

MUNISIPALITEIT EMTHANJENI MUNICIPALITY

SCM KENNISGEWING / NOTICE: NR 102/2014

QUOTATIONS: ANOXIC MIXER FOR BIOLOGICAL REACTOR AT THE DE AAR WASTE WATER TREATMENT WORKS

Notice is hereby given in terms of Section 111 of the MFMA (No 56 of 2003) and Clause 12(1) of the Municipal Supply Chain Management Policy that Emthanjeni Municipality intent to turnkey design, supply, delivery, transport, crantage, handling, storage, erection, installation, commissioning, testing, adjustment, handing over in complete working order and upholding during the Defects Liability Period of:

- i. **ONE** curved blade, radial flow, Anoxic Mixer;
- ii. **ONE** vertical spindle, axial flow, Archimedean screw type, a-recycle pump and ancillaries;
- iii. **Alternatively, ONE** patented Tecrovoer Transfer Mixer and ancillaries as;

Specifications:

Anoxic Mixer Specification:

- i. One slow speed, low shear mixer is required in the existing aerobic chamber of the reactor. The volume of the chamber is 12m diameter with water depths of 6.74 m. The required power density is 9W/ m³;
- ii. The mixers are required to keep the solids in suspension and for gently mixing the contents of the basin without introducing oxygen through surface agitation;
- iii. The rated output power of the motors shall be in excess of 125 % of the maximum power requirement at the mixer shaft;
- iv. The speed of rotation of the vertical shaft stirrer shall not exceed 25r/min.

Axial Flow Pumps:

- i. One axial flow pump must be able to pump mixed liquor from the Aerobic zone to the adjoining Anoxic basin at a high rate under low head;
- ii. Provision shall be made for the turnkey, design, supply/construction, installation and commissioning of a channel and/or pipe from the Aerobic reactor to the Anoxic reactor, pump support structure and housing complete with draught tube under this Contract;
- iii. The axial flow pump shall be able to deliver 200l/s against a total head of 350 mm. Characteristic Curves of the pump must be included;
- iv. The maximum rotational velocity of the pump impeller shall not exceed 200 r/min.

General:

The supply and installation of distribution/control boards (including starters) and electrical cables will form part of this contract, and shall be carried out in accordance with the requirements of the Engineer under this Contract.

All steelwork other than items in Stainless steels or 3CR12 steel : Above water : Carboline 891Twin pack epoxy, >350micron; overcoated with a UV resistant polyurethane enamel.
Below water: Carboline 891Twin pack epoxy, >350micron

Motors & gearboxes : Carboline 134, Polyurethane enamel.

All painted equipment installed above water level shall receive a further coat after installation.

Holding down bolts which are to be built into concrete work for securing the equipment shall be manufactured from Grade 304 stainless steel and supplied and installed under this section of the Contract.

The following conditions shall apply:

- i. The Council is not obliged to accept the lowest or any quotation and reserves the right to accept any quotation or portion thereof;
- ii. Quotations must be valid for a period of 90 days after the closing date;
- iii. Emthanjeni Municipality's Supply Chain Management Policy will apply;
- iv. Must register on the Emthanjeni Municipality Database;
- v. All documentary proof such as original tax clearance certificates etc. must be submitted along with the quotation;

Quotations received after the set closing time and date will not be considered. **Sealed clearly marked Quotations must reach the Municipal offices, 45 Voortrekker Street, De Aar 7000, not later than 12h00 on Friday, 24 October 2014.**

Further details can be obtained from Mr. D de Jager at telephone no **044 884 1138 or 083 453 4781.**

Website can be visited at www.emthanjeni.co.za

**I.VISSER
MUNICIPAL MANAGER
PO Box 42
De Aar
7000**