

THE REPLACEMENT OF HVAC) SYSTEM AND THE ROOF WATERPROOFING, AT THE IKHWEZI BUILDING IN NEW GERMANY HVAC SCOPE OF WORK AND TECHNICAL EVALUATION CRITERIA

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Date: 4th March 2025



The New Germany Ikhwezi Building is a double storey building which is constructed from face brick and plastered on the inside; and comprises of five levels as follows:

- a) Lower basement parking
- b) Upper basement parking and offices which comprise of four wings as follows:
 - A and D wing has parking, IT Rooms, and Ablution facilities.
 - B & C wing has offices.
- a) Ground floor offices which comprise of four wings.
- b) First floor offices which comprises of four wings.
- c) Roof level which houses the HVAC plant rooms.

The HVAC scope of Works, as detailed in technical specification documents, activity schedule and accompanying drawings; comprise of the engineering, the provision of all labor including materials and Contractor's equipment, manufacturing, supply, delivery, off-loading, hoisting, erection, testing, balancing, and commissioning to serve, guarantee and maintenance after final completion of the HVAC installation in a systematic manner as follows:

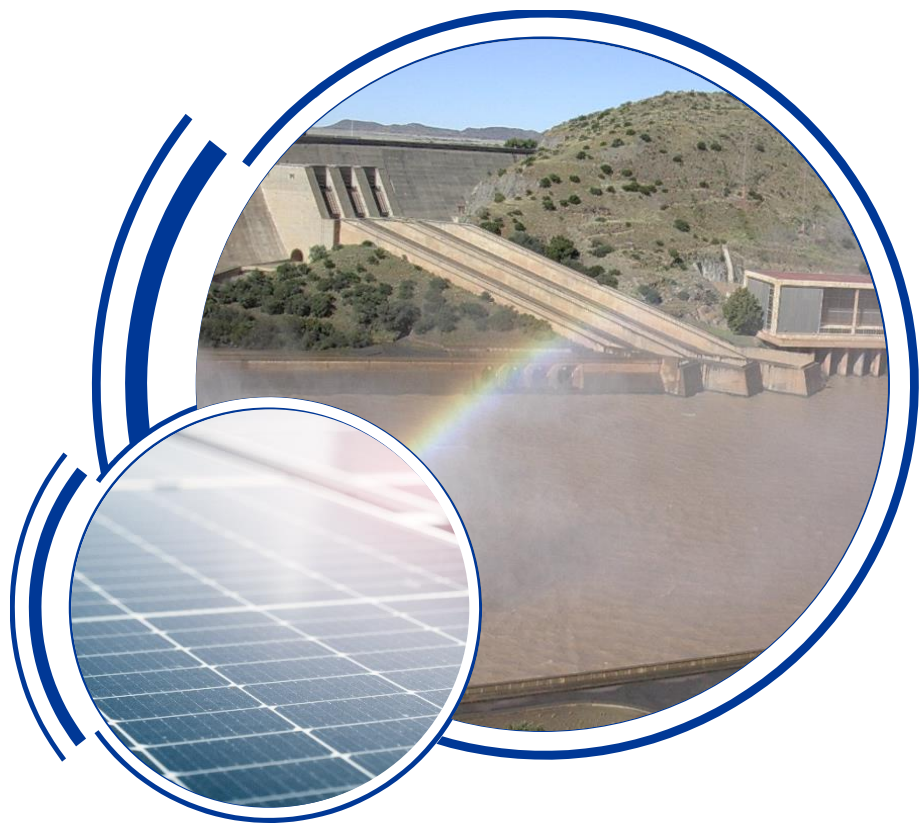
- a) Detailed Design.
- b) Plant and material selection.
- c) Construction/Installation drawings.
- d) Plant installation and quality control.
- e) Testing, balancing, and commissioning documentation.
- f) Operating Instruction and Maintenance Manuals.
- g) Completion certificates and final hand-over

The Works include the following:

- a) Basement IT room 1 & 2 are to be equipped with running and standby down-blow type floor standing indoor units together with matching air-cooled outdoor units to replace existing under-ceiling type split units.
- b) The basement office wing B to C and Information Management area are each to be equipped with one running (without standby) ceiling ducted type DX split unit together with matching air-cooled outdoor units (heat pump type) to replace existing system.
- c) The ground floor office wing A to D blocks are each to be equipped with one running (without standby) DX ducted type Air Handling Units (AHUs) together with matching air-cooled outdoor units (heat pump type) to replace the existing system.
- d) The First Floor Office Wing A to D blocks are each to be equipped with one running (without standby) DX ducted type roof-top type package units (heat pump type) to replace existing system.
- e) The first-floor boardrooms are each to be equipped with one running (without standby) ceiling ducted type DX split unit together with matching air-cooled outdoor units (heat pump type).
- f) First floor to basement floor atrium is to be equipped with one running (without standby) DX ducted type roof-top type package units (heat pump type) to replace existing system.
- g) Associated Electrical Works for refurbished plant.
- h) Associated Controls and accessories for refurbished plant.

The Works include the following:

- a) Associated building and Civil Works for refurbished plant. Modification of structural supports to suit the installation of new energy efficient generation plant and all associated equipment or elements.
- b) Re-testing, re-balancing, and re-commissioning of the complete HVAC system.
- c) Provision of Painting and corrosion protection for complete Works.
- d) Updating of the existing operation & maintenance manuals and provision of new where require.
- e) Update the Plant Codification & Labelling and provide new where required for the complete Works.
- f) The Contractor makes provision for spares and maintenance support as per the requirements set out in this document.
- g) Decommissioning and removal of all old equipment to allocated space at Eskom New Germany and make good where required for complete HVAC Works.
- h) Quality assurance.
- i) The Contractor is to execute maintenance and maintenance management under the supervision of Employer for a period of 12 (twelve) months from the date of handing over of the HVAC System. The minimum intervals for the Contractor to be onsite for inspection and maintenance after handing-over of Works are to be 3, 6, 9 and 12 months respectively.



Thank you!