PARKSON CORPORATION

ATT. ITA

DYNASAND° FILTER

QUOTATION NO: DSF-1769-I

Sheet 1 of 3 April 2, 1990

TO: BOARD OF DIRECTORS - SAUSALITO-MARIN CITY SANITARY AGENCY (hereinafter "Purchaser")
#1 Fort Baker Road
Sausalito, California 94965

ATTENTION: Raymond G. Gergus, President - Board of Directors

PARKSON CORPORATION OFFERS THE PRODUCT AS DESCRIBED BELOW:

SPECIFICATIONS:

- (2) PACKAGED DynaSand® Filters Model DSF-64DB each consisting of:
- A. Cylindrical tank; feed inlet and risers; feed distributor ring; filtrate weir and flume; airlift pipe; internal sand washer, sand distributor cones, reject compartment with weir and flume; compressed air control station and headloss gauge. The tank overall dimensions are approximately 9'-0" inside diameter by 21'-10-1/2" H. Total filtration area is 128 sq.ft. total for two filters. Loading rate at 925 gpm design flow is 7.23 gpm/sq.ft.
- B. Shipped in pre-assembled modules. Approximate Shipping weight 8,000 lbs. Approximate total operating weight 143,000 lbs. (Figures are per filter.)
- C. MATERIALS OF CONSTRUCTION
 - 1. Tanks/Supports: Epoxy painted carbon steel, per specifications.
 - 2. Filter Internal Parts: FRP, 304 stainless steel, polyethylene.
- D. FILTER MEDIA (as specified on page 2) By Parkson
- E. Access ladder and safety cage with interconnecting platform, grating, handrails, constructed of anodized aluminum.

FAX: 305 974-6182

- F. Seismic Zone IV construction.
- G. Dual compressor package.
- H. Pulse start.
- I. Float switches with solenoid.
- J. Ten percent (10%) extra media.
- K. NEMA 4X enclosures.
- L. Insurance.
- M. TAX.
- N. Anchor bolts by others.

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TOTAL PRICE: F.O.B. Point of Shipment

With equipment freight & media freight allowed to the jobsite

Prices valid for 60 days for delivery of equipment within 6 months.

PAYMENT TERMS: 10% Upon favorable review of shop drawings;

70% Upon delivery and acceptance of the goods;

10% Upon favorable review of manuals;

10% After installation by others and upon completion of

special field services including affidavits.

STANDARD SHIPMENT: 112 days after final drawing approval (latest).

FILTER MEDIA:

Type

Filtration bed depth

Media Density

Effective Size

Shipping Weight

By Parkson Sand

80 inches

124 lb./ft.3 wet

Confirm with factory prior to

ordering sand

Uniformity Coefficient Confirm with factory prior to

ordering sand

30 tons, plus 10% extra media

UTILITY REQUIREMENTS (By Parkson)

compressed Air: 3.3 SCFM at 15-25 psig per filter - (Compressed air system will be designed to accommodate five (5) filters.)

APPLICATION/DATA

The following process description is based upon pilot testing conducted during October, 1989 on a representative secondary effluent (trickling filter) feed. For a peak flow of 925 gpm with a feed containing less than 45 ppm suspended solids after filtering through deep-bed DynaSand Filters at a surface loading rate of 7.23 gpm/ft.², the filtrate will contain less than 25 ppm suspended solids.

The proposed units are similar to that depicted on drawing #3F-1660, enclosed.

PATENTS: The DynaSand® Filter quoted herein operates under the following U.S. patents: 4,126,546; 4,197,201 and 4,246,102. Additional patents are pending. The quoted price includes a one-time royalty payment (if any) which provides the Purchaser with an immunity to operate the equipment specified in the quotation under this patent or patents which are pending should they issue.

DRAWINGS, OPERATING & MAINTENANCE MANUALS:

Per specifications.

