epublic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER
Bids and Awards Committee
Quezon Avenue, Quezon City 1100
website: www.pcmc.gov.ph email: bac@pcmc.gov.ph
Trunkline: 8588-9900 local 361/355 Telefax No.: 8924-0870

SECTION I

Invitation to Bid

Republic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER
Quezon Avenue, Quezon City 1100
website: www.pcmc.gov.ph email: officeofthedirector@pcmc.gov.ph
Trunk Line: 8588-9900 to 20 Direct Line: 8924-6601

INVITATION TO BID

1. The **Philippine Children's Medical Center (PCMC)** through **COB CY 2023** intends to apply the sum of **Four Hundred Twenty-Five Million Pesos (Php 425,000,000.00)** being the Approved Budget for the Contract (ABC) to payments under the following Invitation to Bid. Bids received in excess of the ABC shall be automatically rejected at bid opening.

IB No.	Qty	Unit	Item Description	ABC per Unit (Php)	Cost of Bidding Documents
IB-2023-091	1	lot	Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla	425,000,000.00	50,000.00

2. The **Philippine Children's Medical Center (PCMC)** now invites bids for the above-mentioned project. Delivery of the Goods is required **as stated in Section VI Schedule of Requirements**. Bidders should have completed, within the **past three (3) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using a nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184.

    a. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from PCMC and inspect the Bidding Documents at the address given below during office hours.

5. A complete set of Bidding Documents may be acquired by interested Bidders **starting July 13, 2023** upon payment of the applicable fee stated above. It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of PCMC, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Philippine Children's Medical Center will hold a Pre-Bid Conference on **July 21, 2023 at 1:30P.M.** through video conferencing via zoom *(Meeting ID: 965 6753 2827 Passcode: 476252)* which shall be open to prospective bidders.

7. Bids must be duly received through manual submission on or before **August 2, 2023, 2:00 P.M., Guard-on-Duty, 3rd Floor, Procurement Division Area, PCMC Main Building.** Late bids shall not be accepted.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.

9. Bid opening shall be on **August 2, 2023, 2:30P.M. 3rd Floor, Procurement Division Area, PCMC Main Building**. Bids will be opened in the presence of the Bidders' representatives who choose to attend at the afore-mentioned venue. In compliance to social distancing and to support the government's effort to mitigate, if not contain the transmission of COVID-19, we will **strictly allow only one authorized representative per bidder company** to enter the venue during opening of bids. Provided further, that said authorized representative shall follow PCMC's safety protocol by wearing face mask while inside PCMC premises.

10. The **Philippine Children's Medical Center (PCMC)** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

    Procurement Division
    3rd Floor, PCMC Main Building
    Quezon Avenue, cor. Agham Road Quezon City
    Trunkline : 8588-9900 local 361 / 355
    Fax Number: 8924-0870
    Email: pcmcbac@gmail.com

12. You may visit the following websites:

    For downloading of Bidding Document : www.pcmc.gov.ph
    www.philgeps.gov.ph

July 13, 2023

FRANCIS S. DELA CUESTA, RN, MAN
Chairman, Bids & Awards Committee

Republic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER
Bids and Awards Committee
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Trunkline: 8588-9900 local 361/355 Telefax No.: 8924-0870

SECTION II

Instructions to Bidders

1. Scope of Bid

The **Philippine Children's Medical Center (PCMC)** wishes to receive Bids for the Project/s per Section I. Invitation to Bid

The above Procurement Projects, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated per Section I. Invitation to Bid in the amount of **Four Hundred Twenty-Five Million Pesos (Php 425,000,000.00).**

2.2. The source of funding is:
b. GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2.

a. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
   i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
   ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
   iii. When the Goods sought to be procured are not available from local suppliers; or
   iv. When there is a need to prevent situations that defeat competition or restrain trade.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.

c. For procurement where the Procuring Entity has determined, after the conduct of market research, that imposition of either (a) or (b) will likely result to failure of bidding or monopoly that will defeat the purpose of public bidding: the Bidder should comply with

the following requirements: [*Select either failure or monopoly of bidding based on market research conducted*]

i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%) in the case of non-expendable supplies and services or twenty-five percent (25%) in the case of expendable supplies*] of the ABC for this Project; and

ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

b. Subcontracting is not allowed.

8. Pre-Bid Conference

The Philippine Children's Medical Center will hold a Pre-Bid Conference on **July 21, 2023 at 1:30P.M. through video conferencing via zoom (Meeting ID: 965 6753 2827 Passcode: 476252)** which shall be open to prospective bidders, as indicated in paragraph 6 of the **IB.**

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **the past three (3) years** prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

a. For Goods offered from within the Procuring Entity's country:

i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
ii. The cost of all customs duties and sales and other taxes already paid or payable;
iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
iv. The price of other (incidental) services, if any, listed in e.

b. For Goods offered from abroad:

i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications).**

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in:
a. Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration[1] or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until ***120 calendar days***. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Use of indelible ink <u>color blue</u> shall be used by the authorized signatory in signing the required forms. ***Strictly NO using of staple wire and thick materials for tab***

The **First (1st) Envelope**, shall contain the following **<u>Technical Component</u>** accomplished in three (3) sets, **each set filed in a folder**

The **Second (2nd) Envelope** shall contain the **<u>Financial Component</u>** accomplished in three (3) sets, **each set filed in a folder,** including the **<u>USB Flash Drive</u>**

All copies should be certified as true copy

COLOR CODING OF FOLDERS/ENVELOPES	**BLUE**

LABEL ON THE ENVELOPE/S:
Name of PROCURING ENTITY
Name of CONTRACT TO BE BID
IB Number
DATE of Bid Opening
Name of the Bidder Company
Address of the Bidder Company

IDENTIFY THE ENVELOPES:
as: > Technical Component Requirements
(original copy, copy 1 and copy 2)
> Financial Component Requirement
(original, copy 1 and copy 2)

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB.**

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184.

The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

19.4. The Project shall be awarded as follows:

Option 3 - One Project having several items, which shall be awarded as separate contracts per item.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

20.2. Within a **non-extendible period of five (5) calendar days** from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

CONFORME:

_____	_____
Authorized Signatory Signature over printed name	Contact No:

_____	_____	_____
Name of Company/Firm	Company's Official Email Address (where notices will be sent)	Company's Official Contact No.

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SECTION III

Bid Data Sheet

Bid Data Sheet

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.3</td><td>For this purpose, contracts similar to the Project shall be:

a. Supply, Delivery, Installation, Testing and Commissioning of MEDICAL IMAGING EQUIPMENT

b. completed within the last three (3) years prior to the deadline for the submission and receipt of bids.</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed.</td></tr>
<tr><td>12</td><td>The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos.</td></tr>
<tr><td>14.1</td><td>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:
<table>
<tr><th>IB No.</th><th>Qty</th><th>Unit</th><th>Item Description</th><th>Total ABC</th><th>Bid Security Amount in cash, cashier's/ manager's check, bank draft/ guarantee or irrevocable letter of credit (2% of ABC)</th><th>Bid Security Amount in Surety Bond (5% of ABC)</th></tr>
<tr><td>IB-2023-091</td><td>1</td><td>lot</td><td>Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla</td><td>425,000,000.00</td><td>8,500,000.00</td><td>21,250,000.00</td></tr>
</table></td></tr>
<tr><td>19.3</td><td>Supply, Delivery, Installation, Testing and Commissioning of the Project/s per Section I. Invitation to Bid</td></tr>
<tr><td>20.2</td><td>The Lowest Calculated Bidder shall submit the following documentary requirements within a non-extendible period of five (5) calendar days from receipt of the notification that contain the following:

1. Registration Certificate from the Department of Trade and Industry (DTI)

<u>OR</u>

Security and Exchange Commission (SEC), whichever may be appropriate under existing laws of the Philippines

2. Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located or the equivalent document for Exclusive Economic Zones or Areas

3. CY 2022 Audited Financial Statements and Income Tax Returns filed and taxes paid through the BIR Electronic Filing and Payment System (EFPS)

4. Latest Income and Business Tax Returns filed and paid through the BIR Electronic Filing (EFPS) within the last three (3) months

5. Certificate of Performance in letterhead of their clients indicating the contact numbers and email addresses signed by the authorized head of the Department from three (3) clients of the bidder issued within the last six (6) months prior to bid opening.

Note: Certification issued by PCMC – Materials Management Division must</td></tr>
</table>

be included if bidder had done business with us. Certification of which should be of same category (e.g. equipment/supplies) of project being bided.

6. Valid and current License to Operate (LTO) issued by Food and Drug Administration (FDA). Provided that in case of expired LTO, the application for renewal was made timely as per FDA Circular No. 2011-004.

   In case of expired LTO, the following copies may be submitted:
   a. expired LTO;
   b. application for renewal; and
   c. Official Receipt as proof of payment of renewal of LTO

7. Exclusive Distributor/Authorized Dealer (as first Tier Distributor – to sell/distribute) from the Principal Manufacturer of the equipment duly authenticated by the Philippine Consulate in the country of origin

8. Valid and current Certificate of Compliance, issued by an independent certifying body, with ISO 13485: Quality Management System for medical device manufacturing-Requirements for regulatory purposes in the names of the equipment

9. Valid Marketing Authorization, Registration Approval or Free Sale Certificate for the equipment issued by the Health Authority in the country of origin

10. List and address of the equipment Manufacturer's branch office, sales office and /or distributor's office in Western Europe, USA or Canada and Japan

11. Address, contact numbers, e-mail address of the Authorized Service Engineer(s) of the supplier in Metro Manila

12. Certificate from the Principal Manufacturer duly notarized from country of origin:

    a. All the terms and conditions stated in the bidding documents per IRR of RA 9184 and corresponding contract for the project shall be honored by the Principal Manufacturer, including in the event that a change of dealership will occur during the duration of the contract up to the warranty and preventive maintenance period;
    b. That the offered equipment is brand new, unused and not a discontinued model or was not subjected to product recall;
    c. The principal must have an existing office in the Philippines for at least ten (10) years (attach proof);
    d. That the manufacturer and the bidder have an ongoing business relationship of a minimum of five (5) years (attach proof)
    e. The expected useful life of the equipment under normal use (indicate normal capacity, i.e. number of patients, operating hours, other considerations);
    f. Guarantee on availability of all spare parts, accessories and consumables at least for the next ten (10) years from testing, commissioning, acceptance and delivery;
    g. That it has the competence in handling and providing technical support as well as capability for corrective and preventive maintenance of the unit;
    h. That it has engineers trained to conduct preventive and corrective maintenance for the offered model;
    i. That it has a minimum of five (5) factory-trained engineers currently employed;

j. That it has employed local application specialist to provide support onsite;

k. That it has local application specialist(s) who are factory trained

l. Consumer guidelines regarding disposal of the equipment (Information about how and where the used and decommissioned products/ parts can be returned for recycling and/ or disposal (e.g. buy-back program of the product after end of useful life).

