



Haydom Lutheran Hospital

ELCT Mbulu Diocese

14/01/2019

REQUEST FOR EXPRESSION OF INTEREST

Haydom Lutheran Hospital (HLH) started in 1955 and since then slowly developed to be one of the largest and most comprehensive hospital in Tanzania. The hospital is located in Manyara Region about 300km South West from Arusha City. Apart from provision of health care services to patients around, the hospital also contributes to the development of the surrounding community. Its success is mostly due to the motto of the hospital "To the Praise of his Glory" where all people, staff, local partners or foreign donors and friends, join for this one purpose. Currently, the hospital has more than 650 employees and is serving more than 100,000 outpatients and around 12,000 inpatients annually.

The principal activity of HLH is the provision of medical services to residents in its catchment area and other neighboring communities. The hospital serves Mbulu, Hanang, Singida, Meatu, Iramba, and Babati districts.

In this Financial year 2019, Hospital is in the process of procuring medical equipment and hereby invites the eligible Company to show the Expression of Interest for equipment listed below.

1. CT-Scan
2. Digital X-Ray
3. Oxygen Plant
4. Incinerator

The Company shall submit the copies of the following Qualification Requirements;-

5. Current Business license
6. Certificate of business Registration
7. Certificate of regulatory bodies e.g. TFDA
8. TIN Registration certificate

All Expression of Interest should be sent via e-mail tender@haydom.co.tz



- Dead-line for submission of Expression of Interest is Monday 28 January 2019 at 10:00 hour's local Time.
- Late submission of Expression of Interest shall not be accepted for Evaluation irrespective of the circumstances.

TENDER COMMITTEE CHAIRMAN

Haydon Lutheran Hospital

P O Box 9000,

MANYARA

Tel; +255 787 325 094

Email: tender@haydom.co.tz

Website: <https://haydom.or.tz>



Haydom Lutheran Hospital
ELCT Mbulu Diocese

Requirements and specifications for CT Scan

Client	:	Haydom Lutheran Hospital
Procurement procedure	:	Call of tender
The request includes	:	CT Scan– Multislice (32 slices)
Case number	:	19/0100

Provider <i>(To be filled out by the provider)</i>	:	
Address <i>(To be filled out by the provider)</i>	:	
Contact person <i>(To be filled out by the provider)</i>	:	
Phone number <i>(To be filled out by the provider)</i>	:	
E-mail address <i>(To be filled out by the provider)</i>	:	

- 1. Introduction**
- 2. Services and products that should be included in the offer**
- 3. Applications**
- 4. Specific requirement to the provider**
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 - 5.2 *X-ray tube, dose, filtering, detector and image quality*
 - 5.3 *Additional equipment and additional functionality.*
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 - 5.5 *Service, maintenance and technical support*
 - 5.6 *Training program*

1. Introduction

Haydom Lutheran Hospital (HLH) started in 1955 and since then slowly developed to be one of the largest and most comprehensive hospital in Tanzania. The hospital is located in Manyara Region about 300km South West from Arusha City. Apart from provision of health care services to patients around, the hospital also contributes to the development of the surrounding community. Its success is mostly due to the motto of the hospital “To the Praise of his Glory” where all people, staff, local partners or foreign donors and friends, join for this one purpose. Currently, the hospital has more than 650 employees and is serving more than 100,000 outpatients and around 12,000 inpatients annually.

The average number of clients using CT-Scan services is around 1,000 per year. The Hospital has been using second hand CT- Scan since 2005 to 2017, which went out of function because of technical trouble and need of repair. Since then many clients have been facing a challenge by travelling far to get this service from other facilities of which some cannot afford referral costs. With this need, we therefore, request to receive offers for equipment that covers what is required in this document and intended use.

Prices are to be in the document for prices.

2. Service or product that should be included in the offer

Offers requested according to the following:

- CT – **Multi slice** according to requirements in this document.
- Placement of new CT will be at the x- ray department (existing CT-room).

3. Application

➤ The equipment should in use for standard CT - examinations of children (pediatric) and adults as follows:

- Lung imaging
- Abdominal, Pelvic and Whole-body imaging
- Head imaging
- Musculoskeletal imaging
- Dental imaging

The functionality of the CT must be suitable for elective, acute and inpatients (children and adult).

The offer must include necessary and recommended functionality, as well as necessary and recommended peripherals within defined application.

4. Specific requirement for the provider

Provider answer all, and the answers should be according to the structure in this document.

If the Provider finds that there are issues that are incorrect or misleading, the Provider is free to point this out in clarifying questions within the deadline.

5. Mandatory and conditional requirements

Functionality and quality		Providers answer
5.1 In general for CT – Multi slice		Description of the solution:
5.1.1	<p>The CT should be according to the intended use given above.</p> <p>The system should have functionality for x-ray examinations of :</p> <ul style="list-style-type: none"> • Lung imaging • Abdominal, Pelvic and Whole-body imaging • Head imaging • Musculoskeletal imaging • Dental imaging 	
5.1.2	The CT should cover standard examinations and have standard reconstruction software.	
5.1.3	Multi slice 32 slices.	
5.1.4	The CT system should have automatic dose regulation and the possibility for controlling the dose will be emphasized	
5.1.5	The CT system should have high transfer speed to the workstations, and high storage capacity.	
5.1.6	Bolus tracking	
5.1.7	The equipment should be easy to use and contain easy solutions for preprogramming and manual parameter selection.	
5.1.8	Work station / Doctors console	
5.1.9	<p>User manuals in English should be part of the delivery.</p> <p>Preferably in both short version and a complete comprehensive user manual</p>	
5.1.10	The user manual should be in both paper version and electronic version and be achievable from the dealer company at any time during the equipment lifetime.	

