**Ref: HLL/ID/15/09/Amt-3/2015-16 Dated**:**06-08-2015**

**Amendment No: 3**

**to**

**Tender no. HLL / ID / 15 / 2015-16 Dtd:12.06.2015**

**for**

**AUGMENTATION OF NUCLEAR MEDICINE DEPARTMENT WITH PET- CT UNIT & DUAL HEAD GAMMA CAMERA**

**at**

**JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION & RESEARCH , PUDUCHERRY**

**Ref: Tender Enquiry No: HLL/ID/15/2015-16 Dated 12-06-2015 and subsequent amendments.**

The following amendments are incorporated in the referred tender enquiry document:

**In NIT:**

**For:**

|  |  |
| --- | --- |
| **Tender Security amount (EMD) as DD. However optionally 50% of the EMD shall be in the form of DD and balance in the form of BG** | Rs.26 Lakhs ( Rs. Twenty Six Lakhs only) |
| **Dates of sale of tender enquiry documents** | 15.06.2015 to 14.07.2015, 1000 hrs to 1600 hrs IST |
| **Closing date & time for receipt of Tender** | 15.07.2015, 1400 hrs IST |
| **Time and date of opening of Techno – Commercial tenders** | 15.07.2015, 1430 hrs IST |

**Read As:**

|  |  |
| --- | --- |
| **Tender Security amount (EMD) in the form of DD or Performance Bank Guarantee in the given format.** | Rs.26 Lakhs ( Rs. Twenty Six Lakhs only) |
| **Dates of sale of tender enquiry documents** | 15.06.2015 to 20.08.2015, 1000 hrs to 1600 hrs IST |
| **Closing date & time for receipt of Tender** | 21.08.2015, 1400 hrs IST |
| **Time and date of opening of Techno – Commercial tenders** | 21.08.2015, 1430 hrs IST |

**For:**

* 1. **TIME SCHEDULE**

The tenderer shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of 12 months.

**Read As:**

* 1. **TIME SCHEDULE**

The tenderer shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of **15** months.

**In ITT**

**For:**

1.3 e) Period of completion (Form A) **12 Months** from the date of issue of “Letter of acceptance”.

**Read as:**

1.3 e) Period of completion (Form A) **15 Months** from the date of issue of “Letter of acceptance”.

**For:**

4.8.2 The Tender Security amount (EMD) should be submitted either completely in the form of DD or optionally 50% in the form of DD and balance 50% in the form of Bank Guarantee from a Scheduled Commercial bank in India acceptable to the Employer.

**Read As:**

4.8.2 The Tender Security amount (EMD) should be submitted either in the form of DD or in the form of Bank Guarantee from a Scheduled Commercial bank in India acceptable to the Employer**.**

**In Section IV Employers requirement:**

**1. Introduction to the project:**

**For:**

The Project is scheduled to be completed within a period of 12 months from the date of award.

**Read as:**

The Project is scheduled to be completed within a period of **15** months from the date of award.

