

## **Amendment No.1**

**Date: 01/02/2014**

**Subject: Amendment to the Tender Enquiry Document**

**Ref:Tender Enquiry No.: HLL/PCD/BBC/01/13-14 dated 21/01/2014.**

The pre-bid meeting for the referred tender enquiry was held on 24/01/2014. Based on pre-bid discussions following amendments are being incorporated in the referred tender enquiry document.

### **Section II** **General Instructions to Tenderers(GIT)**

**(1) For:-**

#### **22.Submission of tenders**

22.1: Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh. In case of bulky tender, which cannot be put into tender box, the same shall be submitted by the tenderer by hand to Head (P&CD) or his nominee, HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

**Read as:**

#### **22.Submission of tenders**

22.1: Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at **HLL Lifecare Ltd, Dept. of Biomedical Engineering, TENRA – 22, TC 24/606, Palathinkara, Thycaud Thiruvananthapuram. 695014**. In case of bulky tender, which cannot be put into tender box, the same shall be submitted by the tenderer by hand to **Head (P&CD)** or his nominee, **HLL Lifecare Ltd; Dept. of Biomedical Engineering; TENRA – 22, TC 24/606, Palathinkara, Thycaud Thiruvananthapuram**. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

### **Section VI** **List of Requirements**

**(1) For:-**

#### **Part II: Required Delivery Schedule:**

**a) For Indigenous goods or for imported goods if supplied from India:**

90 days from date of Notification of Award to delivery at consignee site.

**Read as:**

**a) For Indigenous goods or for imported goods if supplied from India:**

90 days from date of Notification of Award to delivery at consignee site or 90 days from the date of handing over of site whichever is later. The delivery of accessories should be along with the main equipment.

**(2) For:-**

**b) For Imported goods directly from foreign:**

90 days from the date of opening of L/C.

**Read as:**

**b) For Imported goods directly from foreign:**

90 days from the date of opening of L/C or 90 days from the date of handing over of site whichever is later. The delivery of accessories should be along with the main equipment.

**(3) Clarification regarding Warranty and CMC Period**

**Warranty period** will be 36 months from the date of installation, commissioning and acceptance or 42 months from the date of last shipment/dispatch, whichever is earlier.

The cost of **Comprehensive Maintenance Contract (CMC)** which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next **5 years** on yearly basis for complete equipment and Turnkey (if any).

**Section – VII**  
**Technical Specifications**  
**Schedule No.1**

**(1) Existing Specifications:**

2.1 k. The front panel display at the magnet should display coil, table position and also remote selection of coil elements.

**Read As:**

2.1 k. (DELETED)

**(2) Existing Specifications:**

2.4 b. Head coil.

**Read As:**

2.4 b. Head & Neck coil.

**(3) Existing Specifications:**

2.4 c. Neck coil.

**Read As:**

2.4 c. (DELETED)

**(4) Existing Specifications:**

2.4 k. Optional: Coil for Cardiac Imaging with 5 channel or more.

**Read As:**

2.4 k. Optional: Coil for Cardiac Imaging with 4 channels or more.

**(5) Existing Specifications:**

2.4 o. Optional: Neurovascular Coil.

**Read As:**

2.4 o. (DELETED)

**Added para:**

**BUILDING CONSTRUCTION FOR 1.5 T MRI CENTER ATVSS MEDICAL COLLEGE, BURLA & MKCG MEDICAL COLLEGE, BERHAMPUR. (TURNKEY)**

The Turnkey works including civil works (construction of MRI Scan center), interior works, flooring, false ceiling, painting, electrification works, supply of furniture, electrical fittings, air-conditioning etc.