5.1.11	Describe time of deliverance in weeks from signed contract.	
5.1.12	Describe installation time in days.	
5.1.13	<p>All costs for transport and installation should be part of the delivery and described in the offer.</p> <p>The provider should verify that the transport of equipment to the hospital, into the room facilities for installation, and that the room facilities are in good quality.</p> <p>Approved through an inspection from the company about two week before the equipment delivery.</p>	
5.1.14	<p>Pre-inspection of the equipment.</p> <p>The supplier should commit/allow that staff from the radiology department and technical department from the hospital should make visitation at reference installation to inspect and test the equipment before concluding the tender.</p> <p>The costs must be covered by the supplier.</p>	
5.1.15	References for where requested equipment is in use.	
5.2 X-ray tube, dose, filtering, detector and image quality		
5.2.1	The x-ray generator should be adapted to the intensions. Describe type and maximum power in kW.	
5.2.2	Describe the X-ray tube Heat Units	
5.2.3	The system should have low dose program for examinations of children.	
5.2.4	Describe storage capacity (number of images) with maximum image solution.	
5.2.5	Describe the field of view.	
5.2.6	Describe image storage in GB.	
5.2.7	Describe image matrix.	

5.2.8	Describe the detector system.	
5.2.9	The system should be easy in use for both manual and automatically protocols. It should be possible to change the protocols during patient examination.	
5.3 Additional equipment and additional functionality.		
5.3.1	Standard accessories should follow the deliverance	
5.3.2	Contrast injector should be a part of the offer, in floor stand and ceiling versions.	
5.3.3	QA test phantoms as for performing quality checks according to regulations for dose and x-ray beam protection.	
5.4 Computer, Network, Integration, Image archive, Work station, Virus protection, Technology		
5.4.1	<p>The CT system should be possible to connect to any X- ray information system, any picture archive and communication system (PACS) and any Hospital Patient Information System (eHMS).</p> <p>Describe if it is possible to connect Hospital Patient Information System (eHMS) through broker for image sequences generated on the CT system.</p> <p>The PACS solution at HLH today is from SPECTRA and eHMS is from GPTIG</p>	
5.4.2	Describe which eHMS and PACS systems the CT system might integrate.	
5.4.3	The CT system should have functionality for exporting images and necessary information about the examination to PACS and give the same diagnostic quality as on the CT system.	
5.4.4	Describe which kind of antivirus program is used.	
5.4.5	Describe which kind of user platform that are used.	
5.4.6	Describe eventually necessary solution for local power back up through UPS, and the power capacity.	

5.4.7	<p>It is requested that the provider should be responsible for:</p> <ul style="list-style-type: none"> • CT integration to PACS (and EPJ). • Offers should include a guarantee for integration and functionality. • If the deliverance is depending on subcontractors for solving the responsibility mentioned this should be done without involving the Hospital (HLH). 	
5.4.8	<p>Describe any reference installations integrated to PACS and EPJ systems in use at other hospitals in Tanzania, or other African countries.</p>	
5.4.9	<p>The hospital is using antivirus program Kaspersky.</p>	

Service, maintenance and technical support

5.5 Service og Maintenance

5.5.1	<p>Maintenance contract</p> <p>The offer should describe the solution for yearly full maintenance contract including acute service, spare parts, PM - Kits, travelling costs, accommodation costs, as well as application follow up. <i>(Cf. Attached priceform).</i></p>	
5.5.2	<p>Describe the service organization, necessary technical competence, if there is a technical duty solution, and how the provider will perform service and maintenance.</p>	
5.5.3	<p>Describe if updates, like improvement of CT functionality is included.</p>	
5.5.4	<p>Describe if upgrades, like new CT functionalities, are included in maintenance contract.</p>	
5.5.5	<p>Technical phone support should be included free of charge, and be available through the life cycle of the equipment. This should be free of charge and included, and not be depending on maintenance contract between the two parties.</p>	

5.5.6	<p>The provider should guarantee that software, password and service key for performing technical service and configuration on the system is included in the deliverance and free for use from the hospital technicians after technical training and certification.</p> <p>If this is limited to time for expiry it should be renewed free of costs during the life cycle for the equipment.</p>	
5.5.7	<p>Technical (service) manuals including technical descriptions, drawings, technical procedures for calibration and preventive maintenance should follow the deliverance.</p> <p>The documents should be in pdf- format.</p> <p>The provider is committed to update the documents free of charge during equipment life cycle.</p> <p>All documentations should be in English language.</p>	
5.5.8	<p>Special tools needed for performing service on the CT system should be part of the deliverance.</p> <p>If not included the offer tender should give information about costs for needed special tools in the price form.</p>	
5.5.9	<p>Copies of installed software on the system should be part of the deliverance and available for certified technical staff.</p>	
5.5.10	<p>Describe period of available spare parts in years (Standard international requirement is minimum 10 years).</p>	
5.5.11	<p>Describe if the equipment are under Directive on Medical Devices, MDD</p>	
5.5.12	<p>Documentation of Conformity statement.</p>	