**In Technical specification:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Page No** | **Para no.** | **As per Tendered Specification** | **Amended specification** |
| 79 | 3-VII | Automatic Quality control capability | Deleted |
| 79 | 3-VIII | “Performance parameters should conform NEMA NU 1 – 2012 standards or the latest specifications prevailing at the time of supply of equipment and clearly mentioned with literature support. In case of non- availability at the time of supply, performance tests according to the latest standards should be performed as and when available.” | Read as ““Performance parameters should conform **NEMA NU 1 – 2007 standards or the latest** specifications prevailing at the time of supply of equipment and clearly mentioned with literature support. In case of non- availability at the time of supply, performance tests according to the latest standards should be performed as and when available.” |
| 80 | 5 - VII | “Table should have facility for lowering the height to facilitate easy patient transfer and should be movable to permit imaging for sitting, standing, and stretcher/wheel chair patients. Lower range of vertical motion should be 50 cm” | Read as” “Table should have facility for lowering the height to facilitate easy patient transfer and should be movable to permit imaging for sitting, standing, and stretcher/wheel chair patients. Lower range of vertical motion should be **59 cm or less”** |
| 80 | 6 - II | “High performance PC of latest specifications with multi-tasking operating system. It should have a minimum of 8 GB RAM, 2.8 GHz or more processor speed, 1 TB or more SCSI hard drive and high resolution (1024 x1024 or more) antiglare flat panel square LCD monitor of minimum of 22" size. It should also have CD and DVD combo drive with disc-writing capability.” | Read as” “High performance PC of latest specifications with multi-tasking operating system. It should have a minimum of 8 GB RAM, 2.8 GHz or more processor speed, 1 TB or more SCSI hard drive and high resolution (1024 x1024 or more) antiglare flat panel square LCD monitor of **minimum of 19" size**. It should also have CD and DVD combo drive with disc-writing capability.” |
| 81 | 7-IV | “Antiglare high resolution (1024 x 1024 or more) flat panel square LCD monitor of minimum of 21”size.” | Read as“Antiglare high resolution (1024 x 1024 or more) flat panel square LCD monitor of minimum of **19”size**.” |
| 82 | 8-XV | “Complete Cardiac package including First Pass EF and Cardiac Shunt quantification studies, Gated equilibrium, MUGA SPECT, Myocardial Perfusion (Planar and SPECT including Bulls eye), Emory Cardiac Toolbox, and gated SPECT tomography” | Read as” “Complete Cardiac package including First Pass EF and Cardiac Shunt quantification studies, Gated equilibrium, MUGA SPECT, Myocardial Perfusion (Planar and SPECT including Bulls eye), **Emory Cardiac Toolbox or equivalent**, and gated SPECT tomography” |
| 82 | 8-XVI | “Dedicated licensed cardiac software – latest version of Emory Cardiac Toolbox including optional software OR QGS/QPS/QBS for Gated cardiac SPECT quantification. Companion tool for phase analysis should also be included” | Read as ““Dedicated licensed cardiac software – latest version of Emory Cardiac Toolbox including optional software **OR** **full version of licensed latest Cedar QGS/QPS/QBS for Gated cardiac SPECT quantification**. Companion tool for phase analysis should also be included” |
| 82 | 8-XVIII | “Advanced licensed Neuro software–SPM , SISCOM ,and NeuroGam or equivalent” | Read as” "Advanced licensed Neuro software -SPM,SISCOM,and **NeuroGam or equivalent should be provided with one of the post-processing workstations as desired by the user."** |
| 82 | 8-XXII | “QC software package(NEMA NIU 1 2012)or the latest protocol) with documentation”. | Read as “QC software package**(NEMA NIU 1 2007)or the latest protocol**) with documentation”. |
| 85 | 2 -XIII. | “Axial Field of view should be 16 cm or more.” | Should be read as “Axial Field of view should be **15 cm or more**.” |
| 85 | 2-XVI | “Efficient Gantry cooling system for continuous running of the machine with tilt angle+30 degree desired.” | Read as ““Efficient Gantry cooling system for continuous running of the machine” |
| 85 | 3-a | “All specifications must comply with NEMA Standards Publication NU2-2012 or latest performance measurements without altering instrument parameters. QC Software to measure these parameters must be available in the system.” | Read as  “All specifications must comply with NEMA Standards Publication **NU-2007 or latest** performance measurements without altering instrument parameters. QC Software to measure these parameters must be available in the system.” |