13. Duly notarized Certificate from Bidder:

a. That the system is US approved and with Certification from FDA - Philippines that the product is currently not required to be registered;

b. That the brand has been sold in the Philippines within the past ten (10) years (attach list of at least fifteen (15) installations of the same brand that has been installed, commissioned and accepted by Public/Government Hospitals);

c. That parts, accessories and consumables are readily available at the authorized Philippine service center/s for a period of ten (10) years after the warranty period;

d. That it has available competent in-house technical specialists in handling and providing technical support as well as maintenance of the equipment being offered;

e. Has the ability to do remote pro-active or predictive monitoring including critical equipment parameters, remote diagnosis and repair and remote updates and upgrades including computer hardware replacement;

f. Is able to do remote assistance to help improve staff productivity and run their daily operations effectively;

g. Has a team who is always available to provide quick application guidance or advice on troubleshooting remotely;

h. Allow customers 24/7 access using any device for high-level equipment transparency, enabling our customers to monitor efficiently via a comprehensive dashboard on equipment status and activities in real-time

i. Ninety-Five percent (95%) guaranteed uptime for the equipment offered during the warranty period.

j. The principal and the supplier should not have any history of unsatisfactory ratings and contracts and unresolved projects within the institution notably at the PCMC - Radiology Division

k. That all related expenses (such as transportation, installation, requirements for testing and others) at the bidder's expense prior to the acceptance.

l. That it will conduct applications training on site for proper operation and maintenance of the equipment to users and maintenance personnel upon delivery;

m. That it will provide replacement/back-up unit while the delivered unit is being repaired.

n. Will provide comprehensive preventive maintenance (PM) which will automatically bind the said supplier to a PM contract for five (5) years after the warranty period

14. Certificate of Undertaking that during the warranty period the manufacturer can provide corrective maintenance immediately or can provide off-site support upon notification of equipment breakdown from the end user

	15. The Recurring and Maintenance Costs (use of Form DOBA – PCMC – RMF8 is required) 16. List of Consumables (PARTS/ACCESSORIES/SUPPLIES) [use of Form DOBA – PCMC – LCF9 is required] 17. Submit a comprehensive preventive maintenance costing which includes a list of prices of major spare parts and consumables for the next five (5) years **after the warranty period**. 18. Section II. Instructions to Bidders with signature (conforme) on all pages 19. Section III. Bid Data Sheet with signature (conforme) on all pages 20. Section IV. General Conditions of the Contract with signature (conforme) on all pages 21. Section V. Special Conditions of the Contract with signature (conforme) on all pages Failure of the Bidder declared as LCB to duly submit the requirements stated above or a finding against the veracity of such shall be ground for forfeiture of the bid security and disqualify the Bidder for award.
21.2	*No additional contract documents relevant to the Project*

CONFORME:

_____ _____

Authorized Signatory
Signature over printed name

Contact No:

_____ _____ _____

Name of Company/Firm

Company's Official Email Address (where notices will be sent)

Company's Official Contact No.

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SECTION IV

General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract** (**SCC).**

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

[Include the following clauses if Framework Agreement will be used:]

2.3. For a single-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier in its bid.

2.4. For multi-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier during conduct of Mini-Competition.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184. *{[Include if Framework Agreement will be used:] In the case of Framework Agreement, the Bidder may opt to furnish the performance security or a Performance Securing Declaration as defined under the Guidelines on the Use of Framework Agreement.}*

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project *{[Include if Framework Agreement will be used:] or Framework Agreement}* specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

5.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 Revised IRR of RA No. 9184.

5.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

CONFORME:

_____	_____
Authorized Signatory Signature over printed name	Contact No:

_____	_____	_____
Name of Company/Firm	Company's Official Email Address (where notices will be sent)	Company's Official Contact No.

Republic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER
Bids and Awards Committee
Quezon Avenue, Quezon City 1100
website: www.pcmc.gov.ph email: pcmcbac@gmail.com
Trunkline: 8588-9900 local 361/355 Telefax No.: 8924-0870

SECTION V

Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	**Delivery and Documents –** For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: *For Goods Supplied from Abroad "*The delivery terms applicable to the Contract are DDP delivered to PCMC. In accordance with INCOTERMS." *For Goods Supplied from Within the Philippines, "*The delivery terms applicable to this Contract are delivered to PCMC. Risk and title will pass from the Supplier to PCMC upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements). The details of shipping and/or other documents to be furnished by the Supplier are as follows: *For Goods supplied from within the Philippines:* Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity: (i) Original copy of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) Original copy of the Manufacturer's and/or Supplier's warranty certificate on parts and services, including accessories starting from final acceptance; (iii) Original copy of Certification of Availability of Replacement/ Back-up unit while the provided unit/s is/are being repaired. (iv) Original copy of Certificate of Calibration, Testing and Adjustment (v) Original copy of certificate of preventive maintenance during the warranty period. (vi) Original copy of certificate of attendance on conducted training to end-users and Engineering Personnel for proper operation and maintenance of the equipment. (vii) Original and two (2) copies in English Language: a. Operation and Instruction Manual b. Service and Instruction Manual c. Wiring and Schematic Diagrams d. Parts Listing (viii) Original Copy of Certification as locally manufactured *For Goods supplied from abroad:* Upon shipment, the Supplier shall notify the Procuring Entity and the insurance company by cable the full details of the shipment, including Contract Number, description of the Goods, quantity, vessel, bill of lading number and date, port of loading, date of shipment, port of discharge etc. Upon delivery to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents as applicable with the documentary requirements of any letter of credit issued taking precedence:

(i) Original copy of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

(ii) Original copy of the Manufacturer's and/or Supplier's warranty certificate on parts and services, including accessories starting from final acceptance

(iv) Original copy of Certification of Availability of Replacement/ Back-up unit while the provided unit/s is/are being repaired.

(v) Original copy of Certificate of Calibration, Testing and Adjustment

(vi) Original copy of certificate of preventive maintenance during the warranty period.

(vii) Original copy of certificate of attendance on conducted training to end-users and Engineering Personnel for proper operation and maintenance of the equipment.

(viii) Original and two (2) copies of:

a. Operation and Instruction Manual

b. Service and Instruction Manual

c. Wiring and Schematic Diagrams

d. Parts Listing

(ix) Copy of Proof of Payment of Import Duties from Bureau of Customs / Bill of Lading.

For purposes of this Clause the Procuring Entity's Representative at the Project Site is the Property and Supply Section / Procurement Section.

Incidental Services –

The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:

Select appropriate requirements and delete the rest.

a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;
b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;
c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
f. Close coordination with PCMC Engineering Section and Winning Contractor to ensure compliance to DOH and FDA guidelines and provide as built plan for the equipment package to be delivered
g. Winning bidder must provide all the necessary works/support/systems/documentations and others including the needed requirements in obtaining permits and licenses for the normal/standard operation of these equipment.
h. Secure License to Operate from DOH-FDA

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts –

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

Select appropriate requirements and delete the rest.

a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
b. in the event of termination of production of the spare parts:

    i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and

    ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the cost thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for at least for the next five (5) years from testing, commissioning, acceptance and delivery;

Spare parts or components shall be supplied as promptly as possible, but in any case for a period of five (5) years after the warranty period;

Packaging –

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity
Name of the Supplier
Contract Description
Final Destination
Gross weight
Any special lifting instructions
Any special handling instructions
Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

Transportation –

Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged

	by the Supplier, and related costs shall be included in the contract price. Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination. **Intellectual Property Rights –** The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
2.2	The terms of payment shall be as follows : Thirty to Forty-Five (30 – 45) calendar days from submission of documentary requirements
3	Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security.
4	The inspections and tests that will be conducted are: 1) Upon delivery, the Goods shall undergo preliminary physical inspection by the Inspection Team of the PROCURING ENTITY to ascertain the physical condition and acceptability of the Goods. 2) The supplier shall promptly replace the equivalent quantity of Goods taken as samples without cost to the PROCURING ENTITY.
5	Three (3) months after acceptance by the Procuring Entity of the delivered Goods or after the Goods are consumed, whichever is earlier. The obligation of the winning bidder for the warranty shall be covered by retention money required of under RA 9184 Sec. 62.1. The said amount shall only be released after the lapse of the warranty period specified in Section VII Technical Specification; provided, however, that the Supplies delivered are free from patent and latent defects and all the conditions imposed under this Contract have been fully met.

CONFORME:

_____ _____

Authorized Signatory
Signature over printed name

Contact No:

_____ _____ _____

Name of Company/Firm

Company's Official Email Address (where notices will be sent)

Company's Official Contact No.

Republic of the Philippines
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SECTION VI

Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

IB No.	Qty	Unit	Item Description	ABC per Unit (Php)
IB-2023-091	1	lot	Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla	425,000,000.00

Delivery Site	**PCMC Requirement DELIVERY PERIOD**	**Bidder's Offer *(within the acceptable period)***
Materials and Management Division G/F PCMC, Quezon Avenue, cor. Agham Road Quezon City	**One Hundred (100) calendar days** upon receipt of Purchase Order/Notice to Proceed	

DELIVERY AND ACCEPTANCE

- The supplier should deliver the goods called for in the Purchase Order (PO) within the Delivery Period, as offered, upon receipt of approved upon receipt of approved Purchase Order (PO) through faxed or personally received during office hours at the Procurement Section.

- All goods delivered pursuant to the Purchase Order (PO) shall be subject to acceptance and inspection by the end-user as well as by the House Inspector and of the Resident Auditor or their representatives. Goods delivered not in conformity with specifications shall be rejected and the contractor held in default.

_____ _____

NAME OF COMPANY ADDRESS

_____ _____

SIGNATURE OVER PRINTED NAME OF AUTHORIZED REPRESENTATIVE TELEPHONE / FAX

Republic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER
Bids and Awards Committee
Quezon Avenue, Quezon City 1100
website: www.pcmc.gov.ph email: pcmcbac@gmail.com
Trunkline: 8588-9900 local 361/355 Telefax No.: 8924-0870

SECTION VIII

Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

The Bidder shall submit the following **TECHNICAL COMPONENT ENVELOPE (ARRANGED, NUMBERED AND TABBED)** ***[Strictly NO using of staple wire and thick materials for tabs]*** as enumerated below:

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR

   Note: For the purpose of updating the Certificate of Registration and Membership, all Class "A" eligibility documents mentioned in this section supporting the veracity, authenticity and validity of the Certificate shall remain current and updated. The failure by the prospective bidder to update its Certificate with the current and updated Class "A" eligibility documents shall result in the automatic suspension of the validity of its Certificate until such time that all of the expired Class "A" eligibility documents has been updated (per GPPB Resolution No. 15-2021).