Application and training program

5.6 Application and training

5.6.1	<p>User training</p> <p>The offer should include complete user training for all staff that will be operating the CT system.</p> <p>The training should include all equipment delivered.</p> <p>Describe the schedule for application, and user follow up, included in the deliverance.</p>	
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5.6.2	Technical training – SMT Training of technical hospital staff, at least three (3) persons should be included in the deliverance. The training should preferably be outside the hospital, and performed within the warranty time. It should give the staff enough knowledge to perform service and maintenance on the CT system. The provider is responsible for initiating and bringing up a plan for performing the training. On request from the hospital (HLH) the provider commits at any time to give training of technical personnel for maintaining the level of knowledge.	
5.6.3	Describe what kind of training will be included during installation as a pre training of technical staff.	



Haydom Lutheran Hospital
ELCT Mbulu Diocese

CT Scan - Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tender
The tender shall include:	CT - Multislice /32 Slices
Case number:	19/0100

Provider <i>(To be filled out by the provider) :</i>		Contact person <i>(To be filled out by the provider) :</i>	
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NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

1. Procurement included application and training *(Cf. Requirements)*

Complete deliverance according to the requirements, incl. application and training.	Price	Of which user training	Of which technical training	Estimated lifetime, spare part and technical support.	Comments

2. Additional equipment and functionality *(Cf. Requirements if it's not included in section 1. above)*

Description/type/model	Price	Incl. In price given in section 1. (Yes/No)	Comments
Quality test Phantom			

3. Maintenance contract / Hourly rates

Description	Price	Yearly runtime guarante (%)	Hourly travelling rates	Hourly work rates (Service)	Comments
Total contract					

4. Remote - service *(Yearly costs if this might be bought separate, or if it's not included in the offer of maintenance contract)*

Dscription	Price	Incl. In the deliverance (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments
Establishing rates				
Yearly rates				

5. Training *(Specify training costs)*

Description	Price	Of which course fee	Of which travelling costs	Of which accommodation costs	Of which diet costs	Comments
Users						
SMT						
Physician						

6. Special tools for maintenance *(If relevant)*

Description	Price	Incl. In delivery (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments

7. Spare parts *(Spare parts that is expected to be changed during the equipments lifetime (cf. the manufactureres maintenance description, evt. statistics)*

Description	Price	Incl. In the maintenance contract (Yes/No)	Comments
X-ray tube			
Detector			
Monitor			

8. Updates *(Expected or palnned updates as improvements of existing functionality, HW evt. SW, yeraly, monthly, etc.)*

Description	Price	Incl. In the deliverance (Yes/No)	Incl. In the maintenance contract (Yes/No)	Comments

9. Upgrades *(Expected, planned or recomended to schive new and better functionality, HW evt. SW, yearly, monthly, etc.)*

Description	Price	Incl. In the deliverance (Yes/No)	Incl. In the maintenance contract (Yes/No)	Comments

10. Yearly running costs *(If known as cost for normal functionality)*

Description	Price	Comments

11. Comsumables *(If known as costs for normal functionality)*

Description	Price	Comments

12 Warrantv

Description	Price	Incl. (Yes/No)	Comments
1 year			
2 years			
5 years			



Haydom Lutheran Hospital
ELCT Mbulu Diocese

(f)

Requirements and specifications for Digital X-ray

Client	: Haydom Lutheran Hospital
Competition	: Call of tender
The tender shall include	: Digital X-ray radiographic and fluoroscopic system, Multifunctional and multipurpose universal laboratory
Case number	: 19/0200

Provider <i>(To be filled out by the provider)</i>	:
Address <i>(To be filled out by the provider)</i>	:
Contact person <i>(To be filled out by the provider)</i>	:
Phone number <i>(To be filled out by the provider)</i>	:
E-mail address <i>(To be filled out by the provider)</i>	:

1. **Introduction**
2. **Services and products that should be included in the offer**
3. **Applications**
4. **Specific requirement to the provider**
5. **Mandatory and conditional requirements**
 - 5.1 *Digital X-ray radiographic and fluoroscopic system*
 - 5.2 *X-ray tube, dose, filtering, detector and image quality*
 - 5.3 *Additional equipment and additional functionality.*
 - 5.4 *Computer, Network, Integration, Image archive, Work station, Virus protection, Technology*
 - 5.5 *Service, maintenance and technical support*
 - 5.6 *Training program*

1. Introduction

Haydom Lutheran Hospital (HLH) started in 1955 and since then slowly developed to be one of the largest and most comprehensive hospital in Tanzania. The hospital is located in Manyara Region about 300km South West from Arusha City. Apart from provision of health care services to patients around, the hospital also contributes to the development of the surrounding community. Its success is mostly due to the motto of the hospital “To the Praise of his Glory” where all people, staff, local partners or foreign donors and friends, join for this one purpose. Currently, the hospital has more than 650 employees and is serving more than 100,000 outpatients and around 12,000 inpatients annually.

The average number of clients using CT-Scan services is around 1,000 per year. The Hospital has been using second hand CT- Scan since 2005 to 2017, which went out of function because of technical trouble and need of repair. Since then many clients have been facing a challenge by travelling far to get this service from other facilities of which some cannot afford referral costs. With this need, we therefore, request to receive offers for equipment that covers what is required in this document and intended use.