| 86 | 3-d | “System Energy Resolution should be≤12.0 %” | Read as “System Energy Resolution should be**≤13.7 %”** |
| 86 | 3-e | “3-D scatter Fraction should be < 36%” | Read as ““3-D scatter Fraction should be < **37%”** |
| 86 | 3-f | “Uniformity should be < 2% variation. The coefficients of variations of Volume should be < 5 % and System should be < 1%.” | Read as “Uniformity should **be < 5% variation**. The coefficients of variations of Volume should be < 5 % and System should be < 1%.” |
| 86 | 3-h | “System should be capable of reconstructing images at the rate of 20 to 40 images/ sec by using HD technology.” | Read as “System should be capable of reconstructing images at the rate of **< 60 sec/bed** by using HD technology.” |
| 87 | 4-VI | “Pitch factor (volume pitch) should be variable between 0.4 to 1.75 and should be freely selectable.Give details of all pitch selection.” | Read as “Pitch factor (volume pitch) should be variable and should be freely selectable. Give details of all pitch selection.” |
| 87 | XIV-e | “The horizontal travel of the bed should enable the full length scanning of a patient in one scan acquisition. Full body horizontal length should be ≥ 190 cm and vertical travel from 60 to 90 cm” | Read as “The horizontal travel of the bed should enable the full length scanning of a patient in one scan acquisition. Full body horizontal length should be ≥ 190 cm and vertical travel **to lowest possible level to unload the patients without footrest.”** |
| 87 | XV-a | “High performance PC of latest specifications withmulti-tasking operating system. It should have a minimum of 8 GB RAM, 2.8 GHz or more processor speed, 1 TB or more SCSI hard drive and high resolution (1024 x 1024 or more) antiglare flat panel square LCD monitor of minimum of 22” size.” | Read as ““High performance PC of latest specifications withmulti-tasking operating system. It should have a minimum of 8 GB RAM, 2.8 GHz or more processor speed, 1 TB or more SCSI hard drive and high resolution (1024 x 1024 or more) antiglare flat panel square LCD monitor of **minimum of 19” size.”** |
| 88 | XV-d | “Latest windows based DICOM compatible software to be provided for acquisition and processing. Latest and upgradeable software and hardware with all licenses (and upgrades for ten years) for all Oncology, Quantitative Cardiology including bolus tracking, CTA, coronary tree, plaque analysis, calcium scoring, bone mineral densitometry, myocardial perfusion quantification, coronary flow reserve and Quantitative Neurology including perfusion application should be provided.” | Read as ““Latest windows based DICOM compatible software to be provided for acquisition and processing. Latest and upgradeable software and hardware with all licenses (and upgrades for ten years) for all Oncology, Quantitative Cardiology including bolus tracking, CTA, coronary tree, plaque analysis, calcium scoring, myocardial perfusion quantification, coronary flow reserve and Quantitative Neurology including perfusion application should be provided. **Bone Mineral Densitometry to be offered as an option if available.**.” |
| 83 |  | 1. System compatible indigenous online UPS with maintenance free batteries for whole system with 30 min back up time. A few ordinary lights will also need to be connected through this UPS. One extra set of battery to be supplied with no extra cost, as and when required. 2. One Co-57 flood phantom source of at least 10 mCi strength for rectangular field of the size adequate for the camera. 3. Imported dose calibrator, for SPECT radionuclides, one number (Capintec-CRC 55 TW or equivalent) including Moly assay canister, with calibration sources for all energies (low, medium and high) with calibration certificate and a compatible label/ticket printer. 4. Moly assay canister. 5. One digital GM based survey - cum - contamination meters (standard make) 6. Two lead lined waste bins (3 mm lead - Technitium) 7. One decontamination kit 8. Long handled Tongs and Forceps- Five each 9. 40 interlocking painted lead bricks and 10 painted Lead corners 10. 12” sized L-Bench with lead glass for 99mTc radio-pharmacy work-one in number 11. Radiopharmacy hood with sliding leaded glass shield and HEPA Filter (Germfree Radiopharmacy hood or equivalent) (Annexure). 12. Five stainless steel syringe carriers having lead lining of minimum 4 mm thickness,   x. Two X-ray LCD illuminators for minimum 2 films view | 1. System compatible indigenous online UPS with maintenance free batteries for whole system with 30 min back up time. A few ordinary lights will also need to be connected through this UPS. One extra set of battery to be supplied with no extra cost, as and when required. 