Technical Documents

2. Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid. *(Use of Form No. DOBA-PCMC-SCF3b is required)*

3. Single Largest Completed Contract (SLCC) similar to the contract to be bid *(Refer to BDS ITB Clause 5.3)*, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 Revised IRR of RA No. 9184, within three (3) years prior to bid opening *(use of Form No. DOBA-PCMC-SCF3a is required)*

4. Original copy of Bid Security **(Refer to BDS Clause 14.1)**. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of the Notarized Bid Securing Declaration

5. Duly accomplished and signed Production/ Delivery Schedule using the form as provided for in Section VI

6. Duly accomplished and signed Technical Specification using the form as provided for in Section VII

   i. Certification of Availability of demo unit *(use of Form No. DOBA-PCMC-DUF11 is required)*

   ii. Signed conforme on the attached Engineering Clearance

iii. Brochures/sales literature/s or technical datasheet/s reflecting the specifications:

- MRI scanner and main components
- Power transfomer(s) for the MRI scanner
- Modular type UPS for the MRI scanner and chiller
- TVSS for the MRI scanner
- Transformer(s) for the Chiller and compressor
- MRI compatible wheelchair
- MRI compatible stretcher/gurney
- MRI Compatible Dual-Barrel Injector
- Body scanner (metal detector) able to pass thru stretcher
- MRI Compatible fire extinguisher
- Disc Publisher

7. Original duly signed Omnibus Sworn Statement (OSS); and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. *(Use of the Form provided is required)*

Financial Documents

8. The prospective bidder's computation of the Net Financial Contracting Capacity (NFCC) must be at least equal to the ABC to be bid (*Use of Form No. DOBA–PCMC–NFF4 is required)*

OR

a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, it must be at least equal to 10% of the ABC

Class "B" Documents

9. If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence (*Use of Form No. DOBA-PCMC-JVF6 is required).*

OR

Duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful

Other documentary requirements under RA NO. 9184 (as applicable):

i. [For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product

ii. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity

The Bidder shall submit the following **FINANCIAL COMPONENT ENVELOPE (ARRANGED, NUMBERED AND TABBED)** ***[Strictly NO using of staple wire and thick materials for tabs]*** as enumerated below:

II. FINANCIAL COMPONENT ENVELOPE

1. Duly accomplished and signed Financial Bid Form
2. Duly accomplished and signed Price schedule (use applicable forms)
    i. Use the form "*For Goods offered from within the Philippines*" if bidder is offering goods from within the Philippines.
    ii. Use the form "*For Goods offered from abroad"* if bidder is offering goods from Abroad.

Note: Bidder shall include the PCMC issued **USB Flash Drive** in the **Financial Component Envelope (Original Folder)** containing the **FOLLOWING**:

a. soft copy of their accomplished **Technical Specifications** (in **EXCEL format**)

b. **SCANNED copy** (in **PDF Format**) **of ALL** the required documents under Section VIII. Checklist of Technical and Financial Documents

CONFORME:

_____ _____
Authorized Signatory Signature over printed name — Contact No:

_____ _____ _____
Name of Company/Firm — Company's Official Email Address (where notices will be sent) — Company's Official Contact No.

PRICE SCHEDULE

PROCURING ENTITY : **PHILIPPINE CHILDREN'S MEDICAL CENTER**	NAME OF BIDDER :
INVITATION TO BID NO. : **IB-2023-091**	

1	2	3	4	5	6	7	8	9	10
Qty	**Item**	**Description (Brand / Make / Model)**	**Country of Origin**	**Manufacturer**	**Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)**	**Total CIF or CIP price per item (col. 1 x 6)**	**Unit Price Delivered Duty Unpaid (DDU)**	**Unit price Delivered Duty Paid (DDP)**	**Total Price delivered DDP (col 1 x 9)**
One (1) Lot Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla **ABC = Php 425,000,000.00**									
1 unit	**Computed Tomograph Scanner 128 slices**								
1 unit	**Magnetic Resonance Imaging Scanner 3-Tesla**								

• Bids will be valid for one hundred twenty (120) days and it shall remain binding upon us and may be accepted at any time before the expiration of that period;	**TERMS OF PAYMENT** **(For discounts being offered, if there's any. Otherwise, state "NONE"):**
• PCMC has the right to reject any or all bids without offering any reason, waive any required formality and award the contract to any bidder whose proposals as evaluated by PCMC is the most advantageous to the government.	***NAME AND SIGNATURE OF AUTHORIZED REPRESENTATIVE***

NOTE:
BID SHOULD BE PRICE PER LOT. However, we will appreciate if you could also include the costs per unit for our future reference.

PRICE SCHEDULE

PROCURING ENTITY : **PHILIPPINE CHILDREN'S MEDICAL CENTER**	NAME OF BIDDER :
INVITATION TO BID NO. : **IB-2023-091**	

1	2	3	4	5	6	7	8	9	10	11
Qty	**Item**	**Description (Brand / Make / Model)**	**Country of Origin**	**Manufacturer**	**Unit Price EXW per item**	**Transportation and all other costs incidental to delivery, per item**	**Sales and other taxes payable if Contract is awarded, per item**	**Cost of Incidental Services, if applicable, per item**	**Price, per unit (col 6+7+8+ 9)**	**Total Price delivered Final Destination (col 10) x (col 1)**
One (1) Lot Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla **ABC = Php 425,000,000.00**										
1 unit	**Computed Tomograph Scanner 128 slices**									
1 unit	**Magnetic Resonance Imaging Scanner 3-Tesla**									

• Bids will be valid for one hundred twenty (120) days and it shall remain binding upon us and may be accepted at any time before the expiration of that period;	**TERMS OF PAYMENT** **(For discounts being offered, if there's any. Otherwise, state "NONE"):**
• PCMC has the right to reject any or all bids without offering any reason, waive any required formality and award the contract to any bidder whose proposals as evaluated by PCMC is the most advantageous to the government.	***NAME AND SIGNATURE OF AUTHORIZED REPRESENTATIVE***

NOTE:
BID SHOULD BE PRICE PER LOT. However, we will appreciate if you could also include the costs per unit for our future reference.

PHILIPPINE CHILDREN'S MEDICAL CENTER

Quezon Avenue, Quezon City

SECTION VII: TECHNICAL SPECIFICATIONS

Instruction:

1. **FILL-OUT** this form by including a **CONCISE DESCRIPTION** of your offer. Please write the SPECIFIC, PRECISE and COMPLETE statement which conforms with the required specifications.

2. **DO NOT** write **"COMPLY"** **OR** **DO NOT** write **page numbers** of the brochure/data sheet, etc.

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
One (1) Lot Supply, Delivery, Installation, Testing and Commissioning of one (1) unit Computed Tomograph Scanner 128 slices and one (1) unit Magnetic Resonance Imaging Scanner 3-Tesla				
1	**unit**	**Computed Tomography Scanner (CT Scan) Machine 128 Slices**		
		A. Gantry		
		1	Aperture must be at least 82 cm	
		2	Tilt must be at least +/- 25 degrees	
		3	Position lights - laser light markers with transaxial, sagittal and coronal planes	
		4	Controls can be done remotely within the examination room	
		5	Camera integrated in the gantry for the monitoring of the patient	
		6	Rotation time must be at least 0.25 seconds	
		7	Scan field must be at least 50 cm	
		8	Focal spot to isocenter distance must be at least 60 cm	
			8.1 Focal spot to detector distance must be at least 110 cm	
			8.2 Native physical temporal resolution must be at least 125ms	
			8.3 Physical temporal resolution (bi-segmental spiral acquisition) must be at least 62.5ms	
		9	Maximum scan time must be 200 seconds	
		10	Visual graphical patient instruction for breathing that serves as visual guidance especially for hearing-impared patients.	
		11	Weight of the gantry must be not higher than 2,180kg	
		B. X-ray Tube Assembly and Generator		
		1	Generator Power : must be at least 120kW	
		2	Tube voltage: must be minimum of 70kV, maximum of 150kV	
		3	System cooling: Air or Water	
		4	Tube current range must be 10-1300 mA	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		5	Tube cooling rate must be at least 2.7 MHU/min	
		6	Anode heat storage capacity without iterative reconstruction must be at least 30 MHU	
		7	Must be triple focal spot with the sizes of	
			7.1 Large focal spot must be 0.8 x 1.1 mm	
			7.2 Small focal spot must be 0.6 x 0.7 mm	
			7.3 Micro focal spot must be 0.4 x 0.5 mm	
		8	Allows kV adjustments in increments of 10	
		9	Has spectral imaging capabilities with simultaneous low and high kV exposure	
		10	Able to scan using the minimum tube voltage at the maximum tube current for better image contrast and dose reduction of radiation and contrast media especially for pediatric patients.	
		C. Patient Couch		
		1	Vertical travel must be at the range of at least 53 cm - 96 cm	
		2	Vertical travel speed must be at least 35 mm/s	
		3	Table load to support patient weight must be 225kg - 227 kg	
		4	Scanning range must be at least 160 cm	
		D. Detector System		
		1	Technology: Photodiode and electronics integrated in one single integrated circuit	
		2	Number of detector channels per row must be at least 1,800	
		3	Number of detector elements must be at least 58,880	
		4	Pitch factor should be 0.15 to 1.7	
		5	Minimum number of acquired slices per rotation: at least 128 slices Maximum reconstructed slices per rotation: at least 384-maximum slices	
		6	Reconstruction increments should be 0.1mm thin	
		7	Sequence and spiral acquisition mode must be 128 mm x 0.6 mm	
		8	Must be capable of reconstructing smallest slice thickness as thin as 0.6 mm	
		9	Reconstruction matrix must be at least 512 x 512	
		10	Number of projections 1 s / 360 at least 8000	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		11	High contrast resolution at least 2% MTF (+/- 10%) is 16 lp/cm	
		E. Console (Acquisition Computer)		
		1	Monitor resolution must be at least 1920 x 1080 PPI	
		2	Monitor must be at least 24" flat screen	
		3	Must have a high performance computer CPU	
			3.1 CPU: atleast 6 cores, 1.9 GHz	
			3.2 External Video Card: At least 8GB	
		4	Must have a hard disk of at least 900 GB	
		5	Image storage should have at least 800,000 images for immediate access	
		6	Reconstruction field of view should be at least 5 - 50 cm	
		7	Computer hardware must be integrated into the gantry for complete flexibility	
		8	Operating panel/ Control desk should display all scanning parameters	
		9	Keyboard with integrated functions keys and mouse control and control box	
		10	Wireless transfer of images for preview and transfer starts immediately after the end of scanning.	
		F. Application and scanning optimization features must be included		
		1	Region of Interest hounsfield unit threshold setting	
		2	Bolus Tracking	
		3	Iterative reconstruction	
		4	Automatic selection of scan speed based on coverage and scan time	
		5	Automatic organ-based scan range definition	
		6	Automated algorithms for the detection of the correct anatomical coverage and the uniform contrast media distribution on the topogram	
		7	Automatically detects and corrects inadequate coverage during scanning for multi-phase scans	
		8	Automatic bone removal	
		9	Automatic table removal	
		10	CT Angiography and General Vascular evaluation	
		11	Neuro Digital Subtraction Angiography	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		12	Neuro perfusion	
		13	Volume Calculation and measurements	
		14	With iterative beam hardening correction for reduction of beam-hardening artifacts	
		15	Large selection of reconstruction kernels to adapt to specific clinical need	
		16	Iterative metal artifact reduction algorithm based on the type of implants (ex. Algorithm specific for dental fillings as against spine implants etc.)	
		17	Automatic spine reconstruction with automatic vertebrae labeling.	
		18	Automatic rib reconstruction displayed in one plane with automatic labeling.	
		19	Comprehensive length and diameter measurements for vessels.	
		20	Endoscopic view of tubular structures with automatic forward and backward direction and adjustable speed.	
		21	Physiological measurement module including at least 2 channel ECG cable	
		22	Supports adaptive prospective and retrospective ECG- triggered scanning to obtain CT images of the heart	
		23	Automatically detects optimal phase for motionless coronary visualization	
		24	Calcium scoring that supports all the following quantification algorithms: agatston scoring, volumetric scoring and calcium mass quantification	
		25	Any kV Ca Scoring to perform Agatston equivalent scores at lower kV settings to significantly save dose.	
		26	Advanced 3D application for optimal display and differentiation of different organs.	
		27	Capable to do real time CT Fluoroscopy for Interventional procedures	
		28	Enabling real-time dose modulation to avoid direct X-ray exposure to the physician’s hands.	
		29	Lasers embedded in the CT gantry for optimal biopsy procedures. Lasers project the needle entry point and insertion angle on to the patient with a maximum deviation of 5 mm	
		G. Dose Management		

