

DATE: 10/10/19
TO: Mr. Kevin Gibson
FROM: W. Ben McDorman
SUBJECT: IRC Central WWTP
One (1) ABW Filter Refurbishment

Mr. Gibson:

MKI Services, Inc. offers the following described equipment and services under the terms and prices stated in this proposal.

MKI Services, Inc. is the sister company of Moss Kelley Inc., Moss Kelley is the authorized representative for Suez.

EQUIPMENT

To furnish the following ABW Automatic Backwash Package Filter parts for One (1) complete Automatic Backwash (ABW) traveling bridge filter system as described:

1. CONVENTIONAL UNDERDRAIN

- A. One (1) LOT of Polyethylene porous plates with nominal dimensions 38 1/2" x 11 1/2" x 3/4" thk.
- B. One (1) LOT of FRP Holddown Angles.
- C. One (1) LOT of 304 SS End Wall Angles
- D. One (1) LOT of 304 SS Hardware for Underdrain Assembly.
- E. One (1) LOT of Sika-Flex "1A" adhesive/sealant caulk.
- F. One (1) LOT of Sika-Flex #260 primer

2. UNDERWATER COMPONENTS

- A. One (1) LOT of UHMW wear strips along with 304 SS fasteners and drop in anchors
- B. One (1) LOT of lower Bottom compression springs (7" free length) compressed to 5 1/4" – 5 1/2"
- C. One (1) UHMW backwash shoe
- D. One (1) LOT of Stainless steel threaded tie-rods for filter cell stiffening

3. LAUNDERS

- A. One (1) LOT of new fiberglass launder sections with fasteners
- B. One (1) LOT of new launder brackets & anchor plates with anchors

4. INDEXING PEG SUPPORT

- A. One LOT of new fiberglass unistrut sections to support indexing pegs above filter cells

5. FILTER MEDIA

- A. One (1) LOT of 0.55 - .65mm Silica sand filter media (includes 5% extra for backwashing fines). Sand will be shipped in Supersacks
- B. The filter media shall consist of a nominal 11" layer of high grade silica sand, complying with Sections 1, 2.2 and 5 of the Standard Specifications for Filtering Material (AWWA Designation:B100). The sand shall be well graded and material showing abnormal grading shall be rejected. The particle size distribution shall be determined by screening through standard U.S. Series sieves. The percent size shall be determined from a plot of the percentage of the material passing each sieve, against the rated opening of the sieve. The 10% size or effective size of the high grade silica sand shall be between 0.55 and 0.65 millimeters. The uniformity coefficient (ratio of 60% size to 10% size) shall not exceed 1.40.

6. MISCELLANEOUS

A. O & M Manuals

- i. Suez will provide one (1) electronic of Operation and Maintenance manuals, that will include installation instructions, assembly & detail drawings, and vendor catalog cut sheets

B. Field Service

- i. Suez will provide a maximum of nine (9) days of service, on site, in not more than three (3) per filter by a qualified Suez Field Service Engineer for observation, testing, startup and training. Includes (2) days observation during the removal of the existing porous plates, holddown angles & existing adhesive/sealant, (5) days observation during the porous plate installation and (2) days for final check out, setting level probes, limit switches, backwash out media fines, verify correct media depth, set washwater and backwash flow control valves and provide operator training. Additional days of field service are available on a per diem basis at \$1,500.00 dollars (USD) per day plus travel expenses. **Suez requires that their Field Service Engineer remain on site to observe the entire porous plate installation.**
- ii. Suez requires that all outdoor ABW® Filter installations being rehabilitated be covered to block direct exposure to the sun during

the entire porous plate installation period and cure time for the adhesive/sealant. The cover must remain in place until the filter media is re- introduced into the filter bed.

SERVICES

Scope Includes:

1. Remove existing one (1) filter parts - (Provided by MKI)
2. Clean out existing filter - (Provided by MKI)
3. Caulk new filter parts - (Provided by MKI)
4. Install new cell dividers - (Provided by MKI)
5. Fill in with Sand - (Provided by MKI)

Items excluded from our erection proposal:

- Concrete
- Permits
- Painting
- Electrical

ACCESS

The basis of this proposal is that it is the responsibility of the IRC Central WWTP to provide MKI Services with access immediately to the valves at the facility. Access is to be provided on an uninterrupted basis. Disruptions or work stoppages shall be cause for extra compensation for moving or waiting.

NON-UNION

We are a merit contractor (open shop) and as such will perform all fieldwork with personnel not affiliated with trade unions. The Purchaser is responsible for providing and maintaining site conditions compatible with this labor status.

CONFINED SPACE

By the definitions of confined space in accordance with the OSHA regulations, the subject work is not in a confined space. If Purchaser's safety regulations are in disagreement with this interpretation, then we need to be advised as to what rules will be required and be given an opportunity to price the cost of those rules.

EXCLUSIONS

Storage
Foundations
Utility supply

PAYMENT TERMS: 90% NET 30 Days, 10% Retainage up to a maximum of 120 days.

SHIPMENT: Shipment can be made 20-22 weeks after receipt of final drawing approval and release for manufacture. All shipments are F.O.B. factory with full freight allowed to the jobsite. All claims for damage or loss during shipment shall be initiated by the purchaser.

SERVICE: Field service is included as specified and called in the attached Suez proposal. If additional service is required, it is available at a daily rate of \$750 per day plus travel and living expenses.

TAXES: This proposal does not include any sales or use taxes of any kind.

VALIDITY: This proposal is firm for 90 days after which it is subject to withdrawal or change without notice.

INSTALLATION: Installation will require approximately four (4) weeks per filter after all materials are delivered to the jobsite.

PRICE: **\$ 222,000.00 – For One (1) Filter**
 \$ 415,000.00 – For Two (2) Filters

If you have any questions regarding this scope, please contact me at our Coral Springs office.

Very truly yours,
MKI SERVICES, INC.

A handwritten signature in black ink, appearing to read "W. Ben McDorman", with a long horizontal flourish extending to the right.

W. Ben McDorman