1. The Supplier should inspect the proposed Land area offered by the Medical College in which the MRI system has to be installed and submit the plan for complete construction of MRI Scan Centre building and installation on a turnkey basis. The plan to construct the building and to modify the area to suit the requirement of a functional MRI Scan Centre and its corresponding cost has to be provided by the bidder. The bidder shall provide the detailed site plan for respective MRI centres along with the bid. The schematic plans of both the centres can be referred below. The lay out plan and detailed drawing has to be approved by the HLL authorities. The cost of construction for each scan center namely, ATVSS MEDICAL COLLEGE, BURLA & MKCG MEDICAL COLLEGE, BERHAMPUR shall be provided separately.
2. The concept plans of both sites are given below for reference. The actual site plan drawing and the list of works along with complete specification (B.O.Q) for civil, public health, electrical; air conditioning must be spelt out and provided along with the tender. While preparing the plan, the following aspects have to be addressed.
  - i. Construct the Building with suitable structural strength of foundation and superstructure.
  - ii. Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
  - iii. RF shielding for doors, walls, glass viewer, etc.
  - iv. Furniture : Workstation, Chairs, shelves & Cabinets etc.
  - v. Patient recovery bed with accessories/side table etc.
  - vi. Patient stretcher and other furniture / accessories to make the scan center functional.
  - vii. The chiller platform and DG platform to be so located that it does not hinder the smooth functioning of the scan center or neighbouring facilities.
3. **The cost of Turnkey will be added for Ranking / Evaluation purpose.**
4. **Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.**
  - a) Civil works - Construction of building
  - b) Electrical work

- c) Public health (water supply and sanitary fittings).
- d) Air Conditioning (HVAC)
- e) Interior Furnishing & Furniture
- f) Miscellaneous items if any.

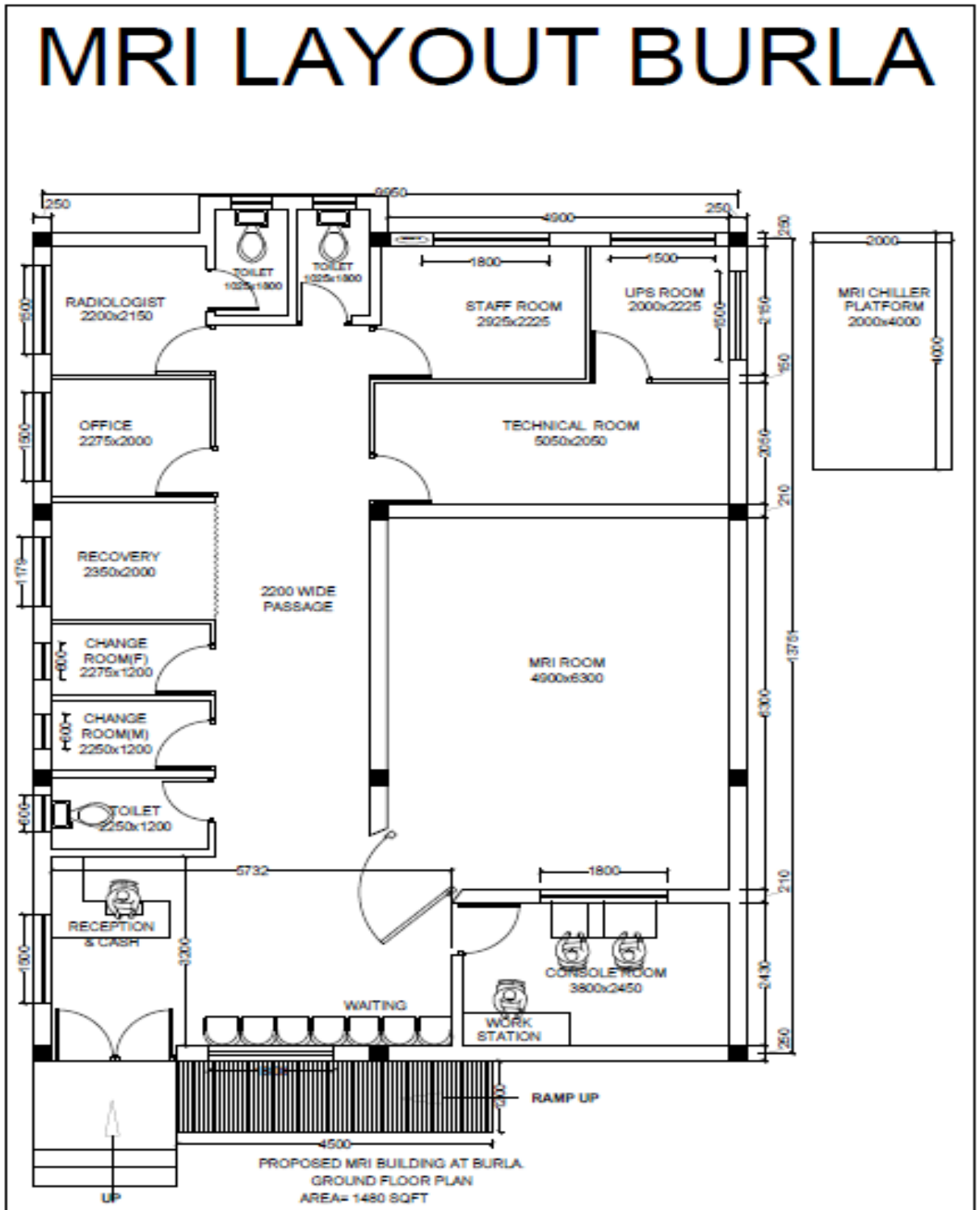
**5. Scope of work for turnkey MRI unit works:**