Prices are to be in the document for prices.

2 Service or product that should be included in the offer

Offers requested according to the following:

- Digital X-ray radiography and fluoroscopy –Multipurpose solutions according to requirements in this document.
Multifunctional X-Ray system or solution with separate fluoroscopy stand and wall bucky system.
- Placement of the x- ray equipment should be within the space (rooms) at the x- ray department.

3. Application

➤ The equipment should be in use for fluoroscopic examinations as well as radiography examinations on children (pediatric) and adults, as follows:

- Functionality for GIT (Gastro Intestinal System) – examinations
- Urological examinations
- Respiratory examinations
- ERCP
- Thoracic and all kinds of skeleton examinations
- HSG
- Venography
- Scoliosis and bone length measurement
- Tomography

The functionality of the equipment must be suitable for elective, acute and inpatients (children and adult).

The offer shall include necessary and recommended functionality, as well as necessary and recommended peripherals within defined application.

4. Specific requirement for the provider

Provider answer all, and the answers should be according to the structure in this document.

If the Provider finds that there are issues that are incorrect or misleading, the Provider is free to point this out in clarifying questions within the deadline.

5. Mandatory and conditional requirements		Providers answer
Functionality and quality		Description of solution:
5.1 In general for the equipment		
5.1.1	<p>The equipment should be according to description for intended use given above, and consist of a digital radiographic system and a remote fluoroscopic system, or a combination of these two functions.</p> <p>The system should have functionality for x-ray exposures of patients in bed or trolley/stretchers.</p> <p>One option might be a wall stand bucky system in combination with x-ray tube floor stand or ceiling mounted x-ray stand.</p> <p>Another option might be a wall stand bucky system in combination with a fluoroscopic floor stand system where the x-ray tube is rotatable.</p> <p>A third option might be a universal system where all necessary functionalities are integrated in the remote controlled stand.</p>	
5.1.2	<p>The equipment should have functionality for a wide range of whole body examinations, both in vertical and horizontal position, longitudinally and transverse, as well as to be positioned 90° vertical.</p> <p>The collimation displayed as field simulation without use of field light or x-ray beams.</p>	
5.1.3	<p>The system might have a satellite control desk close to the equipment/stand. Preferably remote controlled.</p>	
5.1.4	<p>The fluoroscopic table should have a foot switch solution for fluoroscopy and exposure close to the stand.</p>	

5.1.5	The system should have image recording with run function (serial images) in different speed.	
5.1.6	The system should have at least three (3) different image enlargements.	
5.1.7	The system should include Video grab functionality (image grabbing from real time fluoroscopy).	
5.1.8	The system should have possibility for low dose images and high speed exposure.	
5.1.9	The system must have the possibility for annotations.	
5.1.10	The system should have a solution of two (2) monitors, or a single monitor solution with split image, in the examination room.	
5.1.11	The control room monitor system must show the following: <ul style="list-style-type: none"> - Fluoroscopic live picture - Reference images - Stand positions - Describe if the system is having a solution with one monitor with Split image, or two monitors (multi monitor solution). 	
5.1.12	The equipment should be easy to use and contain easy solutions for preprogramming and manual parameter selection.	
5.1.13	User manuals in English should be part of the delivery. Preferably in both short version and a complete comprehensive user manual	
5.1.14	The user manual should be in both paper version and electronic version and be achievable from the dealer company at any time during the equipment lifetime.	
5.1.15	Describe time of deliverance in weeks from signed contract.	
5.1.16	Describe installation time in days.	
5.1.17	Describe time of deliverance in weeks from signed contract.	

5.1.18	Describe installation time in days.	
5.1.19	All costs for transport and installation should be part of the delivery and described in the offer. The provider should verify that the transport of equipment to the hospital, into the room facilities for installation, and that the room facilities are in good quality. Approved through an inspection from the company about two week before the equipment delivery.	
5.1.20	Pre-inspection of the equipment. The supplier should commit/allow that staff from the radiology department and technical department from the hospital should make visitation at reference installation to inspect and test the equipment before concluding the tender. The costs must be covered by the supplier.	
5.1.21	References for where requested equipment is in use.	
5.2 X-ray generator, x-ray tube, dose, filtering, detector and image quality		
5.2.1	The x-ray generator should be adapted to the intensions. Describe type and maximum power in kW.	
5.2.2	The fluoroscopy table should have image quality good enough for taking bone structure images as well as diagnostic quality for images of children, obese and rheumatic patients.	
5.2.3	The system should have low dose program for exposures of children.	
5.2.4	Advanced pulsed fluoroscopy to achieve dose reduction.	
5.2.5	Cu filtering and several grades of filtering.	
5.3 X-Ray stand		
5.3.1	Motorized table for raising and lowering, tilt both ways in longitudinal direction (+/- 90°), digital radiography, additionally control desk on moveable floor stand, preferably wireless.	