2. One Co-57 flood phantom source of at least 10 mCi strength for rectangular field of the size adequate for the camera. 3. Imported dose calibrator, for SPECT radionuclides, one number (Capintec-CRC 55 TW or equivalent) including Moly assay canister, with calibration sources for all energies (low, medium and high) with calibration certificate and a compatible label/ticket printer. 4. Moly assay canister. 5. One digital - contamination meters (Fluke or equivalnet) 6. **Four lead lined waste bins (3 mm lead - Technitium)** 7. One decontamination kit 8. Long handled Tongs and Forceps- Five each 9. 40 interlocking painted lead bricks and 10 painted Lead corners 10. 12” sized L-Bench with lead glass for 99mTc radio-pharmacy work-one in number 11. Radiopharmacy hood with sliding leaded glass shield and HEPA Filter (Germfree Radiopharmacy hood or equivalent) (Annexure). 12. Five stainless steel syringe carriers having lead lining of minimum 4 mm thickness,   x. Two X-ray LCD illuminators for minimum 2 films view  **xi. Biphasic Defibrillator - 1 no**  **Xii.Vital sign monitor – 1 no.** |
| 91 &92 | XXI | * 1. Radiopharmacy hood for PET Radiopharmacy with sliding leaded glass shield and HEPA Filter (Germfree Radiopharmacy Hood or equivalent)-one number.   2. Lead Shielded Waste containers for PET Radiopharmaceutical waste – 2 nos.   3. Shielded L bench with Lead glass for handling PET isotopes (imported) – 01 nos.   4. 40 Lead bricks and 8 lead corners for F-18 handling   5. Syringe carriers for PET radiopharmaceuticals – 5 numbers (5 mm lead)   6. Isotope dose calibrator for PET radionuclides (capintec or equivalent) with compatible label/ticket printer – 1 number   7. Pocket dosimeter – Gamma & Beta (digital) -02 nos.   8. Area zone monitor – 2 numbers   9. Portable radiation survey meter (digital) -02 nos.   10. Contamination monitors (digital) Fluke or its equivalent - 01 nos.   11. Tungsten shielded syringe holder - Two each for 2 ml, and 5 ml   12. One high resolution network laser color paper printer compatible with the processing the processing workstation and one additional set of all cartridges.   13. **Contrast Pressure injector**: Digitally controlled CT injection system (latest model – dual head) with Pedestal head mount, remote monitor and VRC, syringe heater.   14. **Germanium 68 pin source for the calibration of the system to be replaced as and when required for the period of warranty and CAMC of 10 years.**   15. One **DVD maker** (Epson Disc producer Network Security or equivalent)   16. **ET ACR Quality phantom & Quality control sets as required.** | Read as  a. Radiopharmacy hood for PET Radiopharmacy with sliding leaded glass shield and HEPA Filter (Germfree Radiopharmacy Hood or equivalent)-one number.  b. Lead Shielded Waste containers for PET Radiopharmaceutical waste **– 4 nos.**  c. Shielded L bench with Lead glass for handling PET isotopes (imported) – **02 nos.(for FDG and Ga-68 seperately**).  d. 40 Lead bricks and 8 lead corners for F-18 handling  e. Syringe carriers for PET radiopharmaceuticals – 5 numbers (5 mm lead)  f. Isotope dose calibrator for PET radionuclides (capintec or equivalent) with compatible label/ticket printer – 1 number  g. Pocket dosimeter – Gamma & Beta (digital) -02 nos.  h. Area zone monitor – 2 numbers  i. Portable radiation survey meter (digital) -02 nos.  j. Contamination monitors (digital) Fluke or its equivalent - 01 nos.  k. Tungsten shielded syringe holder - Two each for 2 ml, and 5 ml  l. One high resolution network laser color paper printer compatible with the processing the processing workstation and one additional set of all cartridges.  m. Contrast Pressure injector: Digitally controlled CT injection system (latest model – dual head) with Pedestal head mount, remote monitor and VRC, syringe heater.  n. Germanium 68 pin source for the calibration of the system to be replaced as and when required for the period of warranty and CAMC of 10 years.  o. One DVD maker (Epson Discvproducer Network Security or equivalent)  p. ET ACR Quality phantom & Quality control sets as required |
| **Note** | | **If there is any discrepancy in quantity of accessories between BOQ and Specification, quantity mentioned in the BOQ shall prevail.** | |
| 90 | XIX-C | “Antiglare high resolution (1024 x 1024 or more) flat panel square LCD monitor of minimum of 21” size.” | Should be read as” “Antiglare high resolution (1024 x 1024 or more) flat panel square LCD monitor **of minimum of 19” size.”** |
| 90 | XIX-g | “Latest Emory Cardiac Toolbox to compare PET–SPECT software on the same window” | Read as “Latest Emory or equivalent Cardiac Toolbox to compare PET – SPECT software on the same window.” |