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		1	Filters must be installed at the tube and collimator	
		2	Contrast bolus triggered data acquisition	
		3	Real-time topogram	
		4	Automated tube voltage and tube current matching base on patient and clinical indication	
		5	Automated real-time tube current adjustment depending on the anatomy	
		6	Pediatric protocol	
		7	Reduce dose for dose sensitive body parts without compromising image quality	
		8	Allows extraction of dose values	
		9	Generates a report for scans that exceeded reference dose level values	
		10	Allows setting of alerts to avoid over-radiation	
		H. Primary Workstation (Advanced Visualization Software)		
		1	Volumetric Navigation Package	
			1.1 2D, 3D and 4D viewing	
			1.2 Multimask editing	
			1.3 Configurable workflow creation	
			1.4 Measurement toolsets	
			1.5 Labeling	
			1.6 Report generation	
			1.7 Orientation Tool	
			1.8 The CPR (Curved Planar Reconstruction) Tool	
			1.9 FreeROI (Reconstruction of Image)	
			1.10 Dynamic Region Growing	
			1.11 Automatic Bone Removal	
			1.12 Head/Neck Bone Removal	
			1.13 Batch Tool	
			1.14 Batch3D	
			1.15 Common Mask Controls	
			1.16 Window Level Tool	
			1.17 Anatomy Label	
			1.18 Mask Threshold	
			1.19 Angio View	
			1.20 Volume Operation Tool	
			1.21 SAT (Segmentation, Analysis & Tracking)	
			1.22 Area Analysis	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			1.23 Customize the Tool Panel	
			1.24 Cine Tools	
			Supported Modality: CT, MR, PET, SPECT	
			Includes Automated Processing Server Software	
		2	CT Cardiac Package delivers an extensive range of patented clinical and workflow tools to achieve a comprehensive and streamlined patient analysis experience	
			2.1 Time-Volume Analysis of the left ventricle (LV)/LV EF Workflow	
			2.1.1 Chamber Segmentation	
			2.1.2 Wall Correction	
			2.1.3 Calculation and Result	
			2.2 Volume Index	
			2.3 Polar Maps	
			2.4 Wall Thickness and Wall Thickening	
			2.5 Segmental Ejection Fraction and Wall Intensity	
			2.6 3D Polar Maps	
			2.7 Text and Graphs Results	
			2.8 Time-Volume Analysis of the Right Ventricle (RV)	
			2.9 Report Generation	
			2.10 Lesion-Specific Analysis (LSA)	
			2.10.1 Wall Fusion	
			2.10.2 Multi-style Layout	
			2.10.3 Switching Polar Maps	
			2.11 Automated Centerline creation	
			2.12 Calcium Score of Agatson score	
			2.13 Measurement of the area and volume of plaque is supported with a percentile database	
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		3	CT Chest Package provides pre-generated	
			3.1 Automated Lung Segmentation	
			3.1.1 Volume Operation Tool	
			3.1.2 Subtraction	
			3.1.3 Merge	
			3.2 Volume measurements	
			3.3 Volume histogram output	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			3.4 Dynamic image filtering with configurable filtering strengths	
			3.5 Sphere-like Structure Identification (sphere finder)	
			3.6 Comparative Tracking Options (doubling time)	
			3.7 Measurement tracking	
			3.8 Virtual fly-through	
			3.9 Low Attenuation Analysis	
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		4	CT Body Package provides and extensive range of clinical tolls and workflow	
			4.1 Organ volume	
			4.2 Histogram output	
			4.3 Fat Analysis	
			4.4 Dynamic Data Support	
			4.5 Sphere-like Structure Identification	
			4.6 Dynamic Image Filtering	
			4.7 Dual Source Data Support	
			4.7.1 Improves signal-to-noise ratios	
			4.7.2 Subtracts high density structures	
			4.8 Colon Flythrough	
			4.8.1 Automatic multi-volume side-by-side loading	
			4.8.2 3D viewing	
			4.8.3 Fly-path creation and editing	
			4.9 Vertebra labeling	
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		5	MR Body Package provides an extensive range of clinical tools and workflow	
			5.1 2D, 3D and 4D MR image sequences	
			5.2 Centerline Analysis Tools	
			5.3 Analysis and Follow-tools	
			5.4 Dynamic Data Support	
			5.5 Time intensity ROI Analysis (tROI)	
			5.6 Analysis of Uptake Curves	
			5.7 Multi-phase Analysis	
			5.8 Graphical Mapping	
			5.9 Parametric Mapping	
			Supported Modality: MR	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			Includes Automated Processing Server Software	
		6	CT Head and Neck Package provides an extensive range of patented clinical and workflow tools	
			6.1 Curve Planar Reconstruction Tools	
			6.2 TDA (Time Dependent Analysis)	
			6.2.1 CBF, CBV, MTT, TTP, TOT, TR	
			6.2.2 Maps and Graphs	
			6.2.3 Classification Map Hemisphere Option	
			6.2.4 Display Range	
			6.3 Uptake Graph Map Types	
			6.4 Image Fusion	
			6.5 Dual Energy Support	
			6.6 Bone and Vessel Removal	
			6.7 Plaque Analysis	
			6.8 Histogram Output	
			6.9 Perimeter Cross section display	
			Supported Modality: CT	
		7	Interventional Radiology Package provides an extensive range of patented clinical and workflow tools	
			7.1 Centerline Analysis Tools	
			7.2 Vessel Stenosis Calculation	
			7.3 Aneurysm Evaluation	
			7.4 Stent Graft Planning	
			7.5 Curved Planar Reformation	
			7.5.1 Straight MPR views (sMPR)	
			7.5.2 Medial Axis Reformation (MAR)	
			7.6 Flythrough Endoluminal Evaluation	
			7.7 Analysis & Follow up Tools	
			Supported Modality: CT, MR	
		8	Endovascular Repair Planning (Vessel Analysis) Package provides an extensive range of patented clinical and workflow tools	
			8.1 Pre-generated Centerlines	
			8.2 User Defined Planning Template	
			8.2.1 Advanced Measurement Protocol	
			8.3 Diameter vs. Distance & Length Measurements	
			8.3.1 Cross-Sectional Views	
			8.4 Embedded Vendor Specific Report Templates	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			8.5 Exportation Tabulated Measurements	
			8.6 Stent Graft Planning	
			Supported Modality: CT, MR	
			Includes Automated Processing Server Software	
		9	Transcatheter Aortic Valve Replacement Planning (Vessel Analysis) Package provides an extensive range of patented clinical tools	
			9.1 TAVR Workflow	
			9.1.1 Aortic Root Segmentation & orientation	
			9.1.2 Short and view Axis views	
			9.1.3 Measurement Protocol	
			9.2 Multi-series loading	
			9.3 Centerline Pre-processing & Extractions	
			9.3.1. Straightened view	
			9.3.2 Diameter Curvature/ Tortuosity (Tortuosity Index)	
			9.3.3 User Definable Planning Template	
			9.3.4 Report Output	
			Supported Modality: CT, MR	
			Includes Automated Processing Server Software	
		10	Maxillo-Facial Package provides an extensive range of patented clinical and workflow tools	
			10.1 Curve Planar Reformation	
			10.2 Panoramic Projection	
			10.3 Cross Sectional Multi-Planar Reconstruction	
			10.3.1 Measurement Dental Implant	
			10.3.2 Surgical Planning	
			10.4 Definable Mandibular Groove Path	
			10.5 Analysis Maxillo-facial Region	
			Supported Modality: CT	
		11	Body Fusion Package	
			11.1. Registration Fusion	
			11.1.1 CT, MRI, PET or SPECT data	
			11.1.2 Anatomical references	
			11.2 Subtraction	
			11.3 Motion-Correction	
			11.4 Min, Max, Mean, Standard Deviation, Standard Uptake Values	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			11.5 Findings Viewer & Follow up	
			Supported Modality: CT, MR, PET, SPECT.	
		12	MRI Cardiac Package provides an extensive range of patented clinical and workflow tools to achieve a comprehensive and streamlined patient analysis experience	
			12.1 Volumetric Analysis of Ejection Fraction	
			12.2 AHA17-Segment-Model	
			12.3 Time Volume Analysis (TVA) (MR)	
			12.4 TVA of the Left Ventricle (LV)	
			12.5 TVA of the Right Ventricle (RV)	
			12.5.1 The Slice/Phase Table for RV TVA	
			12.6 Combined LV/RV Workflow	
			12.7 Wall Motion Polar Map	
			12.8 Wire Frame	
			12.9 Flow Dynamic - MR	
			12.10 Delayed Enhancement	
			12.11 MRI Cardiac Perfusion	
			12.12 Phase Sorting Data	
			12.13 ED/ES Table Layout	
			12.14 Color Codes in the Slice/Phase Table	
			12.15 Wall Editing	
			12.16 Delayed Enhancement Supported Modality: MR	
		13	Lung Segmentation Package provides an extensive range of clinical and workflow tools for Thoracic and Pulmonary specialists for quantification of lung volumes. This package includes:	
			13.1 Lobular segmentation with volume calculations	
			13.2 Automated Lung Segmentation	
			13.2.1 Volume Operation Tool	
			13.2.2 Subtraction	
			13.2.3 Merge	
			13.3 Automated Processing Server Software sphericity index to identify and manage sphere-like structures	
			13.4 Low attenuation segmentation with user-configurable range values.	
			13.5 Side-by-side comparison of multiple time points	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			13.6 Doubling time display with RECIST 1.0, RECIST 1.1, or Chesson measurement criteria	
			13.7 Dynamic image filtering with configurable filtering strengths	
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		14	Liver Segmentation Package provides an extensive range of patented clinical and workflow tools for specialists using CT scanning for organ analysis and quantification	
			14.1 Semi-automated liver segmentation, analysis and tracking	
			14.1.1. Segmenting Liver, PV, HV and HA (optional)	
			14.2 Lesion definition with volume measurement	
			14.3 Vascular centerline distance measurements	
			14.4 Display of lesion-to-vascular relationship	
			14.4.1 Distance Analysis and Margin	
			14.4.2 Distance Overlay Colors	
			14.4.3 Viewing of Margins	
			14.4.4 Simulation	
			14.5 Multi-cut option for pre-surgical planning	
			14.5.1 Transection Surface/Cut Line Manipulation	
			14.5.2 Merge Cuts	
			14.5.3 Vessel Territories	
			14.5.4 3D Distance Spheroid Measurement	
			14.6 Dynamic image filtering with configurable filtering strengths	
			Supported Modality: CT, MR	
			Includes Automated Processing Server Software	
		15	Image Filter Package provides advanced enhancement & noise reduction management with low dose CT exam images	
			15.1 Reduce the effects of image noise upon 3D rendering and manipulation	
			15.2 Improve contouring, segmentation features and centerline accuracy	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		16	Autobatch Package provides an advanced preprocessing engine designed to provide 2D batch output which enables reformation of image data into alternative planes or the creation of movies	
			16.1 Image Data Processing	
			16.2 2D Batch Output- Reformation of Image Data into Alternative planes	
			16.3 Create a Derived Series with any number of Images, FOV, Slab thickness, Slice spacing and rendering mode including MIP	
			Supported Modality: CT	
			Includes Automated Processing Server Software	
		I. Branded Workstation Hardware (Radiology Tech Control Console)		
		1	2Years Pro Support: Next Business Day Onsite Service for Hardware	
		2	CPU: atleast 6 cores, 1.9 GHz	
		3	External Video Card: At least 8GB	
		4	Memory: 32 GB Memory	
		5	Storage Capacity: at least 500GB SSD SATA for OS, 2TB 7.2K SATA for Data	
		6	Power Supply: at least 950W	
		7	Windows 10 Pro	
		8	Microsoft Office	
		9	at least one (1) unit 24" Medical Grade Monitor, 2.2 Megapixel or higher	
		J. Image Transfer/Networking (Full DICOM 3.0 Compatible)		
		1	DICOM Storage (send/receive)	
		2	DICOM Query/Retrieve	
		3	DICOM Basic print	
		4	DICOM Get Worklist (HIS/RIS)	
		5	DICOM SR Viewer	
		6	DICOM Storage Commitment	
		7	DICOM Viewer on CD/DVD	
		K. Requirements for the Main Unit per Engineering Clearance		
		1	The unit will be operated at 230 volts, 3-pin power plug/cable, 60 hertz	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			Note: *If 50/60Hz, provide ISO Certificate or equivalent stating that the product has passed the 50/60Hz testing*	
		2	Provide step-up transformer if equipment requires voltage other than 230VAC	
		3	Power consumption must be of maximum ≤ 160 kVA (Tapping of electrical main feeder line at powerhouse)	
		4	Power consumption standby must be ≤ 3 kVA	
		5	Mechanical parts should be of heavy-duty type	
		6	Equipment should be maintainable and serviceable	
		L. Accessories:		
		1	One (1) Modular type UPS for main equipment:	
			a. System Capacity: 160kVA	
			b. At least 10.4” Color, Touch Screen, Menu driven Graphic Display hot-swappable power modules	
			c. Battery voltage +/- 240Vdc	
			d. Dimension: 650mm x 960mm x 1600mm (WxDxH)	
			e. Capacity based on Manufacturer's recommended KVA	
			Brand:	
			Model:	
		2	One (1) unit UPS – can provide up to 10 mins of back-up for console computer and secondary workstation	
			Brand:	
			Model:	
		Note: Terms and conditions for the supply of the UPS		
		> UPS should be online and have the capacity to protect the equipment from all expected faults or emergencies during regular use and usual conditions during ordinary course of usage which includes but not limited to the following:		
			Under voltage and over voltage protection	
			Single phase	
			Neutral drift and neutral failure	
			Electromagnetic interference (EMI) & harmonics protection	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			High voltage transients and electrostatic discharge	
			Output short circuit with pulse by pulse current limit protection	
		> UPS shall be protected against the following:		
			Input supply to the UPS (TVSS)	
			Under voltage and over voltage protection	
			Rectifier over voltage protection	
			Over temperature protection	
			External magnetic field protection	
			High voltage transients and electrostatic discharge protection	
			Short circuit and overload protection	
		3	One (1) TVSS	
			Brand:	
			Model:	
		Note: **UPS capacity should be based on manufacturer's recommended KVA, safety electrical devices should be compatible to the equipment power requirement and proper grounding when needed**		
		4	QC Phantom set must be provided for calibration and for acceptance /conformance test and other quality control	
		5	Headrest support, headbands, body straps must be provided	
		6	One (1) unit Transformer for the CT unit	
		7	One (1) unit Transient Voltage Surge Suppressor “TVSS"	
		8	Two (2) sets personal radiation protection (thyroid shield, lead apron, gonadal shield and goggles), with heavy duty lead apron hanger and lead stand	
		9	Lead Glass – At least 120 x 100 cm, 2mm PB equivalent	
		10	One (1) unit Dual Head Contrast Injector	
			10.1 Dual-barrel contrast injector with a capacity of 100 - 200 ml each barrel	
			10.2 Injection mode must include the following parameters body weight input mode, flow rate mode	
			10.3 ICALC Features: automatic calculation of flow rate and volume by putting body weight, height, heart rate, contrast medium and needed volume	
			10.4 Protocol memory: 420 memories (5 user) (84 x 5 users)	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			10.5 Installation types: pedestal type / ceiling mount	
			10.6 Pressure limit: must be at least 10 - 200 psi (100 - 1373 kpa)	
			10.7 Must include an extravasation detector system	
		11	One (1) unit Anesthesia Machine	
			11.1 Main Gas Supply: Oxygen, Air, Nitrous	
			11.2 Pin Index Supply System: Oxygen, Air, Nitrous	
			11.3 Ventilator	
			11.3.1 Electronically driven ventilator	
			11.3.2 Up to 9 ventilation modes (Manual/Spontaneous, External fresh gas outlet, PC_SMV, PC_SIMV, VC_CMV, VC_SIMV, VC_CMV with CIP, VC_SIMV with CIP, PSV)	
			11.4 Fresh-gas delivery:	
			11.4.1 Mechanically controlled gas mixer with electronic flow measurement, numerical gas flow indicators and virtual meters	
			11.4.2 Fresh-gas flow 0 to 12L/min	
			11.5 Breathing System:	
			11.5.1 Breathing system for low flow and minimum flow applications	
			11.5.2 Total volume approx. 3.65 L (incl. CO2 absorber when applying a maximum tidal volume of 1,500 mL)	
			11.5.3 With bypass valve located in breathing system allowing continuous machine operation while charging CO2 absorber	
			11.5.4 With pup off pressure release valve located at the APL valve	
			11.6 Vaporizer: must be a variable type with one unit of sevoflurane & Isoflurane vaporizer. Must have no cloth component which allows the item to be functional immediately even transporting it in an upside-down position	
			11.7 Must have a water trap system at the back for the protection of the anesthesia machine	
			11.8 System and displays:	
			11.8.1 15.3” touchscreen, configurable screen contents	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			11.8.2 Front panel with LC display of airway pressure, supply status of battery and gases (CGS+cylinders)	
			11.9 Gas Monitoring	
			11.9.1 O2 sensor cell with 2 years guaranteed minimum life span and with life span monitoring	
			11.10 Advanced and Safety Features	
			11.10.1 Integrated device checklist and illustrated step by step instructions for daily machine preparation	
			11.10.2 Back up manual mode allows the direct change to manual ventilation while maintaining gas and ventilation monitoring : O2, Air, (N2O option) and anaesthetic agents from the vaporizers can be continuously delivered	
			11.10.3 Mechanical ventilation with ambient air in case of complete failure of the gas supply	
			11.11 Other functions and features:	
			11.11.1 Automatic start up and self test of machine including calibration of all sensors and testing of all control valves, normally no user action necessary after start of test	
			11.11.2 CBM mode (cardiac bypass mode)	
			11.11.3 Breathing bag as an indicator of fresh gas deficiency and leaks	
			11.11.4 Pause mode for short term interruptions of ventilation	
			11.11.5 Integrated, dimmable illumination of working and documentation surfaces	
			11.11.6 Central brake, smooth running castors	
			11.12 Parameters	
			11.12.1 Tidal volume required : 50ml – 1500ml (during volume control modes)	
			11.12.2 Respiratory rate (RR) 3 to 100/min	
			11.12.3 Inspiratory time (Ti) 0.2 to 10 s	
			11.12.4 Inspiratory Pressure (Pinsp) PEEP +5 to 80 hPa (cmH2O)	
			11.12.5 Pressure limitation (Pmax) PEEP +10 to 80 hPa (cmH2O)	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			11.12.6 Trigger threshold (Trigger) 0.3 to 15L/min	
		12	One (1) Dehumidifier	
		13	Air Conditioning Unit	
			13.1 One (1) unit of Split type 3TR Airconditioning Unit procedure room (with five years warranty)	
			13.2 Two (2) brand new split type 1.5 HP Air conditioning unit (for control room and equipment room)	
			13.3 Airconditioning system requirements must be based on the recommendation of the supplier and evaluation of the engineering department of the end-user	
		14	Defibrillator	
			14.1 Advanced 4-in-1 designed Defibrillator/Monitor: monitoring, manual defibrillation, AED and pacer	
			14.2 Monitoring with ECG, RR and HR	
			14.3 7” TFT Color Display	
			14.4 Resolution: 800 x 480 pixels	
			14.5 Weight: 6.1 kg with battery and paddles	
			14.6 Max: 3 waveforms	
			14.7 16s on screen ECG waveform	
			14.8 High contrast display - Make it easier to use in high illumination environment	
			14.9 Color Coded easy to use panel	
			14.10 3/5 lead ECG with ARR	
			14.11 Respiration	
			14.12 Recorder (50mm)	
			14.13 IP44 Level – Highest level for Dust Proof and waterproof certification	
			14.14 Can be drop up to .75 meters	
			14.15 Bump: Meets the requirements of 6.3.4.2 EN1789	
			14.16 Biphasic Truncated Waveform Technology with Impedance compensation and wide range Output energy selection (J): 1,2,3,4,5,6,7,8,9,10,15,20,30,50,70, 100,150,170,200,300,360 Joules	
			14.16.1 Default configuration meets 2015 AHA/ERC Guidelines	
			14.16.2 Defib operations can be done by just one person on the paddles	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			14.16.3 Energy selection, Charge and Shock Button both in paddles and front panel	
			14.16.4 2 seconds power on	
			14.16.5 3 seconds charging to 200 Joules, less than 7 charging seconds for 360J	
			14.16.6 2.5 seconds recovery time	
			14.16.7 Patient Impedance: 25-300 Ohms	
			14.16.8 With Thoracic Impedance Indicator on the Paddles	
			14.16.9 With User Test capability	
			14.16.10 Powerful Data Storage	
			• 100 patients' profiles	
			• 1000 events for each patient	
			• 24h consecutive ECG waveform storage	
			• 180 minutes voice recording (Customized on/off)	
			• 72h tabular trends	
			• Data management software	
			• Freezing Waveforms	
			• Up to 3 waveforms	
			14.16.11 Battery: Rechargeable Lithium-Ion Battery up to 6 hours continuous capacity, recharge less than 4 hours to full capacity or 200 shocks of 360 Joules	
			14.16.12 Battery LED indicator - no need to power on to check remaining power	
			14.16.13 Power Supply: 100-240V, 50/60 Hz; Current: 1.8A to 0.8A	
			14.16.14 Input Voltage: 12VDC	
			14.16.15 Power Consumption: 190W	
			14.16.16 Automated Test: Daily & weekly test when powered off and connected to AC power	
			14.16.17 User Test: Comprehensive tests, easy to conduct, Including maximum energy delivery test	
			Accessories (For Defibrillator):	
			a. External Paddles Kit	
			b. External Pads kit	
			c. Conductive Gel	
			d. Lithium Ion Battery	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			e. Power Cord	
			f. ECG cable	
			g. Leadwires	
		15	Heavy duty ergonomic office chairs (6 pcs)	
		16	Heavy duty metal working tables (3 pcs)	
		17	Six (6) tier metal storage cabinets (2 pcs)	
		18	Six (6) tier wooden rack (2 pcs)	
		19	65" 4K Android TV (1 unit) with wheeled trolley and bracket for wall options	
		M. Warranty:		
		➢	Five (5) years warranty on parts and services for the CT Scanner including tube and detector	
		➢	Five (5) years warranty on parts and services for the UPS and Transformer	
		➢	Three (3) years warranty on parts and services for the Anesthesia machine	
		➢	Five (5) years warranty on parts and services for the Airconditioning System	
		➢	Two (2) years warranty on parts and services for the Secondary Workstation	
		➢	One (1) year warranty on parts and services for the other third party items (Dual Head contrast Injector, Dehumidifier, etc)	
		➢	Warranty period shall commence from the date of acceptance by the end-user after testing and commissioning	
		➢	Latest software and hardware upgrade (based on manufacturer's standard) included for free without additional charge to PCMC during the warranty period. Certification must be provided semi-annually regarding updates and/or no updates.	
		➢	Quarterly preventive maintenance on the CT Scanner, anesthesia machine, power injector, UPS, transformers and air conditioning system and units (free of charge during the warranty period)	
		BRAND:		
		MAKE/MODEL:		
		Other Specifications: ***(please indicate if applicable)***		