5.3.2	The examination table should be possible to raise and lower to achieve a suitable working height for the operator.	
5.3.3	The examination table should be possible to raise and lower to simplify movement of the patient from bed, or wheel chair, to the examination table.	
5.3.4	The multipurpose table/stand should have possibility for Scoliosis and bone length measurement.	
5.3.5	The multipurpose table/stand should have the opportunity of tomography	
5.3.6	Maximum patient load stated.	
5.3.7	Describe the safety solutions for avoiding collision with fixed installations in the room as well as safety for the patient and staff.	
5.4 Image system, image digital flat panel detector and image archive.		
5.4.1	The digital flat panel detector should be rectangular or square.	
5.4.2	The system should have the opportunity for a separate wireless flat panel detector (exposures of patients in bed)	
5.4.3	Describe image store capacity (number of images) with maximum image resolution on the system.	
5.4.4	Describe image storage capacity in GB.	
5.4.5	Describe the digital flat panel detector formats, as well as the nominal and reel field diameter.	
5.4.6	Describe the digital flat panel detectors technical data.	
5.4.7	Image matrix should be minimum 1024x1024 pixels.	
5.4.8	Describe width and depth (number of pixels and grey scale).	
5.4.8	Describe the technical data of the grid.	

5.4.9	High geometric resolution and geometric “fill factor” is important.	
5.5 Workflow and user interface		
5.5.1	Describe if integrated predefined protocols starts automatically.	
5.5.2	A user easy system for picking up both manually and automatically protocols, with the possibility of changing them through the examination.	
5.6 Additional equipment and additional functionality.		
5.6.1	Standard accessories should follow the deliverance	
5.6.2	QA test phantoms as for performing quality checks according to regulations for dose and x-ray beam protection.	
5.6.3	Standard accessories should follow the deliverance <ul style="list-style-type: none"> •Grip protection strip, head end on the table top •Hand grip strip on table top •Hand grip, lateral on the table top •Shoulder support, one pair on the table top •Footrest on the tabletop, easy attaching and removing, able to sit on and move up and down on the tabletop. •Foot switch for fluoroscopy and exposure •Protective sheet for fluid spills •Wall holder for grids 	
5.6.4	Image stitching of chosen single images. Should be able to transfer to PACS.	
5.6.5	Lead protection possible to attach to the tabletop.	
5.6.6	Foot rest for gynecological examinations.	
5.6.7	Describe if the remote control unit (box) is able to fix to tabletop rail, or if this is having another solution.	

5.6.8	Should be able to make images with and without grid.	
5.6.9	Describe if a mobile, floor stand, x-ray beam protection might be part of the equipment, as well as price information for this item.	
5.7 Computer, Network, Integration, Image archiving, Work stations, Virus protection, Technology		
5.7.1	<p>The X-Ray system should be possible to connect to any X- ray information system, any picture archive and communication system (PACS) and any Hospital Patient Information System (eHMS).</p> <p>Describe if it is possible to connect Hospital Patient Information System (eHMS) through broker for image sequences generated on the CT system.</p> <p>The PACS solution at HLH today is from SPECTRA and eHMS is from GPTIG</p>	
5.7.2	Describe which eHMS and PACS systems the X-Ray system might integrate.	
5.7.3	The X-Ray system should have functionality for exporting image sequences and necessary information about the examination to PACS and have the same diagnostic quality as on the modality.	
5.7.4	Describe which kind of antivirus program is used.	
5.7.5	Describe which kind of user platform that are used.	
5.7.6	Describe eventually necessary solution for local power back up through UPS, and the power capacity.	
5.7.7	<p>It is requested that the provider should be responsible for:</p> <ul style="list-style-type: none"> • X-Ray integration to PACS (and EPJ). • Offers should include a guarantee for integration and functionality. • If the deliverance is depending on subcontractors for solving the responsibility mentioned this should be done without involving the Hospital (HLH). 	
5.7.8	Describe any reference installations integrated to PACS and EPJ systems in use in other places in Tanzania, or other African country.	

5.7.9	The hospital is using antivirus program Kaspersky	
Technical functionality / technical conditions / technical support		
5.8 Service og Maintenance		
5.8.1	<p>Maintenance contract</p> <p>The offer should describe the solution for yearly full maintenance contract including acute service, spare parts, PM - Kits, travelling costs, accommodation costs, as well as application follow up.</p> <p><i>(Cf. Attached priceform).</i></p>	
5.8.2	Describe the service organization, necessary technical competence, if there is a technical duty solution, and how the company will perform service and maintenance.	
5.8.3	Describe if update costs is included in the maintenance contract.	
5.8.4	<p>Technical phone support should be included free of charge, and be available through the life cycle of the equipment.</p> <p>This should be free of charge and included, and not be depending on maintenance contract between the two parties.</p>	
5.8.5	<p>The provider should guarantee that software, password and service key for performing technical service and configuration on the system is included in the deliverance and free for use from the hospital technicians after technical training and certification.</p> <p>If this is limited to time for expiry it should be renewed free of costs during the life cycle for the equipment.</p>	
5.8.6	<p>Technical (service) manuals including technical descriptions, drawings, technical procedures for calibration and preventive maintenance should follow the deliverance.</p> <p>The documents should be in pdf- format.</p> <p>The company is committed to update the documents free of charge during equipment lifetime.</p> <p>All documentations should be in English language.</p>	

5.8.7	Special tools needed for performing service on the CT system should be part of the deliverance. If not included the offer tender should give information about costs for needed special tools in the price form.	
5.8.8	Copies of installed software on the system should be part of the deliverance and available for certified technical staff.	
5.8.9	Describe period of available spare parts in years (Standard international requirement is 10 years).	
5.8.10	Describe if the equipment are under Directive on Medical Devices, MDD	
5.8.11	Documentation of Conformity statement.	