**5.1** -The concept plans of both sites are enclosed for only for reference. The supplier should inspect the proposed land and submit all the detailed structural and architectural drawings and BOQ for the proposed MRI Scan Centres along with tender.

**5.2.** Construction of suitable building(s) at proposed site(s) as per the final approved plan(s) shall include the following rooms:

**ATVSS MEDICAL COLLEGE, BURLA**

1. MRI Room
2. Console room
3. Technical room
4. UPS room
5. Reception area & Cash counter
6. Patient waiting area
7. Radiologist room
8. Staff room
9. Office room
10. Recovery Room
11. Change Rooms (M & F)
12. Toilets
13. MRI Chiller platform

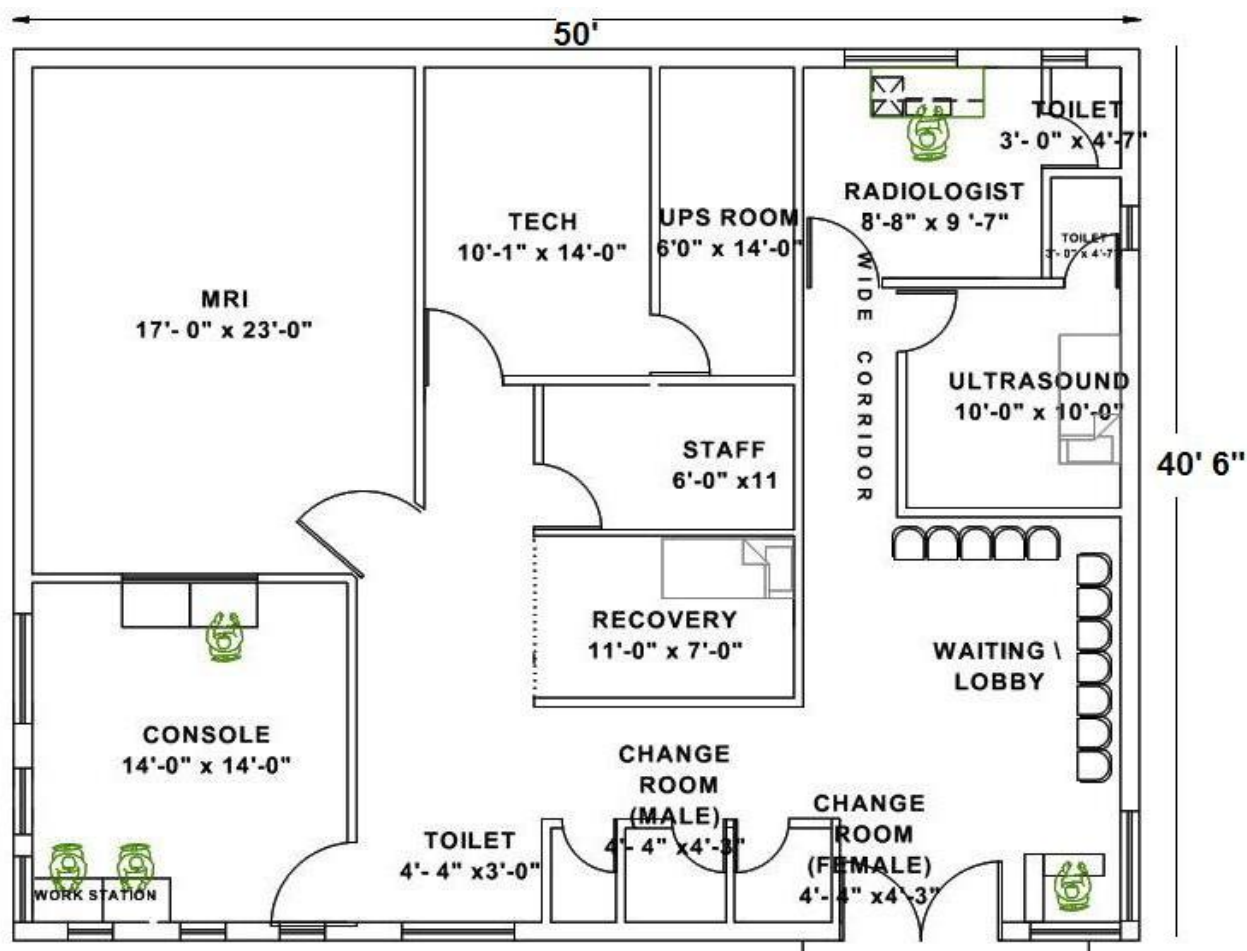


## MKCG MEDICAL COLLEGE, BERHAMPUR

1. MRI Room
2. Console room
3. Technical room
4. UPS room
5. Ultrasound room
6. Reception area & Cash counter
7. Patient waiting area
8. Radiologist room

9. Staff room
10. Recovery Room
11. Change Rooms (M & F)
12. Toilets
13. MRI Chiller platform

## MRI SCAN CENTER LAYOUT - BEHRAMPUR



**5.3** *The actual area of turnkey work done by the supplier; based on the site measurement will be considered for turnkey payment.*

### 6. Scope of work:

#### 6.1 Civil

The supplier is responsible for construction of the buildings at ATVSS MEDICAL COLLEGE, BURLA & MKCG MEDICAL COLLEGE, BEHRAMPUR on the land provided by consignee. The Building should be finished in all respects and made operational for running the MRI diagnostic centre.

#### a) Flooring

1. 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2. 50 mm thick cement concrete flooring with Vinyl flooring in MRI room, Technical Room & UPS room.
3. Chiller & DG Platforms on concrete beds of appropriate thickness: as per the system requirement.

**b) Painting**

1. Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in all areas except MRI ROOM.
2. Pre laminated particleboard wall panelling in MRI room.

**c) False Ceiling**

Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.

**6.2 Plumbing work**

1. All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make.
2. Piping for MRI chiller and its control panel and fittings should be provided using Stainless steel or non-ferrous metal like Copper or Brass.

**6.3 Electrical work**

1. The supplier shall be required to specify the total load requirements for the MRI centre including the load of air conditioning, room lighting and all accessories. The mains panel & distribution panel should be provided by the supplier. Few lights in each room shall be connected to the UPS to provide emergency lighting.
2. The electrical work shall include the following:
  - a. Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.
  - b. Double earthing with copper plate for the MRI and all accessories should be as well as the earthing for the AC should be done by the supplier.
  - c. Switches light and power points should be of modular type and of standard make as listed below.
  - d. General lights – Mirror optical type 1X28 W or 2X28 W/CFL fittings 2X36, 3X36 W with electronic ballasts.
  - e. Fencing and weather protection facility should be provided for Chiller unit.
  - f. The input & output mains cable of Diesel Generator/Mains Panel to be provided by supplier.