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
1	**unit**	**Magnetic Resonance Imaging (MRI) Scanner Three (3) Tesla**		
		A. General Requirement:		
		1	Advances in a powerful new technology, within five (5) years in the market (RSNA launched)	
		2	Advanced noise reduction technology, significantly reducing acoustic noise at least 93% during complete MRI examinations. Advance MRI cardiovascular reading for the evaluation of blood flow dynamics and ischemic heart disease as well as fast and intuive assessment of general vascular packages	
		3	CCTV System with LCD Display for patient observation	
		4	With a built in Pipe in music system	
		5	Must have two-way Intercom system	
		B. Main Magnet:		
		1	Must be Three (3) Tesla	
		2	Actively shielded	
		3	Passive and Active shimming available	
		4	Second High Order Shim is available (5 non-linear channel)	
		5	3D Shim: Time to shim must be approximately 15 seconds	
		6	Automated shimming of the higher order shimming channels for optimal homogeneity of the larger CSI volumes	
		7	Helium based cryogen system, must be zero-boil off type	
		8	Patient bore diameter at least 70 cm	
		9	Field of view must be 55 × 55 × 50 cm3	
		10	System length with cover should be 186 cm or shorter	
		11	Magnet length must be 172 cm or shorter	
		12	Magnet weight (with cryogens) not more than 5,500 kg.	
		C. Gradient System:		
		1	Must be at least 33 miliTesla/meter or higher gradient strength (x,y and z axes)	
		2	Slew rate must be at least 200 T/m/ms	
		3	Gradient duty cycle: 100%	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		4	Reduction of energy consumption by automatic deactivation of active system components if possible e.g. the cold head compressor is periodically switched off during system standby or power off	
		D. Resolution Parameters:		
		1	Field of view: must be minimum of 5 mm, maximum of 550mm	
		3	Slice thickness in 2D: must be minimum of 0.1 mm, maximum of 200mm	
		4	Partition thickness 3D: should be minimum of 0.05 mm, maximum of 20 mm	
		5	Slab thickness 3D: must be minimum of 5 mm, maximum of 500 mm	
		E. Radiofrequency (RF) System:		
		1	Number of independent receiver channels at least 32 that can be used simultaneously in one single scan and in one single FOV, each generating an independent partial image	
		2	RF transmitter power must be at a minimum of 37.5 kW	
		3	Receiver bandwidth should be 500kHz or wider	
		4	Must be digital RF transmitter and receiver	
		5	Transmit and receive system must be integrated at the magnet.	
		6	RF amplifier must be water-cooled and solid state type	
		F. Homogeneity based on highly accurate 24 plane plot (Diameter of Spherical Volume):		
		1	10 cm DSV: 0.002 ppm	
		2	20 cm DSV: 0.016 ppm	
		3	30 cm DSV: 0.07 ppm	
		4	45 cm DSV: 0.83 ppm	
		5	50 cm DSV: 2.3 ppm	
		6	50 x 50 x 50 cm2 DEV: 4.3 ppm	
		G. Radiofrequency (RF) Coils:		
		1	Must be able to combine and position simultaneous coils for longer coverage	
		2	Automatic detection and selection of all coil elements in the active Field-of-View	
		3	All multi-channel coils must be compatible with Parallel Imaging Technique	
		H. The following RF coils must be provided:		