Application and training program

5.9 Application and training

5.9.1	<p>User training</p> <p>The offer should include complete user training for all staff that will be operating the CT system.</p> <p>The training should include all equipment delivered.</p> <p>Describe the schedule for application, and user follow up, included in the deliverance.</p>	
5.9.2	<p>Technical training – SMT</p> <p>Training of technical hospital staff, at least three (3) persons should be included in the deliverance.</p> <p>The training should preferably be outside the hospital, within the warranty time and give the staff enough knowledge to perform service and maintenance on the x-ray system.</p> <p>The company is responsible for initiating and bringing up a plan for performing the training.</p> <p>On request from the hospital (HLH) the company commits at any time to give provided training of technical personnel for maintaining the level of knowledge.</p>	

5.9.3

Describe what kind of training will be included during installation as a pre training of technical staff.





Haydom Lutheran Hospital
ELCT Mbulu Diocese

Digital X-Ray Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tenders
The tender shall include:	Digital X-ray radiographic and fluoroscopic system, Multifunctional and multipurpose universal laboratory
Case number:	19/0200

Provider <i>(To be filled out by the provider) :</i>	
Provider <i>(To be filled out by the provider) :</i>	Contact person <i>(To be completed by the provider) :</i>

NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

1. Procurement included application and training *(Cf. Requirements)*

Complete deliverance according to the requirements, incl. application and training.	Price	Of which user training	Of which technical training	Estimated lifetime, sparepart and technical support	Comments

2. Additional equipment and functionality *(Cf. Requirements if it's not included in section 1. above)*

Description	Price	Incl. In price given in section 1. (Yes/No)
Quality test Phantom		

3. Maintenance yearly contract / Hourly rates

Description	Price	Yearly runtime guarantee (%)	Hourly travelling rates	Hourly work rates (Service)	Comments
Total contract					

4. Remote - service *(Yearly costs if this might be bought separate, or if it's not included in the offer of maintenance contract)*

Description	Price	Incl. In the deliverance (Yes/No)	Incl. In maintenance contract (Yes/No)
Establishing rates			
Yearly rates			

5. Training *(Specify training costs)*

Digital X-Ray Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tenders
The tender shall include:	Digital X-ray radiographic and fluoroscopic system, Multifunctional and multipurpose universal laboratory
Case number:	19/0200

Provider <i>(To be filled out by the provider) :</i>	
Provider <i>(To be filled out by the provider) :</i>	Contact person <i>(To be completed by the provider) :</i>

NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

	Price	Of which course fee	Of which travelling costs	Of which accomodation costs	Of which diet	Comments
Users						
SMT						
Physician						

6. Special tools for maintenance *(If relevant)*

Description	Price	Incl. In delivery (Yes/No)	Incl. In maintenance contract (Yes/No)	

7. Spare parts *(Spare parts that is expected to be changed during the equipments lifetime (cf. the manufactureres maintenance description, evt. statistics)*

Description	Price	Incl. In the maintenance contract (Yes/No)	Comments
X-Ray tube			
Detector			
Monitor			

8. Updates *(Expected or palnned updates as improvements of existing functionality, HW evt. SW, yeraly, monthly, etc.)*

Description	Price	Incl. In the deliverance (Yes/No)	Incl. In the maintenance contract (Yes/No)	Comments

9. Upgrades *(Expected, planned or recomended to schive new and better functionality, HW evt. SW, yearly, monthly, etc.)*

Description	Price	Incl. In the deliverance (Yes/No)	Incl. In the maintenance contract (Yes/No)	

Digital X-Ray Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tenders
The tender shall include:	Digital X-ray radiographic and fluoroscopic system, Multifunctional and multipurpose universal laboratory
Case number:	19/0200

Provider <i>(To be filled out by the provider) :</i>	
Provider <i>(To be filled out by the provider) :</i>	Contact person <i>(To be completed by the provider) :</i>

NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

10. Yearly running costs *(If known as cost for normal functionality)*

Description	Price	Comments

11. Consumables *(If known as costs for normal functionality)*

Description	Price	Comments

12. Warranty

Description	Price	Incl. (Yes/No)	Comments
1 year			
2 years			
3 years			



Haydom Lutheran Hospital
ELCT Mbulu Diocese

Requirements and specifications

Client	: Haydom Lutheran Hospital
Competition	: Call of tender
The tender shall include	: Medical Waste Hospital Incinerator
Case number	: 19/0300

Provider <i>(To be filled out by the provider)</i>	:
Address <i>(To be filled out by the provider)</i>	:
Contact person <i>(To be filled out by the provider)</i>	:
Phone number <i>(To be filled out by the provider)</i>	:
E-mail address <i>(To be filled out by the provider)</i>	:

1. **Introduction**
2. **Services and products that should be included in the offer**
3. **Applications**
4. **Specific requirement to the provider**
5. **Mandatory and conditional requirements**

1. Introduction

Haydom Lutheran Hospital (HLH) started in 1955 and since then slowly developed to be one of the largest and most comprehensive hospital in Tanzania. The hospital is located in Manyara Region about 300km South West from Arusha City. Apart from provision of health care services to patients around, the hospital also contributes to the development of the surrounding community. Its success is mostly due to the motto of the hospital “To the Praise of his Glory” where all people, staff, local partners or foreign donors and friends, join for this one purpose. Currently, the hospital has more than 650 employees and is serving more than 100,000 outpatients and around 12,000 inpatients annually.