**6.4 Air conditioning:**

All rooms mentioned above need to be air-conditioned. Ducted package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be provided to effectively eliminate moisture condensation on the equipment. The Air conditioning should be designed with standby provision to function 24 hours a day. The outdoor units of AC should have grill coverings to prevent theft and damage. Ventilation is required in toilet.

**Environment specifications:**

- a) Humidity range: Relative humidity 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.
- b) Temperature ranges: 22 +/- 2° C in all areas throughout the year, except equipment room which shall be as per requirement of the equipment.
- c) Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the supplier.

**6.5 Furniture:**

- a) All furniture items should be of standard make like Hermen Miller, Godrej, Wipro, Featherlite etc.
- b) Reception-counter with granite top of suitable dimension. Colour to match décor. It should have drawers with locking facility.
- c) Revolving chairs height adjustable with hand-rest in the Console room, Radiologist room and office room, Reception and ultrasound room.
- d) Chairs for patient waiting area – Three seater (chrome plated).
- e) Adequate number of cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement.
- f) Drug trolleys 1 numbers for patient preparation area.
- g) MRI compatible patient trolleys with rubber foam mattress to be kept in the patient preparation room.
- h) Any other furniture item as per requirement.
- i) Suitable tables and chairs in rooms.
- j) Changing rooms should have change lockers.
- k) Dustbins (plastic with lid) to be provided as required.

**6.6 GENERATOR (optional):**

24 hour back up DG set of adequate capacity, reputed makes: like CATERPILLAR /CUMMINS / KIRLOSKAR shall be installed as a standby power source in a separate enclosure. The standby generator should be of adequate capacity in support electrical load of MRI including equipment and AC plant. The standby generator should be enclosed in a sound attenuated & weather proof housing.

**6.7. Miscellaneous:**

- a) LED X-ray film viewer – capable of holding 3 films of 14 x 17cm size – 4no.s.
- b) Broadband connection (with static IP to be provided): for REMOTE SERVICE of MRI system.
- c) Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers; etc.
- d) Computers – 5 No.s (Intel Core 2 Duo processor, 3 GB RAM, 500 GB HDD, with latest windows software & antivirus software, USB mouse and keyboard, Laser Printer with Suitable UPS connection.
- e) The outdoor units of AC / Chiller piping should have grill coverings to prevent theft of copper pipes etc.
- f) Name boards for all rooms.
- g) Fire extinguisher Dry CO2 type as required for the building safety.

**6.8 LIST OF SUGGESTED MANUFACTURERS.**

| SL NO | ITEMS                           | PREFERRED MAKES  |
|-------|---------------------------------|--|
| A     | <b>FLOORING VITRIFIED TILES</b> | Somany, Kajaria , H&R Johnson, RAK india                   |
| B     | <b>PAINT</b>                    | Dulux, Asian Paints , Nerolac                              |
| C     | <b>PLUMBING</b>                 | Kohler, Jaguar , Grohe , Roca                              |
| D     | <b>SANITARY ITEMS</b>           | CERA, Hindware, Parryware                                  |
| E     | <b>ELECTRICAL</b>               |  |
|       | <b>CABLES SWITCHES</b>          | Finolex, Havells ,V-Guard<br>Legrand, L&T, Crabtree , Roma |



| SL NO          | ITEMS  | PREFERRED MAKES   |
|----------------|--|---|
|                | <b>DISTRIBUTION BOX ,<br/>MCB<br/>LIGHT FITTINGS</b> | Legrand, L&T, Siemens, Havells<br><br>Philips / Crompton / Kesselec-Schreder / Wipro. |
| <b>F<br/>G</b> | <b>AIR CONDINTIONING<br/>FURNITURE</b>               | Daikin, Hitachi, Blue Star, Voltas.<br>Hermen Miller , Godrej , Featherlite , Wipro   |

**Added Para:****SITE MODIFICATION WORK FOR 1.5 T MRI CENTER AT MEDICAL COLLEGE, KOZHIKODE & MEDICAL COLLEGE THIRUVANANTHAPURAM.**

The Supplier should inspect the proposed site and they are required to submit the plan for the complete MRI Scan Centre on a turnkey basis. The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of MRI Scan Centre.