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| --- | --- | --- | --- |
| **Page No** | **Para no.** | **Tendered Specification** | **Amendment** |
| 5 | 2.2.1-ii | “Detailed design engineering including architectural design and construction documents, structural engineering, electrical engineering, heating ventilation and air conditioning plans, medical gases and manifold plan, plan for the central sterile services department, communication and networking plan, fire detection and protection plan and waste management etc.” | Read as ““Detailed design engineering including architectural design and construction documents, structural engineering, electrical engineering, heating ventilation and air conditioning plans, , communication and networking plan, fire detection and protection plan and waste management etc.” |
| 10 | 2.2.1- | “Bidder shall be responsible for the design, installation, testing, and commissioning of the electrical system for the proposed block. Consignee will provide required three phase line from the existing substation.Approximate distance from the nearest substation is 320 m.All remain works including cabling, distribution panel, isolators, MCBs, Switches has to be done by the bidder. Bidder shall be responsible for electrical works and other cabling necessary for the efficient working of the equipment inside the proposed block. Bidder has to provide a backup of 250 KVA Diesel Generator with AMF panel for the proposed facility .Circuit breaker shall be ACB/MCCB.Panel board should be with 2 mm thick CRCA sheet manufactured by panel fabricator having valid CPRI certificate for fabricating similar type of panel. All work shall be carried out as per latest CPWD specification. Total system Gamma camera and PET/CT are to be supported with UPS with 30 minutes back up (full load)” | Read as” “Bidder shall be responsible for the design, installation, testing, and commissioning of the electrical system for the proposed block. Consignee will provide required three phase line from the existing substation.Approximate distance from the nearest substation is 320 m.All remain works including cabling, distribution panel, isolators, MCBs, Switches has to be done by the bidder. Bidder shall be responsible for electrical works and other cabling necessary for the efficient working of the equipment inside the proposed block. Bidder has to provide a **backup of 325 KVA Diesel Generator** with AMF panel for the proposed facility .Circuit breaker shall be ACB/MCCB.Panel board should be with 2 mm thick CRCA sheet manufactured by panel fabricator having valid CPRI certificate for fabricating similar type of panel. All work shall be carried out as per latest CPWD specification. Total system Gamma camera and PET/CT are to be supported with UPS with 30 minutes back up (full load)” |
| **NOTE** | | **The Ratting of 250 KVA Diesel generator shall be read as 325 KVA Diesel Generator where ever mentioned in the tender**. | |
| 12 | 2.3 | “The tenderer shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of 12 months. The detailed program in the form of a Critical Path Method (CPM) network shall include all activities starting from design to completion.” | “The tenderer shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of **15 months**. The detailed program in the form of a Critical Path Method (CPM) network shall include all activities starting from design to completion.” |
| **NOTE** | | **The completion period shall be read as 15 months instead of 12 months where ever mentioned in the tender.** | |