The average number of clients using CT-Scan services is around 1,000 per year. The Hospital has been using second hand CT- Scan since 2005 to 2017, which went out of function because of technical trouble and need of repair. Since then many clients have been facing a challenge by travelling far to get this service from other facilities of which some cannot afford referral costs. With this need, we therefore, request to receive offers for equipment that covers what is required in this document and intended use.

Prices are to be in the document for prices.

2. Service or product that should be included in the offer

Offers requested according to the following:

- Medical Waste Hospital Incinerator according to requirements in this document.
- Placement of Hospital Incinerator for burning hospital waste within identified space in the hospital

3. Application

- The equipment should be in use for burning hospital waste.

The offer shall include necessary and recommended functionality, as well as necessary and recommended peripherals within defined application.

4. Specific requirements for the provider

Provider should answer all, and the answers should be according to the structure in this document.

If the Provider find that there are issues not correct or misleading, the Provider is free to point this out in clarifying questions within the deadline.

5. Functionality and quality		Providers answer
Mandatory and conditional requirements		Description of solution:
5.1	Distance or location from other buildings	
5.2	Temperature	
5.3	Capacity (kg/hr)	
5.4	Burning Efficiency	
5.5	Noise	
5.6	Power (electric/diesel)	
5.7	Chamber (single/dual chamber)	
5.8	Body construction	
5.9	Size (M ³)	
5.10	Safety Alarm	
5.11	Emergency vent	
5.12	Monitoring device	
5.13	Air Pollution Control Device	
5.14	Certifications	
5.15	Warranty	
5.16	Experience with other African Hospitals	

5.17	<p>User training</p> <p>The offer should include complete user training for all staff that will be operating the incinerator.</p>	
5.18	<p>Maintenance (on site/remote)</p> <p>Technical phone support should be included free of charge, and be available through the life cycle of the equipment.</p> <p>This should be free of charge and included, and not be depending on maintenance contract between the two parties</p>	
5.19	<p>Description of technical solution</p> <ul style="list-style-type: none"> - Attached Product information folder - Attached Data sheet 	
5.20	<p>All costs for transport and installation should be part of the delivery and described in the offer.</p> <p>The provider should verify that the transport of equipment to the hospital, into the room facilities for installation, and that the room facilities are in good quality.</p> <p>Approved through an inspection from the company about two week before the equipment delivery.</p>	
5.21	<p>Pre-inspection of the equipment.</p> <p>The supplier should commit/allow that staff from the radiology department and technical department from the hospital should make visitation at reference installation to inspect and test the equipment before concluding the tender.</p> <p>The costs must be covered by the supplier.</p>	
5.22	<p>References for where requested equipment is in use.</p>	



Haydom Lutheran Hospital
ELCT Mbulu Diocese

Incinerator - Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tender
The tender shall include:	Medical Waste Hospital Incinerator
Case number:	19/0300

Provider <i>(To be filled out by the provider) :</i>	
Provider <i>(To be filled out by the provider) :</i>	Contact person <i>(To be filled out by the provider) :</i>

NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

1. Procurement included application and training *(Cf. Requirements)*

Complete deliverance according to the requirements, incl. application and training.	Price	Of which user training	Of which technical training	Estimated lifetime, spare part and technical support.	Comments

2. Additional equipment and functionality *(Cf. Requirements if it's not included in section 1. above)*

Description/type/model	Price	Incl. In price given in section 1. (Yes/No)	Comments

3. Maintenance contract / Hourly rates

Description	Price	Yearly runtime guarante (%)	Hourly travelling rates	Hourly work rates (Service)	Comments

4. Remote - service *(Yearly costs if this might be bought separate, or if it's not included in the offer of maintenance contract)*

Dscription	Price	Incl. In the deliverance (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments

5. Training *(Specify training costs)*

Description	Price	Of which course fee	Of which travelling costs	Of which accommodation costs	Of which diet costs	Comments
User						
Technician						

6. Special tools for maintenance *(If relevant)*

Description	Price	Incl. In delivery (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments

7. Spare parts *(Spare parts that is expected to be changed during the equipments lifetime (cf. the manufactureres maintenance description, evt. statistics)*

Description	Price	Incl. In the maintenance contract (Yes/No)	Comments

8. Warranty

Description	Price	Incl. (Yes/No)	Comments
1 year			
2 years			
5 years			



Haydom Lutheran Hospital
ELCT Mbulu Diocese

(f)

Requirements and specifications Oxygen Plant

Client	: Haydom Lutheran Hospital
Competition	: Call of tender
The tender shall include	: Medical Oxygen Concentrator for Hospital Filling Oxygen Cylinder
Case number	: 19/0400

Provider <i>(To be filled out by the provider)</i>	:
Address <i>(To be filled out by the provider)</i>	:
Contact person <i>(To be filled out by the provider)</i>	:
Phone number <i>(To be filled out by the provider)</i>	:
E-mail address <i>(To be filled out by the provider)</i>	:

1. Introduction
2. Services and products that should be included in the offer
3. Applications
4. Specific requirement to the provider
5. Mandatory and conditional requirements

1. Introduction

Haydom Lutheran Hospital (HLH) started in 1955 and since then slowly developed to be one of the largest and most comprehensive hospital in Tanzania. The hospital is located in Manyara Region about 300km South West from Arusha City. Apart from provision of health care services to patients around, the hospital also contributes to the development of the surrounding community. Its success is mostly due to the motto of the hospital “To the Praise of his Glory” where all people, staff, local partners or foreign donors and friends, join for this one purpose. Currently, the hospital has more than 650 employees and is serving more than 100,000 outpatients and around 12,000 inpatients annually.