While preparing the plan, the following aspects have to be addressed. :

- i. Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
- ii. RF shielding for doors, walls, glass viewer, etc.
- iii. Furniture: Workstation, Chairs, shelves & Cabinets etc.
- iv. Patient recovery bed with accessories/side table etc.
- v. Patient stretcher and other furniture / accessories to make the scan center functional.
- vi. The chiller platform and DG platform to be so located that it does not hinder the smooth functioning of the scan center or neighbouring facilities.

*The cost of site modification for the area shown in the schematic plan for Medical College, Kozhikode & Medical College, Thiruvananthapuram (given below) and the cost of Air-conditioning of Tonnage 10 TR will be considered for Ranking / Evaluation purpose.*

Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.

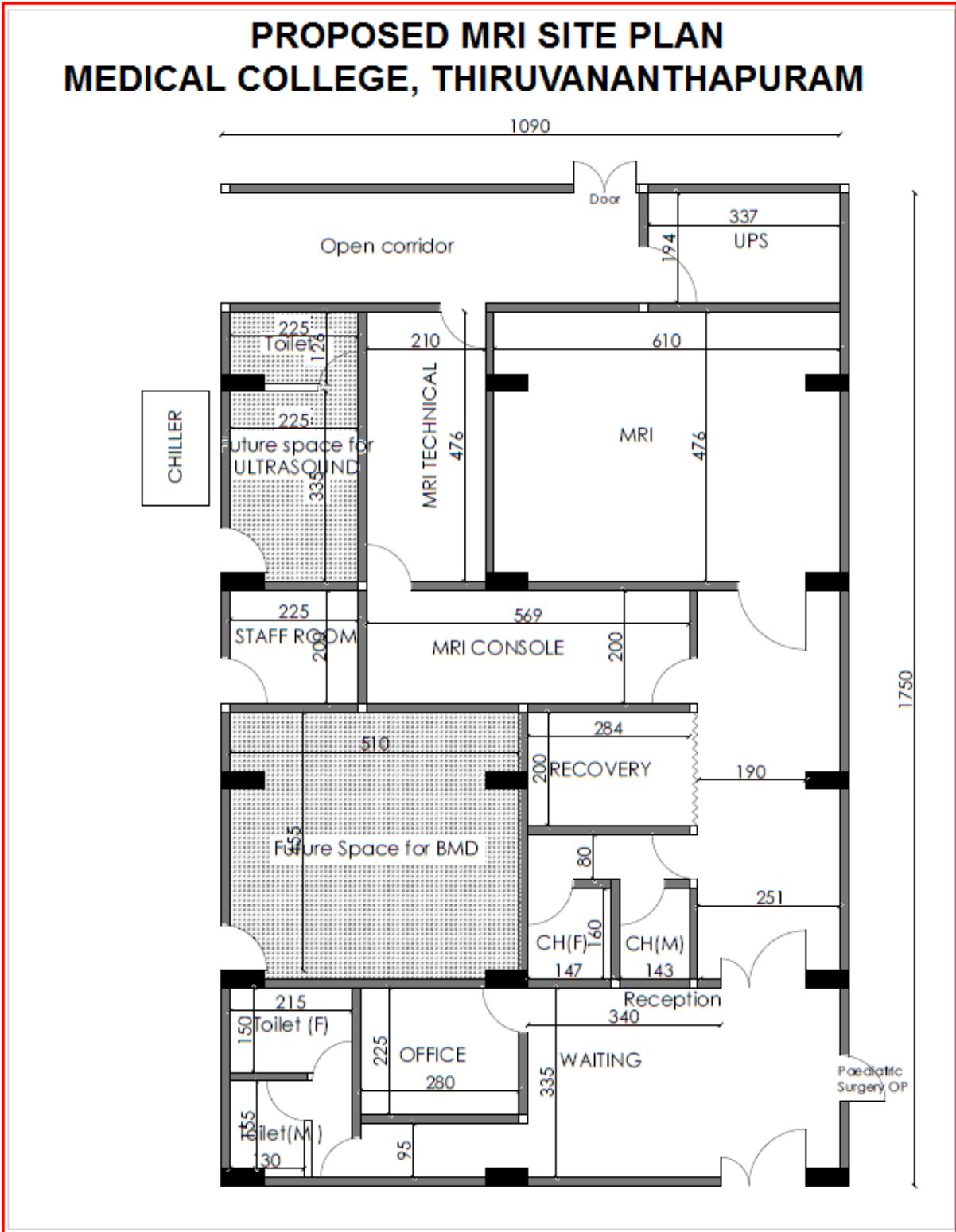
- a) Civil works
- b) Electrical work
- c) Public health (plumbing and sanitary fittings).
- d) Air Conditioning (HVAC)
- e) Interior Furnishing & Furniture
- f) Miscellaneous