**Amended Revised Annexure B**

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| --- | --- | --- |
| **ROOM BOQ FOR NUCLEAR MEDICINE BLOCK, JIPMER** | | |
| **GF 01** | **RECEPTION + OPD + MAIN WAITING HALL** | |
| 1 | Reception counter desk with glass window | 1 |
| 2 | Revolving chairs | 5 |
| 3 | Perforated 3-seater patient waiting chairs | 5 |
| 4 | Patient waiting couch for lying down | 2 |
| 5 | Desktop computer | 4 |
| 6 | Overhead cupboard | 3 |
| 7 | Printer/fax/photocopier | 1 |
| 8 | 32 inch LED TV Full HD with satellite dish connection for 5 years | 1 |
| 9 | UV drinking water purifier and water cooler | 1 |
| 10 | File storage cupboard, metallic, with sliding doors and internal lock. Size 1.8 x 0.9 x 0.45 m | 2 |
| 11 | Office table 3 | |
| 12 | Office Chair 6 | |
| 13 | Patient revolving stool 3 | |
| **GF 002** | **PATIENT TOILET – FEMALE** | |
| 1 | Indian style closet with flush, wash basin, mirror, soap holder, and hand-held shower heads | 1 each |
| **GF 003** | **PATIENT TOILET – MALE** | |
| 1 | Indian style closet with flush, wash basin, mirror, soap holder, and hand-held shower heads | 1 each |
| **GF 004** | **STAFF TOILET** | |
| 1 | Western style closet, urinal, wash basin, soap stand, mirror, tap, head shower, handheld shower, bucket, mug | 1 each |
| **GF 005** | **STAFF PANTRY** | |
| 1 | 10 seater wood dining table set with 10 chairs | 1 |
| 2 | Wash basin | 1 |
| 3 | UV water purifier and water cooler | 1 |
| 4 | Utensils (Water jugs – 2, Tupperware 1 litre water bottles – 10 number, cup and saucer set – 20 numbers, thermal flask- 1 litre 1 number, thermal flask 500 ml- 1 number, plates 10 numbers, water glasses 10 numbers) |  |
| 5 | Overhead cupboard | 2 |
| 6 | Refrigerator frost-free (165 litres) | 1 |
| **GF006** | **PHYSICIST & TECHNOLOGIST ROOM** | |
| 1 | Steel Almirah | 1 |
| 2 | Staff chair | 4 |
| 3 | Small Office table | 4 |
| 4 | Overhead wall-mounted cupboard | 4 |
| 5 | Revolving Chairs | 4 |
| 6 | Apron hanger | 2 |
| **GF 007** | **STUDENTS CUM LIBRARY ROOM** | |
| 1 | Study table | 10 |
| 2 | Study chair | 20 |
| 3 | Book shelf with doors | 2 |
| 4 | Overhead cupboard | 4 |
| 5 | Desktop computer | 1 |
| 6 | Apron Hook | 2 |
| 7 | Wi-fi router | 1 |
| 8 | 5 seater sofa | 1 |
| **GF 008** | **STORAGE AND NURSING STATION** | |
| 1 | Storage rack | 2 |
| 2 | Table | 1 |
| 3 | Chairs | 3 |
| 4 | Overhead cupboard | 2 |
| **GF 09** | **POST ADMINISTRATION WAITING AREA FOR GAMMA CAMERA** | |
| 1 | Waiting chair-3 seater | 3 |
| 2 | Wheel chair | 1 |
| 3 | Patient stretcher with cushion | 1 |
| **GF 010** | **ACTIVE TOILET AT GAMMA CAMERA WAITING ROOM** |  |
| 1 | Indian style closet with flush, wash basin, mirror, soap holder, hand-held shower heads, bucket and mug | 1 each |
| **GF011** | **DOSE ADMINISTRATION ROOM FOR GAMMA CAMERA** |  |
| 1 | Patient stretcher with cushion | 1 |
| 2 | Revolving stool with backrest | 1 |
| 3 | Open storage rack | 1 |