The average number of clients using CT-Scan services is around 1,000 per year. The Hospital has been using second hand CT- Scan since 2005 to 2017, which went out of function because of technical trouble and need of repair. Since then many clients have been facing a challenge by travelling far to get this service from other facilities of which some cannot afford referral costs. With this need, we therefore, request to receive offers for equipment that covers what is required in this document and intended use.

Prices are to be in the document for prices.

2. Service or product that should be included in the offer

Offers requested according to the following:

- Medical Oxygen Concentrator for Hospital Filling Oxygen Cylinder according to requirements in this document.
- Placement of Medical Oxygen Concentrator for Hospital Filling Oxygen Cylinder should be within the identified space within the hospital.

3. Application

➤ The equipment should be in use for oxygen production and filling cylinders for hospital use.

The offer shall include necessary and recommended functionality, as well as necessary and recommended peripherals within defined application.

4. Specific requirements for the provider

Provider answer all, and the answers should be according to the structure in this document.

If the Provider finds that there are issues that are incorrect or misleading, the Provider is free to point this out in clarifying questions within the deadline.

5. Functionality and quality		Providers answer
Mandatory and conditional requirements		Description of solution:
5.1	Power/voltage (hospital voltage is 220/400V/ 50Hz)	
5.2	Filling Pressure	
5.3	Purity 95 - 99%	
5.4	Size (Area for placement)	
5.5	Installation	
5.6	Maintenance	
5.7	Flow rate adjustment	
5.8	Distance from other buildings	
5.9	Oxygen capacity, 15 – 20 m ³ / Hour	
5.10	Type and appearance of the cylinder	
5.11	Weight of product stored	
5.12	Storage conditions	
5.13	Safety consideration	
5.14	Standard in which the container complies with (Certification)	
5.15	Other regulatory approval	
5.16	Flow pattern	

5.17	Monitoring and control (automatic/Manual)	
5.18	Noise level	
5.19	Technology (Pressure Swing Adsorption) (Psa)	
5.20	Certificate of analysis	
5.21	User and technical training. The offer should include complete user training for staff that will be operating the oxygen plant.	
5.22	Any description of the technical solution - Built in container or inside building construction facilities - Attach Product information folder - Attach Data sheet	
5.23	Transport and installation costs All costs for transport and installation should be part of the delivery and described in the offer. The provider should verify that the transport of equipment to the hospital, into the room facilities for installation, and that the room facilities are in good quality. Approved through an inspection from the company about two week before the equipment delivery.	
5.24	Pre-inspection of the equipment. The supplier should commit/allow that staff from the radiology department and technical department from the hospital should make visitation at reference installation to inspect and test the equipment before concluding the tender. The costs must be covered by the supplier.	
5.25	References for where requested equipment is in use.	



Haydom Lutheran Hospital
ELCT Mbulu Diocese

Oxygen Plant - Price form

Client :	Haydom Lutheran Hospital
Procurement procedure :	Call of tender
The tender shall include:	Medical Oxygen Concentrator for Hospital Filling Oxygen Cylinder
Case number:	19/0400

Provider <i>(To be filled out by the provider) :</i>	
Provider <i>(To be filled out by the provider) :</i>	Contact person <i>(To be filled out by the provider) :</i>

NB! All prices should be filled in the form. If some of the sections are not relevant please give comments!

For any additional information which the provider find important should be expressed as comments and referred to where can be found as additional information.

Prices should be given in Tanzanian Shillings.

1. Procurement included application and training *(Cf. Requirements)*

Complete deliverance according to the requirements, incl. application and training.	Price	Of which user training	Of which technical training	Estimated lifetime, spare part and technical support.	Comments

2. Additional equipment and functionality *(Cf. Requirements if it's not included in section 1. above)*

Description/type/model	Price	Incl. In price given in section 1. (Yes/No)	Comments

3. Maintenance contract / Hourly rates

Description	Price	Yearly runtime guarante (%)	Hourly travelling rates	Hourly work rates (Service)	Comments

4. Remote - service *(Yearly costs if this might be bought separate, or if it's not included in the offer of maintenance contract)*

Dscription	Price	Incl. In the deliverance (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments
Establishing rates				
Yearly rates				

5. Training (Specify training costs)

Description	Price	Of which course fee	Of which travelling costs	Of which accommodation costs	Of which diet costs	Comments
Users						
SMT - Technicians						
Technicians / Engineers						

6. Special tools for maintenance (If relevant)

Description	Price	Incl. In delivery (Yes/No)	Incl. In maintenance contract (Yes/No)	Comments

7. Spare parts (Spare parts that is expected to be changed during the equipments lifetime (cf. the manufactureres maintenance description, evt. statistics)

Description	Price	Incl. In the maintenance contract (Yes/No)	Comments

8. Yearly running costs (If known as cost for normal functionality)

Description	Price	Comments

9. Warranty

Description	Price	Incl. (Yes/No)	Comments
1 year			
2 years			
5 years			