**Scope of work:****Civil**

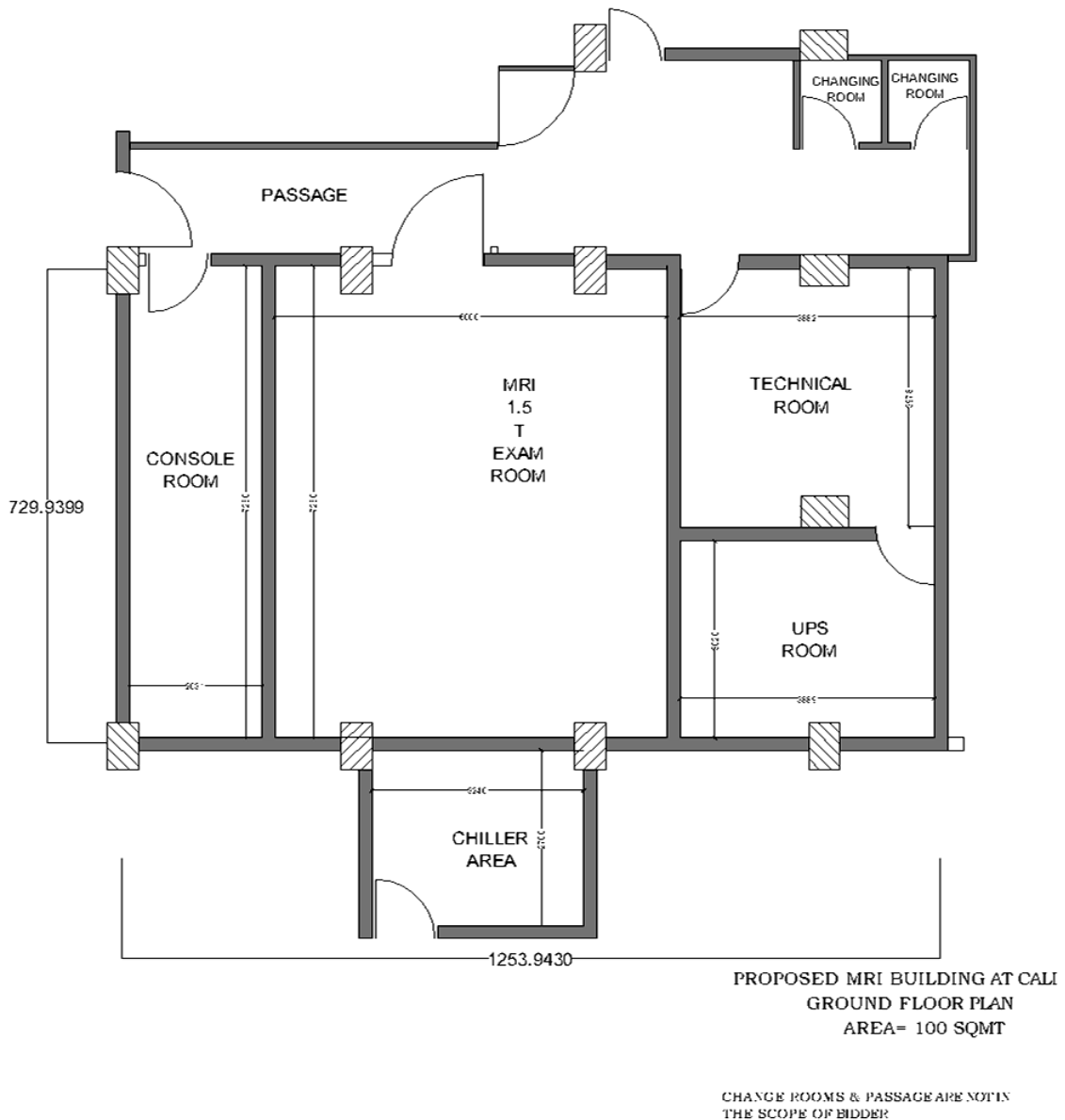
Scope of work for turnkey MRI unit works:-