| 4 | Injection table | 1 |
| 5 | Injection trolley | 1 |
| 6 | Lead lined waste bin ( For SPECT tracers) | 1 |
| **GF012** | **HOT LAB/RADIO PHARMACY** | |
| 1 | Radiopharmacy hood with sliding leaded glass shield and HEPA Filter (Germfree Radiopharmacy hood or equivalent) | 2 |
| 2 | Table | 2 |
| 3 | Chair | 2 |
| 4 | Open Rack- 4 shelves | 4 |
| 5 | 40 Lead bricks and 8 lead corners for F-18 handling | 1 |
| 6 | 40 interlocking painted lead bricks and10painted Lead corners | 1 |
| 7 | Dose calibrator (one for PET and another for SPECT tracers) | 2 |
| 8 | 12” sized L-Bench with lead glass for 99mTc radio-pharmacy work | 1 |
| 9 | Shielded L bench with Lead glass for handling PET isotopes | 2 |
| 10 | Digital contamination monitor(Fluke) or equivalent | 2 |
| 11 | Lead lined dustbin for PET and SPECT | 4 |
| 12 | Closed rack | 2 |
| 13 | 300 litres 2-door frost-free refrigerator | 2 |
| 14 | Water bath shaker | 1 |
| 15 | Rotary Shaker | 1 |
| 16 | Centrifuge machine | 1 |
| 17 | Vortex mixer | 1 |
| 18 | Microwave oven | 1 |
| 19 | Water sink with elbow or foot operated taps | 2 |
| 20 | Lead canister for Molybdenum breakthrough test | 1 |
| 21 | Micropipette | 2 |
| 22 | Stainless steel syringe carriers having lead lining of minimum 4 mm thickness | 5 |
| 23 | Syringe carriers for PET radiopharmaceuticals (5 mm lead) | 5 |
| 24 | Tungsten shielded syringe holders (2 ml and 5 ml-2 each) | 2 each |
| 25 | Area zone monitor | 2 |
| 26 | Pocket dosimeter –Gamma & Beta(Digital) | 2 |
| 27 | Portable radiation Survey meter-Digital | 2 |
| 28 | Long handled Tongs & Forceps ( 5 each) | 5 each |
| **GF013** | **DOSE ADMINISTRATION ROOM FOR PET** | |
| 1 | Patient couch with foot step | 1 |
| 2 | Simple storage racks | 1 |
| 3 | Dressing Trolley | 1 |
| 4 | Injection chair | 1 |
| 5 | Injection Table | 1 |
| 6 | Lead lined waste bin ( For PET tracers) | 1 |
| **GF 014** | **ACTIVE TOILET AT PET/CT POST-INJECTION WAITING ROOM** |  |
| **1** | Indian style closet with flush, wash basin, mirror, soap holder, bucket mug and hand-held shower head | 1 each |
| **GF015** | **POST ADMINISTRATION WAITING AREA FOR PET-CT** | |
| 1 | Reclining chairs with foot, head and hands rest | 5 |
| 2 | Wheel chair | 1 |
| **GF016** | **DECONTAMINATION ROOM** | |
| 1 | Decontamination Kit, Shower, wash basin with elbow or foot operated tap, western style closet and flush | 1 |
| **GF 017** | **WASTE STORAGE** | |
| 1 | Overhead cupboard | 3 |
| 2 | Granite shelves 18’ depth along the wall |  |
| **GF018** | **PET-CT** | |
| 1 | PET-CT Scanner | 1 |
| 2 | 4D Compliant for Respiratory gating device for RT planning. | 1 |
| 3 | Germanium 68 pin source for the calibration of the system to be replaced as and when required for the period of warranty and CAMC period |  |
| 4 | **CT Contrast Pressure injector:** Digitally controlled CT injection system (latest model – dual syringe) with Pedestal head mount, remote monitor and VRC, syringe heater. | 1 |
