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BT600 – STAINLESS STEEL MANUAL BRINE MAKING PLANT COMPLETE WITH OVERFLOW PREVENTION AND PUMP PROTECTION SAMPLE SPECIFICATION SHEET

Brine Making Plant shall meet the following minimum specifications:

Suppliers must complete compliance statements and provide specifications where requested:

1. The dissolution tank, brine containment tank and spillway shall be welded stainless steel, one-piece construction.

Comply: _____yes _____no

2. The entire Brine Making Plant shall be constructed into a single skid frame to allow for easy loading, un-loading, and positioning using various fork lift trucks.

Comply: _____yes _____no

3. The dissolution tank, brine containment tank and spillway shall be constructed of 304 grade stainless steel. Plastic or fiberglass construction is not permitted.

Comply: _____yes _____no

4. The Brine Making Plant shall be delivered as a complete, one piece, and turnkey system with all plumbing, electrical, pump, etc. factory installed and affixed to the plant. No field assembly, other than to connect the municipality's water supply and plug in the electrical control panel shall be necessary. The municipality will be responsible for connecting the discharge pump to its own storage facilities.

Comply: _____yes _____no

5. Overall dimensions shall not exceed:

Width: 150 inches

Comply: _____yes _____no

Depth: 62 inches

Comply: _____yes _____no

Height: 60 inches

Comply: _____yes _____no

6. System being supplied shall be designed and constructed so as to assure the dissolution tank can be filled using a standard 2 yd³ or 3 yd³ loader bucket.

Comply: _____yes _____no

7. System shall be an upward water flow type system. Water will move through the salt from the bottom to the top. The brine will exit the dissolution tank through a fixed, stainless steel spillway into the brine containment tank.

Comply: _____yes _____no

8. Dissolution Tank Opening:

Width: 116 inches minimum

State Width: _____

Depth: 36 inches

State Depth: _____

Capacity: 3.5 yd³

State Capacity: _____

9. Brine Containment Tank:

Capacity: approximately 2650 litres

State Capacity: _____

10. Pump/Motor shall be:

Close coupled only:

Comply: _____yes _____no

Rated for 120 USGPM flow rate

Comply: _____yes _____no

2 HP – 115/220 VAC Single Phase

Comply: _____yes _____no

Housing shall be glass reinforced polypropylene

Comply: _____yes _____no

Pump shaft shall be stainless steel

Comply: _____yes _____no

All other pump parts shall be corrosion resistant

Comply: _____yes _____no

11. All manual valves and fittings that are exposed to salt or brine shall be Banjo polypropylene. Manual water supply and dissolution valves shall be brass. All manual valves shall be ¼ turn ball valves.

Comply: _____yes _____no

12. All fresh water supply lines and dilution water supply lines affixed to the Brine Making Plant shall be minimum 1" Sch. 80 PVC pipe. Flexible hose is not permitted.

Comply: _____yes _____no

13. Flexible hose affixed to the Brine Making Plant used for recirculation purposes shall be "blue-helix" reinforced and rated for up to 100 PSI and have a service temperature rating of -40°C to 120°C.

Comply: _____yes _____no

14. Main water supply line shall be controlled using a solenoid valve that is activated/de-activated by the electrical panel.

Comply: _____yes _____no

15. The Brine Making Plant shall include water/brine high level float switches on both the dissolution tank and the brine containment tank. The switches will close the main water supply valve automatically in order to prevent overflowing.

Comply: _____yes _____no

16. The Brine Making Plant will include a low level safety switch that will automatically prevent the pump from running when there is no liquid in the brine containment tank.

Comply: _____yes _____no

17. Electrical Panel:

Nema 4	Comply: _____yes _____no
10' electrical cord c/w "twist lock" plug	Comply: _____yes _____no
Water "on/off" selector switch	Comply: _____yes _____no
Illuminated green pump "on" switch	Comply: _____yes _____no
Motor contactor c/w overload relay	Comply: _____yes _____no
Emergency Stop button	Comply: _____yes _____no
Float switch relays equipped with manual overrides	Comply: _____yes _____no

18. Spillway:

The spillway shall have a flow capacity of not less than 18,000 litres (4760 USG) per hour

Comply: _____yes _____no

19. Clean-Out:

The dissolution tank shall include at least one 4" stainless steel straight-through clean-out pipe c/w NPT plug located at the side (brine tank side). No elbows or other flow diversions are permitted on the clean-out pipe.

Comply: _____yes _____no