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		1	Head & Neck Coil at least 16 channels or higher: Tiltable with 3 different angular positions (0°, 9° and 18°) for patient comfort	
		2	Spine Coil must be at least 24 channels	
		3	Body Surface coil: At least 12 channels	
		4	Two (2) pcs Flex Coils must be 4 channels or higher	
		5	Pediatric Head and Neck Coil minimum of 16 channels	
		6	Dedicated Foot and Ankle Coil must be 16 channels	
		7	Dedicated Hand and Wrist Coil must be 16 channels	
		8	Knee Coil has to transmit receive coil with 12 channels or higher	
		9	Shoulder Coil must be 16 channels or higher	
		I. MRI console must have:		
		1	Multi-tasking capabilities	
		2	Number of processor two (2) or more	
		3	Clock speed: at least 3.6GHz or higher	
		4	Memory RAM at least 64GB or higher	
		5	Disk capacity for raw data only must be at least 480GB	
		J. Image Software and sequences:		
			The following must be standard with the MRI System:	
		1	Spin echo (SE)	
		2	Fast Spin Echo (FSE) or it's equivalent	
		3	Gradient Echo (GRE)	
		4	Spoiled gradient echo 2D & 3D	
		5	Fast steady state sequence	
		6	Multi-shot EPI	
		7	Single-shot EPI	
		8	Fat-and water saturation	
		9	Fat-and water excitation	
		10	2D and 3D time-of-flight	
		11	2D/3D phase contrast	
		12	Contrast-enhanced MRA (CE MRA)	
		13	Parallel acquisition techniques (PAT)	
		14	Motion correction sequences for the head, chest, cardiac, abdomen in axial, sagital and coronal orientations	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		15	Flow compensations	
		16	Saturation band (multi select/free to angulate/open to user modification)	
		17	Thick maximum intensity projection	
		18	Thin maximum intensity projection	
		19	Multiplanar reconstruction	
		20	Volume rendering technique	
		21	Stitching/composing software	
		22	Automatic calculation of ADC map	
		23	Body diffusion	
		24	Brain spectroscopy	
		25	With motion correction algorithm/package for high-resolution motion free	
		26	Should have motion correction software for uncooperative patients. It should be possible to have the same routine in T1, T2 and FLAIR Imaging	
		27	Diffusion weighted imaging with multi-shot, multi read, segmented EPI techniques	
		28	Perfusion analysis should have capability to calculate color display of rel MTT, rel CBV, rel CBF, if not offered/available on the main console or in the post-processing workstation	
		29	Processing of 2D/3D CSI data with color metabolite mapping, if not offered/available on the main console or in the post-processing workstation	
		30	Facility for quantification of the CSF flow data on the main console, if not offered/available on the main console or in the post-processing workstation	
		31	Feature that helps reduce patient-induced strongly localized B0 inhomogeneities as may arise in the neck region	
		32	Seamlessly integrated Sensor which is designed for automatic cardiac triggering without the need for ECG leads	
		33	Package that comprises access to cutting edge acceleration techniques such as Simultaneous Multi-Slice and Compressed Sensing for static 2D and static 3D imaging applications in Neuro, MSK and Body MRI	
		34	Low noise/quiet imaging technology applicable for neuro, spine and large joints	
		K. Image Software and sequences:		

