>	
<p>D) 3 T MR compatible <u>Multipara Monitor</u> : Monitor with remote display ( ECG,NIBP,SPO2,ETCO2) along with infusion pump with remote display having common single wireless network system for both. The multipara monitor should be upgradable.</p>	
<p>E) 3T Compatible <u>Anesthesia System</u> : For paediatric and Adult use with anaesthetic Ventilator and accessories having separate indexed provision for connecting central pipeline supplies of oxygen and two nitrous oxide cylinders. It should have High pressure tubing for medical gases with pressure gauges. Gas flow management system should be precisely calibrated with cascaded tube flow meters with mechanical guard and emergency oxygen flush. There should be close circuit breathing system with carbon Dioxide absorbent. Vaporizer must be isolated from the gas flow in off position and should prevent simultaneous activation of more than one vaporizer. The system should be FDA approved and should have local distributor for servicing and installation. All components of the anaesthetic system should from the same manufacturer.</p>	
<p>F) 3 T MR compatible music system</p>	
<p>G) Central <u>Medical Gas Pipeline</u> as per requirement</p>	
<p>H) <b>Printer: (1) Dry Chemistry Direct Digital Camera:</b> capable of printing all films sizes online with resolution of 500 DPI or more. All film sizes should be freely configurable at user level (Qty-1) ; <b>(2)Colour Laser Network Printer:</b> for printing of \ Colour CSH PERfusion/BOLD maps and images and film</p>	

Technical Specification	We Comply
documentation on paper (minimum 24 ppm)	
<b>I) Data Archival for long time Storage:</b> For archival & Storage of images and spectroscopy with Storage capacity of 10 TB. System should have database software for maintaining the demographic patient data and recalling the same. It should have DVD writer facility for copying specific patient data on DVD/CD	
<b>K) Full system UPS for entire MRI System with 30 minutes backup.</b>	
<b>J) Metal detection Device:</b> It should be light weight but robust design and built having to poles one each side of entrance of examination room. It should be able to detect all ferromagnetic materials, alloy and ferrite materials uniformly in all directions and orientations. It should be able to detect such objects in walking and in running with speed. The device should be passive and should have visual as well as audio alarm.	
<b>GUARANTEE</b>	
The vendor should guarantee the service and spare support for 10 years of the system including Helium and cold head and all accessories.	
<b>STANDARD AND CERTIFICATION :</b> Should be FDA and CE approved product.	
<b>INSTALLATION</b>	
A) A list of installations of the quoted model in Government/Private institutions in India to be provided.	
B) Satisfactory service back up facility should be available	
C) Please mention the service centre available nearest to the site of installation and total no. of MRI service engineers employed in India	
<b>Warranty:</b> Comprehensive Warranty for 5 Years from the date of satisfactory handing over the fully functional unit. The warranty will be on all the items, spare parts, Helium , Cold head, Coils, <u>Computer system Hardware and Software and including all accessories and local supply items (like UPS, AC, Generator all turnkey work if any) to the institute. The successful to provide 98% uptime during the warrantee period. In case downtime exceeds 2%, the warrantee will be extended double the excess downtime.</u>	
<b>CMC:</b> CMC should be quoted for per year basis for Five years including service tax at actual. The per year price for CMC should be fixed for next five years after completion of Warranty. The successful bidder to provide 98% uptime during the CMC period. In case downtime exceeds 2%, the CMC period will be extended double the excess downtime. CMC charges will be included for price comparison of bids.	
<b>Warranty and CMC services should be same and it should include at least 4 Nos. of PMS visits and Unlimited breakdown calls as and when ever required per year with all spare parts.</b>	
<b>Training:</b> Overseas On site Training should be given to Radiologist for minimum 3 Months at advanced research MR Centre. Technicians should be given on site training for one week. Biomedical Engineer should be given One Week or more training for Service. The cost of the training should be borne by the supplier.	
<b>Turn Key:</b> The bidder to inspect the site and collect the site plan along with tender document. Turn key work to be done as per site plan. Turnkey work done by the bidder to be maintained during the warranty and CMC period.	

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<b>Datasheets:</b> the bidder should provide original datasheet and brochure along with the bid, without which the bid will not be considered. The bidder to provide detailed compliance sheet ( containing deviation if any) and mark the serial number of items in product data sheet/brochures against each item.	
Onsite application support should be provided for one year whenever required	

**Note :- Please tick mark if you are complying our specification, if there is any deviation then Write in each row.**

Medical Director & Civil Surgeon,  
Shri Saibaba Sansthan Trust  
Hospital's, Shirdi