| 5 | Overhead cupboard | 2 |
| 6 | Almirah | 2 |
| 7 | Foot step – Double | 1 |
| 8 | Dressing trolley | 1 |
| **GF019** | **CONSOLE ROOM - Common for PET and Gamma Camera** | |
| 1 | Computer desk | 2 |
| 2 | Staff chair | 4 |
| 3 | LCD film viewer | 2 |
| 4 | Overhead cupboard | 2 |
| 5 | Laser color printer (medical image quality) | 1 |
| 6 | Open wooden 4 rack shelf | 1 |
| 7 | Patient Address system to call patients for scan (3 microphones, 3 sets of speakers and required audio mixer / amplifier) | 1 |
| 9 | CCTV and two way microphone and speaker system (one CCTV each in common waiting hall, post administration waiting area for gamma camera, and post-administration waiting area for PET) and monitoring screen in console room | 1 |
| 10 | Automatic DVD maker | 1 |
| **GF020** | **UPS** |  |
| 1 | online UPS with maintenance-free batteries for supporting Gamma Camera and PET/CT with 30 min back up time | 1 |
| **GF021** | **GAMMA CAMERA ROOM** | |
| 1 | Gamma camera | 1 |
| 2 | Phantoms: CT phantom for CT QC, Jaszezak phantom, Linear bar phantom,Co-57 flood source phantom | 1each |
| 3 | Defibrillator | 1 |
| 4 | Vital sign monitor | 1 |
| 5 | Foot step – Double | 1 |
| 6 | Overhead cupboard | 2 |
| 7 | Almira | 1 |
| 8 | Dressing Trolley | 1 |
| 9 | Lead lined waste bin ( for SPECT ) | 2 |
| **GF 022** | **REVIEW CUM SEMINAR ROOM** | |
| 1 | Auditorium chairs, with foldable seat | 40 |
| 2 | Revolving chairs | 10 |
| 3 | Book shelf | 2 |
| 4 | Open storage rack | 2 |
| 5 | LED projector-Ceiling mounted | 1 |
| 6 | 60 inch true LED monitor, Full HD | 1 |
| 7 | Superior quality wireless microphone with amplifier and superior quality speakers | 1 |
| 8 | Projection screen | 1 |
| 9 | White board – dual foldable | 1 |
| 10 | Overhead cupboard | 2 |
| 11 | Desktop computers - reporting units | 4 |
| 12 | Sound proof movable partition |  |
| 13 | Sound-Proof walls on all four sides |  |
| **GF023-26** | **PHYSICIAN ROOMS for 4 members** | |
| 1 | Almirah | 4 |
| 2 | Office chair | 4 |
| 3 | Office table | 4 |
| 4 | Overhead cupboard | 4 |
| 5 | Visitors chair | 8 |
| 6 | Apron hanger | 4 |
| 7 | 3 seater sofa | 4 |
| 8 | Glass top tea table | 4 |
| **GF027** | **BOARD ROOM** |  |
| 1 | Board room / conference table (1.5 x 4 M) | 1 |
| 2 | Conference chairs | 12 |
| 3 | Wooden book shelf | 2 |
| 4 | 50 inch True LED monitor | 1 |
| **GF028** | **BACK OFFICE** | |
| 1 | Almira | 1 |
| 2 | Office chair | 1 |
| 3 | Office table | 1 |
| 4 | Overhead cupboard | 3 |
| 5 | File cabinet | 2 |
| 6 | Desktop computer | 1 |
| 8 | Visitor Chairs | 2 |
| **GF029** | **HOD ROOM** |  |
| 1 | Almirah | 1 |
| 2 | Executive chair | 1 |
| 3 | Executive table | 1 |
| 4 | Overhead cupboard | 2 |
| 5 | Visitors chair | 2 |
| 7 | Apron hanger | 1 |
| 8 | 3+2 seater sofa and tea table | 1 each |
| **GF030** | **AHU** |  |

**All other terms and condition remains unaltered.**