



GAUTENG PROVINCE
INFRASTRUCTURE DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

TENDER No.: DID 16/09/2021

SPECIFICATIONS: RENOVATIONS OF THE CHEMOLAB AT DR GEORGE MUKHARI ACADEMIC HOSPITAL

SCOPE OF WORK DESCRIPTION

1. The scope involves renovations within an already existing building at the hospital pharmacy therefore space will be a constraint. Tenderers should be guided by the attached floor layout drawing of the renovations required; however, it remains the responsibility of the tenderers to ascertain the dimensions given.

2. **Full designs of the facility must be approved by ECSA professionally registered person**, (i.e Architectural drawings (approved by SACAP professional person), Electrical and Mechanical (HVAC) designs approved by ECSA professional registered person) that provide for the below spaces:

- Mixing room (laboratory)
- Preparation room
- Change room
- Office space (receiving and admin area)
- Mentis grid above the roof for HVAC plantroom

NB: Please see attached draft sketch to guide the floor layout drawing.

3. The building renovations scope as below:
 - Decommissioning and clearing of all existing installations in the space e.g electrical, HVAC grilles, sinks, ceilings etc.
 - Removal of existing floor, screeding and installation of vinyl sheeting which should also be taken up the wall by 250mm
 - Installation of new ceiling and all accessories included. The ceiling should accommodate flush mounted ceiling lights.



GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

TENDER No.: DID 16/09/2021

- Plumbing system upgrade: renovate for the installation of the elbow operated mixers for the 3x stainless steel wash basins and eye shower as per drawing provided
- Installation of chromadek panelling for creation of the facility spaces as per the layout drawing provided.
- Install a viewing window (1200mm x 500mm) between the preparation room and the mixing room as per layout drawing.
- Installation of doors with kick plates and self-closing mechanisms as per the floor layout drawing provided.
- Install a pass-through stainless-steel hatch (500mm x 500mm x 500mm) between the preparation room and the mixing room as per layout drawing.
- Install a counter-top (1500mm x 750mm) in the preparation room as indicated on layout drawing.
- Mixing room: Install 2 x work benches with shelving (1200mm x 600mm x 800mm) in the mixing room as indicated on layout drawing.
- Change room: Provide 1 x lab coat cabinet (630mm x 540mm x 1800mm) with top shelf and hanging rod. Provide 4-level shelves (1000mm long) to be used for storing gowns, overshoes, caps, masks and gloves.
- Office space: Install 5-level shelves (1600mm long) x 1 and 5-level shelves (600mm long) x 1 as indicated on layout drawing. Install 2 x stands (500mm x 500mm x 300mm height) where vacolitres will stand. Install 2 x mild steel cupboards 600mm x 600mm x 800mm (as per layout drawing provided). Provide 2 x L-shaped office desks and chairs for the office space.
- Installation of mentis grid consisting of a platform built above chemo-lab roof which will be used as plantroom for HVAC equipment. The plantroom should be adequately covered on all sides and roof to protect from the weather elements. (Structural engineer to certify strength of support structure.)

4. The mechanical scope is as below:

- Installation of complete HVAC system that incorporates both fresh High Efficiency Particulate Air (HEPA) filtered air supply and HEPA filtered



GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

TENDER No.: DID 16/09/2021

extraction system from the two biological safety cabinets. The systems should also be able to monitor the filter loading for both the supply and the extraction systems. All spaces in the chemo-lab should be catered.

- Installation of a fire protection system providing detection and alarm which should be linked to HVAC control system to switch off the HVAC system in event of fire.
- Installation of room differential pressure control and monitoring system which is linked to the HVAC system. The installation should monitor the set pressure parameters for all 4 (four) spaces of the chemo-lab.
- Installation of 2 x biological safety cabinets including stand, UV lamp, ducting and air-tight damper.
- Testing, commissioning and certification of the complete mechanical installations.
- Training of staff on system operation and day to day maintenance inspection aspects.

5. The electrical renovations scope for new installation (including, cabling, trunking, switches and accessories) for the below:

- A total of 16 new plug points and cabling in the facility (i.e 8 for office space, 2 in changeroom, 2 in preparation room and 4 in the mixing room.
- 10 x 600mm x 1200mm LED lighting for the facility, totally flush with the ceiling.
- Installation of new dedicated power supply to the HVAC panel that will be placed on the roof plantroom. Service provider to identify a suitable DB to draw the power from.
- Testing and commissioning for issuing certificate of compliance for installations.

6. Maintenance spares & services for the equipment

- ✚ Service provider to provide 12 x 6 monthly services.
- ✚ Supply the following spare filters and gaskets for maintenance:
 - ✓ Primary filter washable x 4



GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT

REPUBLIC OF SOUTH AFRICA

TENDER No.: DID 16/09/2021

- ✓ Secondary filter bag x 2
- ✓ Filter HEPA compact x 1
- ✓ Filter HEPA panel x 2