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		1	Fully automatic left ventricle and semi-automatic right ventricle segmentation	
		2	Volume-time curves	
		3	4D visualization	
		4	Easy user guidance with graphical selection of ED, ES, basal and apical slices	
		5	One-click vessel segmentation	
		6	Color-coded display of velocity values	
		7	Calculation of flow and velocity parameters (e.g. peak velocity, average velocity, flow, integral flow), regurgitation fraction	
		8	Fully automated motion correction of perfusion series	
		9	Specific synchronization of rest and stress series	
		10	Generation of parametric maps: TTP, AUC, Slope	
		11	Interactive pixel-based time course analysis	
		12	Accurate positioning of the anatomy in the isocenter without need for laser light positioning.	
		13	Automatic Field of View calculation	
		14	Automatic detection of five cardiac landmarks	
		15	Metal artifact reduction sequence	
		16	Acceleration technique to maximize productivity for all contrasts, orientations and all routine imaging applications from head-to-toe.	
		L. Workflow Automation		
			The following features must be available in the system	
		1	Automatic coil activation and selection	
		2	Automatic field of view adjustment	
		3	Automatic alignment of slices to the brain and spine	
		4	Automatic spine labeling during scanning	
		5	Automatic Field of View calculation	
		6	Automatic detection of five cardiac landmarks	
		7	Accurate and automatic positioning of the anatomy in the isocenter without need for laser light positioning.	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		8	Automated adaptation of scanning parameters according to anatomical and physiological characteristics	
		9	Automatic Calibration with an integrated reference (calibration) scan to additionally save on total scan time	
		M. Patient Couch		
		1	Computer controlled movements in vertical and horizontal directions	
		2	Fully motorized, with positioning accuracy of +/- 0.5mm or smaller	
		3	Horizontal table movement: Max. range - 2805 mm; Max. speed - 200 mm/s	
		4	Tabletop able to support maximum of 250 kg (550 lbs) patient load	
		5	Emergency manual traction system in case of emergency	
		6	Coil connectors on the patient couch must be 3 or more for simultaneous connection of multiple coils	
		7	AI driven automatic breathing pattern recognition once the patient lie down on the table	
			7.1 The breathing pattern is usable for all exam that include respiratory gating	
			7.2 Applicable for head first and feet first exam	
		N. MRI Acquisition		
			Workstation monitor: Color, LCD, high resolution, 19” or better, screen matrix of 1920 x 1200. Must be able to do:	
		1	Scanning/ Protocols configuration	
		2	Image documentation, viewing and 3D post processing	
		3	Must have CD or DVD drive for importation of DICOM images or external drive of at least 5 TB	
		4	User-friendly Windows Based Operating System	
		O. MRI Viewing/ Post Processing Workstation:		
		1	**Workstation monitor:** Color, LCD, high resolution, 19” or better, screen matrix of 1920 x 1200. Must be able to do:	
			1.1 Processor type: Manufacturer's standard	
			1.2 Memory: at least 96 GB RAM	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			1.3 Graphical processing unit: Manufacturer's standard	
			1.4 RAID configuration: System and Data Disk: SAS 2.5” 6 x 1200 GB (RAID 5)	
			1.5 Networking: 4 x Gigabit Ethernet LAN on-board	
			1.6 Operating system: Windows Server 2016 Standard Edition en-US	
			1.7 Accessories: USB Optical Scroll Mouse USB Standard international keyboard	
			1.8 Gross Image Storage: Approx. 3700 GB	
		2	**Radiology workstations** - two (2) sets of desktop computers with medical grade monitors at least 2MP. Capability of:	
			2.1 Automatically recognizes anatomical landmarks in the acquired images available on the server	
			2.2 Image manipulation: zooming, panning, windowing	
			2.3 Image evaluation: Distance, Angle, Marker, Assisted Perpendicular tool, Region of interest, Volume of interest, Arrow, Pixel lens, Plane annotation text, Synchronized Scrolling based on Anatomical Registration	
			2.4 Image presentation: 2D, MPR, MPR thick, MPR/MPR fusion, MIP, MIP thin, MinIP, VRT, VRT thin, Cinematic VRT	
			2.5 Interactive Segmentation Tools (including: Region Growing, Automatic Organ segmentation and further semi-automatic segmentation tools), Volume measurement on segmentation objects	
			2.6 Automatic Spine and Rib Labeling	
			2.7 Calculation, Motion Correction, Image Filter, 2D/3D Distortion Correction, ADC & b-value calculation, and Composing) MR Neuro Perfusion workflow integrated, results can be transferred between the workflows	
		3	User-friendly Windows Based Operating System	
		4	One (1) Cardiologist workstation	
			4.1 Fully automatic left ventricle and semi-automatic right ventricle segmentation	
			4.2 Volume-time curves	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			4.3 4D visualization	
			4.4 Easy user guidance with graphical selection of ED, ES, basal, and apical slices	
			4.5 One-click vessel segmentation	
			4.6 Color-coded display of velocity values	
			4.7 Calculation of flow and velocity parameters (e.g. peak velocity, average velocity, flow, integral flow), regurgitation fraction	
			4.8 Fully automated motion correction of perfusion series	
			4.9 Specific synchronization of rest and stress series	
			4.10 Generation of parametric maps: TTP, AUC, Slope	
			4.11 Interactive pixel-based time course analysis	
		P. Requirements for the Main Unit per Engineering Clearance		
		1	The unit will be operated at 230 volts, 3-pin power plug/cable, 60 hertz	
			Note: *If 50/60Hz, provide ISO Certificate or equivalent stating that the product has passed the 50/60Hz testing*	
		2	Provide step-up transformer if equipment requires voltage other than 230VAC	
		3	Power consumption must be of maximum < 135 KVA	
		4	Mechanical parts should be of heavy-duty type	
		5	Equipment should be maintainable and serviceable	
		Q. Accessories:		
		1	MRI Compatible Dual-Barrel Injector	
			1.1 Dual-Barrel Contrast Injector (10 ml - 50 ml capacity each)	
			1.2 Injection Mode: Body Weight, Input Mode, Single Mode, Dual Mode, Drip Mode	
			1.3 Ultrasonic Motor: Completely Non-Magnetic Design. Exclusive for MR long-lifetime and trusting performance	
			1.4 Drip infusion: Simplified Drip Mode easy access and easy to set up and use	
			1.5 Body Weight Input Mode: Injector will automatically Calculate the Protocol based Only on Patient weight	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			1.6 Memory: 400 memories (5 user)	
			1.7 Pressure Limit: 10 - 200 psi (100 - 1373kPa)	
		2	MRI Chiller system –water cooled	
			2.1 Dimension: 1100mm x 2100mm x 2050mm (DxPxW)	
			2.2 Quantity of air: max 25,000m3/h	
			2.3 Required quantity of Refrigerant: 13kg	
			2.4 High-pressure switch: 31 bar	
			2.5 Safety valve water circuit /Chiller : 3.0 bar	
			2.6 Cooling capacity: 60.0 kW	
			2.7 Rated cold water of Surroundings 48 degree Celsius	
			2.8 Noise level at 5m : max. 55 db(A)	
		3	MRI compatible wheelchair	
		4	MRI compatible stretcher/gurney	
		5	MRI compatible IV stand	
		6	Ferrous Metal detector	
			6.1 Type: Door Position	
			6.2 Plug and Play: will not require any drilling or special tools to install	
			6.3 Amorphous Sensing: Continuously adapts based on the environment magnetic signature fluctuation as staff and equipment move around throughout the day helping reduce false alarms	
			6.4 Speed detection (Time of Flight) sensor radar like sensing determine the direction and speed of a ferrous item so staff is only alerted of true potential threats heading towards Zone IV	
			6.5 Fully adjustable sensitivity levels to conform to your MRI safety strategy.	
			6.6 Features wireless remote alarm logging unit incident logging for Joint Commission compliance	
			6.7 The remote alarm logging unit touch screen interface allows for staff to quickly and easily log all ferrous items as they enter Zone IV which improves reporting accuracy	
		7	MRI Compatible fire extinguisher	
		8	Patient transfer board	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		9	Appropriate airconditioning units/system	
			9.1 One (1) Brand new temperature and humidity - controlled air conditioning units with back-up (for magnet room and equipment room)	
			9.2 One (1) brand new split type 2.5 HP Air conditioning unit (for control room)	
			9.3 One (1) brand new split type 1.5 HP Air conditioning unit (for waiting room/reception)	
			9.4 Airconditioning system requirements must be based on the recommendation of the supplier and evaluation of the engineering department of the end-user	
		10	Disc Publisher (DVD/CD)	
			10.1 Automatic Recording of patient studies without tying up your workstation or employee resources	
			10.2 Recorded studies can be viewed from Disc on a workstation using one or more DICOM VIEWERS, Specialized Viewers or Custom OEM Viewers	
			10.3 On Demand Disc Creation and Labeling from Modality Workstation	
			10.4 HL7 and DICOM Structured Reports can be received and matched to a patient study allowing the recording of both patient reports and studies	
			10.5 User Interface is available in multiple languages	
			10.6 Scheduled Archive automatically records all studies to disc for back up. It also records a complete history of all Archive activities on each disc.	
			10.7 Compact Design allow for easy siting	
			10.8 Meets industry standards including Dicom part 10, IHE PDI, and audit logs for HIPAA Compliance	
			10.9 Narrated messages provide complete system status at the touch of a button	
			10.10 The Only Publisher licensed and Approved by OMB (Optical Media Board)	
			10.11 Media Inputs: One 20-disc input bin	
			10.12 Media Outputs: One 25-disc output bin	
			10.13 Optical Drives: One CD/DVD drive	
			10.14 Recordable formats: CD-R, DVD-R	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			10.15 Inkjet label print technology	
			10.16 Up to 4800 dpi print resolution	
			10.17 Remote Web Browser access using Internet Explorer	
			10.18 Up to 25 CDs per hour, 10 DVDs per hour	
			10.19 40GB Data Storage	
			10.20 Network protocols: DICOM Store SCP (up to 24 simultaneous connections) DICOM query/retrieve (optional) HTTP Web Server (for remote control and configuration	
			10.21 Full medical device compliance including Class 1 FDA and MDD CE, GMP/QSR, ISO13485: 2003, 60601-1 Safety, EMC/EMI (55011(B) & 60601-1-2) for Healthcare Facilities (attach proof)	
		11	Intercom system for communicating with patient during scanning	
		12	MRI compatible Infusion pump	
			12.1 Intuitive Smart IV Pump Technology & Real Time SpO2 Monitoring	
			12.2 10-digit keyboard entry for ease of programming	
			12.3 LCD Display: at least 6 inches	
			12.4 Wireless Remote Controlled	
			12.5 With optional Sidecar Channel offers a unique and effective way to deliver multiple IV Fluids	
			12.6 With universal IV set allow for accurate delivery of fluids	
		13	MRI compatible patient monitor	
			13.1 Able to monitor adult, pediatric and neonatal patients	
			13.2 Measured Parameters:	
			13.2.1 5 lead ECG (Wireless)	
			13.2.2 Non-invasive blood pressure	
			13.2.3 SPO2 (Wireless)	
			13.2.4 End tidal CO2, Temperature (fiber optic)	
			13.2.5 Temperature (fiber optic)	
			13.3 Screen size: At least 10 inches	
			13.4 Color: Touchscreen LCD	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			13.5 MRI compatible up to 3 Tesla = 30,00 Gauss	
			13.6 Remote controlled (includes communication base station and extended range tablet)	
		14	MRI compatible Anesthesia machine	
			14.1 Main Gas Supply: Oxygen, Air, Nitrous	
			14.2 Patient Application: Adult, Pedia, Neonate	
			14.3 Physical Attributes:	
			14.3.1 Screen Size display: at least 6.5 inches color screen	
			14.3.2 LED light: Two (2) powerful additional LEDS integrated at the top (left and right side) of monitor housing for visual warning and alarms	
			14.4 MRI Compatibility: Distance to MRI system during operation- 40 mtesla/400gauss	
			14.5 Ventillation Modes:	
			14.5.1 Up to six (6) Ventilation Modes	
			14.5.2 Machine must be able to ventilate patient using the preset settings provided by the end user even presence of driving gas is temporarily unavailable	
			14.5.3 High quality ventilation capabilities made possible by its highly accurate, electronically driven ventilator	
			14.6 Breathing System:	
			14.6.1 There should be no changes in the volume and airway pressure delivery during mechanical ventilation when fresh gas setting is changed or O2 flush is pressed	
			14.6.2 Bypass valve located in breathing sytem must be present allowing continuous machine operation while changing CO2 absorber	
			14.7 Flow Sensor Principle: Constant temperature hot-wire anemometer	
			14.8 Vaporizer:	
			14.8.1 Standard of one (1) unit vaporizer with Transport position	
			14.8.2 With at least three (3) drawers	
			14.9 Advanced Safety Feature:	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			14.9.1 When the battery is completely discharged, all pneumatic functions continue to be available (APL valve, breathing pressure gauge, cylinder and pipeline gauges, fresh gas and agent delivery, and O2, AIR, and N2O flow meters). Manual or spontaneous ventilation can be maintained	
			14.9.2 Must have two (2) Tesla sensors that constantly active when main power switch is turned on, standby mode and operation in battery mode	
			14.9.3 Must have > 45 minutes back up battery operation	
		15	RF Coils cabinet	
		16	Heavy duty ergonomic office chairs (6 units)	
		17	Heavy duty working steel tables (3 units)	
		18	6-tier storage steel cabinets (2 units)	
		19	6-tier wooden rack (2 units)	
		20	65" 4K Android TV (1 unit) with wheeled trolley and bracket for wall options	
		21	One (1) compatible UPS of at least 3 kVA for the Radiology Workstations	
			Brand:	
			Model:	
		22	One (1) unit Modular type UPS (capacity will be based on manufacturer's recommended KVA) with capacity of at least 10 minutes back-up for the whole MRI system and chiller	
			Brand:	
			Model:	
		Note: Terms and conditions for the supply of the UPS		
		> UPS should be online and have the capacity to protect the equipment from all expected faults or emergencies during regular use and usual conditions during ordinary course of usage which includes but not limited to the following:		
			Under voltage and over voltage protection	
			Single phase	
			Neutral drift and neutral failure	
			Electromagnetic interference (EMI) & harmonics protection	
			High voltage transients and electrostatic discharge	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
			Output short circuit with pulse by pulse current limit protection	
		> UPS shall be protected against the following:		
			Input supply to the UPS (TVSS)	
			Under voltage and over voltage protection	
			Rectifier over voltage protection	
			Over temperature protection	
			External magnetic field protection	
			High voltage transients and electrostatic discharge protection	
			Short circuit and overload protection	
		23	One (1) TVSS	
			Brand:	
			Model:	
		24	Circuit breakers	
		Note: **Safety electrical devices should be compatible to the equipment power requirement and proper grounding when needed**		
		R. Warranty:		
		➢	Five (5) years warranty on parts and services for the MRI Scanner	
		➢	Three (3) years warranty on Anesthesia machine	
		➢	Five (5) years warranty on parts and services for the UPS, Transformers and Air-Conditioning System and units	
		➢	One (1) year warranty on all third party items (Dual Barrel Injector, Ferrous Metal Detector, Fire Extinguisher, Patient transfer board, Disc Publisher, Infusion Pump, etc.)	
		➢	Warranty period shall commence from the date of acceptance by the end-user after testing and commissioning	
		➢	Latest software and hardware upgrade (based on manufacturer's standard) included for free without additional charge to PCMC during the warranty period. Certification must be provided semi-annually regarding updates and/or no updates	
		➢	Quarterly preventive maintenance on the MRI Scanner, anesthesia machine, power injector, UPS, transformers and air conditioning systems and units (free of charge during the warranty period)	
		BRAND:		
		MAKE/MODEL:		

