SECTION 11192 - CHEMICAL PUMPS, PLASTIC BODY

City of San Diego, CWP Guidelines

\$#		-						
	NTS:	This pump is a constant speed chemical feed systems.	pum	p n	ormally used as a transfer pump in	#\$		
PART	1 - GE	NERAL						
1.1	WOR	ORK OF THIS SECTION						
A.		The WORK of this Section includes providing plastic body chemical pumps with horizontal electric motors, and all appurtenant work.						
1.2	RELA	ELATED SECTIONS						
A.	A. The WORK of the following Section applies to the WORK of this Section. Othe of the Specifications, not referenced below, shall also apply to the extent required performance of this WORK.							
	1. 5	Section 11175 Pumps, General						
PART	2 - PR	ODUCTS						
2.1	PUMF	PUMP NAME: [] (P-[] through P-[])						
A.	General: Plastic body chemical pumps shall be suitable in all parts and materials for the type of chemical involved and they shall conform to the following requirements:							
	1. 1	Number of pumps		-]]		
	2. L	Location		-]]		
	3.	Service		-]]		
	4. (Operation (hours per day)		-]]		
B. Operating Conditions:								
	1. (Capacity (gpm)		-]]		
	2.	NPSH available at suction (ft)		-	[]		
	(Pump head (TDH-ft) in feet of W.C., adjusted or sp. grav. of chemical)		-	[]		
	4. 7	otal discharge head (ft)	-	[]		

[FEBRUARY 1991] [CONTRACT NO.]-[CONTRACT TITLE] CHEMICAL PUMPS, PLASTIC BODY PAGE 11192-1

	Э.	Liquia to be pumpea	-	l I			
	6.	Specific gravity of liquid	-	[]			
	7.	Liquid temperature (degrees F)	-	[]			
	8.	Liquid viscosity (centistokes)	-	[]			
	9.	pH of liquid	-	[]			
	10.	Min pump efficiency (percent)	-	[]			
	11.	Max pump speed (rpm)	-	[]			
	12.	Min motor size (hp)	-	[]			
	13.	Max motor speed (rpm)	-	[]			
C.	Pun	Pump Dimensions:					
	1.	Min impeller diameter (in)	-	[]			
	2.	Min size suction flange (in)	-	[]			
	3.	Min size discharge flange (in)	-	[]			
	4.	Flange rating (psi)	-	[]			
2.2	PUN	PUMP REQUIREMENTS					
A.		Construction: Construction of plastic body chemical pumps shall conform to the following requirements:					
	1.	Casing	-	Fiberglass reinforced vinyl ester or other approved, suitable plastic			
	2.	Impeller	-	Fiberglass reinforced vinyl ester or other approved, suitable plastic			
	3.	Bearing housing	-	Cast iron or ductile iron with oil reservoir			
	4.	Bearings	-	Single and double rows of radial and thrust bearings, with [40,000] hours L-10 life			
	5.	Shaft	-	Stainless steel with Teflon vinyl ester, or stainless sleeve			
	6.	Seal	-	Mechanical seal with stainless steel parts, carbon ring, ceramic seat and viton packing, or equivalent			
	7.	Coupling	-	Flexible coupling with guard			

8. Pump base

- Cast iron, fabricated steel, fiberglass, or other suitable plastic base with drain
- B. **Drive:** Unless otherwise indicated, the plastic body chemical pumps shall have direct drives with horizontal, heavy-duty, TEFC electric motor, suitable for [480-volt, 3-phase, 60-Hz] ac power supply, in accordance with Section 16040.

2.3 SPARE PARTS

- A. The following spare parts shall be provided for each pump:
 - 3 sets of all gaskets and O-rings
 - 1 set of all pump bearings
 - 1 mechanical seal
- B. Spare parts shall be packaged and boxed as indicated in Section 11000.

2.4 MANUFACTURERS

- A. Products shall be manufactured by one of the following (or equal):
 - 1. Duriron Company, Inc., model []
 - 2. Ingersoll-Rand, model []
 - 3. Met Pro Corporation, Fybroc Division, model []
 - 4. Plastonics Pumps, Inc., model []

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Pumping equipment shall be installed in accordance with approved procedures submitted with the shop drawings and as indicated.
- B. General installation requirements shall be as indicated in Section 11175.

** END OF SECTION **