The supplier should inspect the proposed site and submit all the detailed structural and architectural drawings and BOQ for the proposed MRI Scan Centres along with technical bid of the tender.

The turnkey area shown in the schematic plan given below.:



## PROPOSED MRI SITE PLAN , KOZHIKODE



*The actual area of turnkey works done will be considered for payment, based on the site measurements.*

### 6.1 Civil work

- Civil construction work including construction of brick wall partition, plastering, flooring as per the approved site plan.
- Concrete bed at MRI equipment area.
- Platform for unloading and shifting the MRI should be provided if necessary.
- Platform for Chiller unit would be provided. Fencing and weather protection facility should be provided for the Chiller unit.
- Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
- All the construction work to be done as per the final plan approved by the purchaser.

g) Active and passive room shielding for magnetic, fringe field should be provided as per the requirement of the equipment.

**a) Flooring**

1. 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2. 50 mm thick cement concrete flooring with Vinyl flooring in MRI room, Technical Room & UPS room.
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Ventilation is required in toilet.

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|--------------|---------------------------------|---|
| <b>A</b>     | <b>FLOORING VITRIFIED TILES</b> | Somany, Kajaria , H&R Johnson, RAK india        |
| <b>B</b>     | <b>PAINT</b>                    | Dulux, Asian Paints , Nerolac                   |
| <b>C</b>     | <b>PLUMBING</b>                 | Kohler, Jaguar , Grohe , Roca                   |
| <b>D</b>     | <b>SANITARY ITEMS</b>           | CERA, Hindware, Parryware                       |
| <b>E</b>     | <b>ELECTRICAL</b>               |   |
|              | <b>CABLES</b>                   | Finolex, Havells ,V-Guard                       |
|              | <b>SWITCHES</b>                 | Legrand, L&T, Crabtree , Roma                   |
|              | <b>DISTRIBUTION BOX ,</b>       | Legrand, L&T, Siemens, Havells                  |
|              | <b>MCB</b>                      |   |
|              | <b>LIGHT FITTINGS</b>           | Philips / Crompton / Kesselec-Schreder / Wipro. |
| <b>F</b>     | <b>AIR CONDINTIONING</b>        | Daikin, Hitachi, Blue Star, Voltas.             |
| <b>G</b>     | <b>FURNITURE</b>                | Hermen Miller , Godrej , Featherlite , Wipro    |

**All other terms and conditions of the tender enquiry remain unaltered.**