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	**UNIT**	**Item Description**		
		Other Specifications: ***(please indicate if applicable)***		
		Turn-key (for both CT Scan and MRI):		
		1	Fire protection system (dry suppression or whichever is applicable) compatible to existing system	
		2	Fire Detection and Alarm System (FDAS) compatible to the existing system	
		3	Supply/Installation of electrical line shall be shouldered by the awarded bidder. The electrical line shall be connected to the powerhouse	
		4	Site Preparation: The supplier shall make the necessary site preparation (such as floor leveling, provision of cable pits and ducting, etc.) based on the installation requirements of the **brand** of the equipment and accessories to be supplied. The cost of the site preparation works shall be borne by the supplier - including renovation of other areas within Radiology Division. Elevate program proposal for the existing CT Scan and MRI machines	
		5	The winning bidder shall renovate the room in accordance with the room requirement of the machines (see attached existing Radiology layout). Layout and design shall have prior approval by the end-users.	
		6	Room renovation including repainting and other civil electrical and air conditioning works including selected rooms at the Radiology Division such as reception, patient waiting area, patient screening area and recovery room and must be based on the existing size of the area	

PCMC REQUIREMENT				BIDDER'S OFFER TO COMPLY WITH THE REQUIREMENTS
QTY	UNIT	Item Description		
		7	Interior Design Finishes (child-friendly design): The winning bidder shall do the interior design finishes in the CT scan and MRI room and control rooms. The design and materials for the finishes shall be approved by the Head of the health facility prior to installation. The cost of the interior design finishes shall be borne by the supplier. It shall include necessary room renovations (room layouts, floor plan and architectural perspective), planning and moving-in services of the equipment)	
		8	Winning Bidder shall provide as built plans of the following:	
			> Architectural/Civil	
			> Mechanical	
			> Electrical	
			> Plumbing/Sanitary	

PCMC has the right to reject any or all bids without offering any reason, waive any required formality and award the contract to any bidder whose proposals as evaluated by PCMC is the most advantageous to the government.

COMPANY'S DETAILS:

NAME OF COMPANY

ADDRESS

EMAIL ADDRESS **TEL. NO. / FAX NO.**

AUTHORIZED REPRESENTATIVE'S INFOS:

Signature over Printed Name **Designation/Position**

Email Address **Mobile No.**

PHILIPPINE CHILDREN'S MEDICAL CENTER
Quezon Avenue, Quezon City

TERMS OF REFERENCE

The Philippine Children's Medical Center is a GOCC operating by virtue of the PD#1631 located at Quezon Ave. corner Agham Rd. Quezon City. We are a pediatric specialty center with a mandate to implement collaborative research and training, and deliver the most responsive service to vulnerable children thus the procurement of Brand New One Unit Computed Tomography Scanner Machine 128 Slices and Brand New One (1) Unit Magnetic Resonance Imaging Scanner Three (3) Tesla is needed with the following scope of work:

I. CT SCAN

A. Renovation Works

1. CT SCAN Area

a. Ceiling Finish
   - 12mm thick gypsum panels on metal furring with mural
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Mural Design and Installation for CT Scan Exam Room
e. Supply and Installation of Double Swing Leaded Door
f. 2mm Lead sheet
g. Supply and Installation of Leaded Door
h. Supply and Installation of Flush Door with Jamb
i. Supply and Installation of Hanging Cabinets
j. Supply and Installation of Laminated Countertop Table
k. Wall Demolitions and floor chipping works
l. Wall Erection
m. Re-installation of HEPA Filter Negative Pressure

2. Radiology Lobby

a. Ceiling Finish
   - 12mm thick gypsum panels on metal furring
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Installation of Counter Table with Granite

3. Radiology Hallway

a. Ceiling Works
   - Acoustic Board 600mmx600mm
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting

4. Ultrasound Room 1 and 2

a. Ceiling Works
   - Acoustic Board 600mmx600mm
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Supply and Installation of Laminated Hanging Cabinet

e. Supply and Installation of Flush door with Jamb
f. Comfort Room Renovation
g. Mural Design and Installation
h. Re-installation of HEPA Filter Negative Pressure

5. Locker Room

a. Ceiling Works
   - Acoustic Board 600mmx600mm
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Supply and Installation of Flush door with Jamb

6. Radiology Pantry (non-aircon)

a. Ceiling Works
   - Acoustic Board 600mmx600mm
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Supply and Installation of Flush door with Jamb
e. Supply and Installation of Hand Sink

7. Radiology Administration Office

a. Ceiling Works
   - Acoustic Board 600mmx600mm
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Wall Painting
d. Supply and Installation of Laminated Hanging Cabinets
e. Supply and Installation of Flush door with Jamb
f. Supply of Laminated Office Tables
g. Comfort room Renovation

B. Mechanical and Electrical Works

1. Supply and Installation of Feeder Line from Hospital Powerhouse to Equipment Room

2. Supply and Installation of appropriate Electrical Safety Devices
   a. Circuit Breakers
   b. Panel Boards

3. Supply provisions for electrical requirements
   a. Cable Trays
   b. Cable Ducts
   c. Cable Pipes

4. Installation of Electrical Devices
   a. Lighting Fixture
   b. Outlet
   c. ACU Power Cable

5. Medical Gas Pipes Installation

6. Installation of Fire Suppression Devices on CT Exam and Control Room

7. CCTV Installation on Radiology Hallway and Lobby

II. MRI

A. Renovation Works

1. MRI Room

a. Supply and Installation of RF Cabin
b. Floor Leveling
c. Ceiling clearing
d. Wall Painting
e. Wall Demolitions and floor chipping works
f. Wall Erection
g. Comfort Room Renovation for CT+MRI Area

2. MRI Equipment Room

a. Ceiling Finish
   - 12mm thk gypsum panels on metal furring with mural
b. Floor Finish
   - Anti-Static Roll Vinyl
c. Supply and Installation of Flush Door with Jamb
d. Wall Painting
e. Wall Demolitions and floor chipping works
f. Wall Erection

B. Mechanical and Electrical Works

1. Supply and Installation of Feeder Line from Hospital Powerhouse to Equipment Room

2. Supply and Installation of appropriate Electrical Safety Devices
   a. Circuit Breakers
   b. Panel Boards

3. Supply provisions for electrical requirements.
   a. Cable Trays
   b. Cable Ducts
   c. Cable Pipes

4. Installation of Electrical Devices
   a. Lighting Fixture
   b. Outlet
   c. ACU Power Cable

5. Medical Gas Pipes Installation

6. Installation of Fire Suppression Devices on MRI Control Room

III. OTHERS

1. Dismantling and Pull out of MRI and CT Scan Machine with an equivalent amount for the appraised value of equipment for disposal

   Book Value:

   a. CT Scan : Php 3,291,420.00
   b. MRI : Php 3,824,920.00

   Total : Php 7,116,340.00

2. Provide architectural layout to accommodate the installation of both machines within the allotted space without compromising the health and safety of the surrounding areas.

   a. Floor plan, reflective ceiling plan, perspective plan, electrical & mechanical plan.

3. Provide an as-built plan

    a. Floor plan, reflective ceiling plan, perspective plan, electrical & mechanical plan.

4. Winning bidder must provide all the necessary works/support/systems/documentations and others including the needed requirements in obtaining permits and licenses for the normal/standard operation of these equipment.

CONFORME:

_____	_____
Authorized Signatory Signature over printed name	Contact No:

_____	_____	_____
Name of Company/Firm	Company's Official Email Address (where notices will be sent)	Company's Official Contact No.