



CITY OF CAPE TOWN
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STAD KAAPSTAD

WATER AND SANITATION DIRECTORATE
BULK SERVICES DEPARTMENT
WASTEWATER BRANCH

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Dear Sir/Madam

**ENVIRONMENTAL AUTHORISATION PROCESS: MACASSAR WASTEWATER TREATMENT WORKS,
CAPACITY EXTENSION AND ASSOCIATED INFRASTRUCTURE REFURBISHMENT**

CONFIRMATION OF INFRASTRUCTURE SERVICES

This letter confirms the availability of infrastructure services such as water supply, sewage disposal, electricity supply and solid waste management to service the following phases for the Macassar wastewater treatment works (WWTW):

- Construction phase
- Operational phase (following construction for the capacity extension and refurbishment works).

In terms of the Construction phase, the following is noted with respect to infrastructure services:

1. Water Supply: There is sufficient spare capacity in the City of Cape Town's (CCT) potable water network to supply the site during construction. The contractors appointed for the construction of the project will be responsible for registering as a water consumer and arranging the necessary connections (including the installation of a water meter) to the CCT's water reticulation network. Charges will be levied by the responsible water authority (CCT) in respect of water consumed by the contractors, which shall be for the contractor's account and payment.
2. Sewage disposal: These flows will be fairly low, and the disposal authority (CCT) will allow the contractor to discharge their domestic sewage directly into the WWTW, specifically at the head of the works. The Contractors will at their own cost be responsible for making the necessary arrangements with the disposal authority (CCT), and shall at their own cost, be responsible for making connections to the available

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services at the positions specified by the sewage disposal authority, as well as for the removal of such connections on completion of the Contract.

3. Electricity Supply: The electricity demand during construction will be very small, mainly for construction purposes and for the contractor's domestic consumption. There is sufficient spare capacity in the City of Cape Town's (CCT) electrical network to feed the site for construction purposes. The Contractors are responsible for making their own arrangements for the supply of all electrical power required for construction purposes and domestic consumption. The contractors are also responsible for registering metered connections and the removal thereof (including compliance certificates) to the available services at the positions specified by the supply authority (CCT). Charges will be levied by the responsible electricity supply authority (CCT) in respect of electricity consumed by the contractors, which shall be for the contractor's account and payment.
4. Solid waste management: The contractors appointed for the construction of the project will be responsible for managing and disposal of any solid waste generated during the construction process.
5. In general, the contractors will be responsible for obtaining any wayleaves, permissions, or permits associated with the above infrastructure services from the relevant department within the CCT or any other relevant authority.

Once construction is completed (i.e., capacity extension and refurbishment works), the CCT will be responsible for the operations of the facility. All infrastructure services will be available for the operational phase as noted below:

1. Water Supply: There is sufficient capacity in the City of Cape Town's (CCT) water network to supply the Macassar WWTW following the capacity extension and refurbishment works. As part of the construction contracts, the Macassar WWTW potable water connection to the CCT's water reticulation network will be upgraded.
2. Sewage disposal: The sewerage flows generated on site will be domestic sewage and will be fairly low. This will discharge directly into the Macassar WWTW, specifically at the head of the works.
3. Electricity Supply: The electrical supply will be upgraded and will comprise an embedded generation supply to the Macassar WWTW which includes multiple alternative supplies at MV, including onsite biogas (combined heat and power) engines and diesel generators, which will be utilised to feed the new Main Intake Substation. These will be combined with the primary Eskom supplies to create a cogeneration system which will require compliance with Eskom and City of Cape Town's standards for embedded generation. The biogas (combined heat and power) engines and diesel generators will be supplied under the construction contracts, while the MV supplies from Eskom will require an upgrade which will be undertaken directly by Eskom. This process has already commenced and will run in parallel to the construction contracts, however, is planned to be completed 16 months before commissioning (i.e., operational phase) of the Macassar WWTW. Once the Macassar WWTW becomes operational, the required electrical supply will be available.

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4. Solid waste management: General municipal solid waste generated on the site will be collected by the CCT's solid waste department.

In summary:

- The required infrastructure services are available to service the construction phase.
- The required infrastructure services such as water supply, sewage disposal and solid waste management are available to service the operational phase. However, the MV electrical supply from Eskom will require an upgrade. This upgrade process is ongoing and will be completed 16 months before the operational phase begins.

We trust that you find the above in order. Please do not hesitate to contact the undersigned if you require any further information.

Kind regards,



Digitally signed by
Keith Olsen
Date: 2023.12.20
08:41:53 +02'00'

KEITH OLSEN
HEAD: PROJECTS AND IMPLEMENTATION

Copies to: Rajan Moodley (Manager)
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