

8	PT (pumping temp)	Min / Nor / Max	°C	0 / 55	Casing support	<input type="checkbox"/> Centerline	<input type="checkbox"/> Foot	<input type="checkbox"/> Bracket	
9	Sp Gr at PT			0.986 - 1.200	Impeller mount	<input checked="" type="checkbox"/> Overhung	<input type="checkbox"/> Between Brgs		
10	Vap. press. at PT	bara		0.16	Case split	<input checked="" type="checkbox"/> Radial	<input type="checkbox"/> Axial		
11	Viscosity at PT	cp		0.5	No. of stages	<input checked="" type="checkbox"/> Single	<input type="checkbox"/> Two	<input checked="" type="checkbox"/> Multi	
12	Corr. / eros caused by	CHLORIDE ppm		(5)	Impeller type	<input type="checkbox"/> Closed	<input type="checkbox"/> Single	<input type="checkbox"/> Double Suction	<input checked="" type="checkbox"/> Open
13	Capacity : normal	m ³ /hr		14.5	Volute type	<input checked="" type="checkbox"/> Single	<input type="checkbox"/> Double	<input type="checkbox"/> Diffuser	
14	rated	m ³ /hr		18	Nozzles :	Size	Rating	Facing	Location
15	Differential head	m		79.1	Suction	-	-	-	Bottom
16	Discharge press. at Nozzle	barG		7.8	Discharge	-	ANSI 150 LB	RF	Side
17	Suction press	barG		0	Misc. Conn :	Size	Rating	Facing	Remarks
18	Diff. press	bar		7.8	Vent				na
19	Hydraulic HP	kW		3.9	Drain				na
20	Max. Suction press.	barG		0.3					
21	NPSH avail,	m		Submerged	C.W. In & Out	na			
22	PERFORMANCE								
23	NPSH req'd (water)	m		By Vendor	Flushing	na			
24	Efficiency	%		By Vendor	Quenching	na			
25	BHP at rated cap.	kW		By Vendor					
26	Min. Cont. flow : Thermal / Stable	m ³ /hr		Vendor / Vendor	Imp. dia. Min. / Rated / Max. mm				By Vendor
27	Max. Head rated imp.	m		By Vendor	Bearing No. / Type	radial			By Vendor
28	Max. BHP rated imp.	kW		By Vendor		thrust			By Vendor
29	Max. Allow. work press.	barG		By Vendor	Lubrication type				By Vendor
30	Hydrotest press.	barG		By Vendor	Coupling : Mfr. / type				By Vendor
31	Design press. / temp.	barG / °C		12 / 55	Packing : Mfr. / No. size				NA
32	Rotation viewed from coupling end			By Vendor	Mechanical seal : API code				Manufacturer Standard
33	Rotating speed	rpm		By Vendor	Mfr. / size, model No.				Manufacturer Standard
34	S.S.S. at BEP	m ³ /hr-m-rpm		By Vendor	API plan : flush / aux seal				Manufacturer Standard
35	Max. Allow Sound Level / Expected	dB(A)		85 /	Baseplate				
36	Vertical Pumps :				MATERIALS API Matl. class : Supplier to recommend				
37	Pit depth / Base to pump bottom	m		(3)	Pressure casing	By Vendor	Throat bush		By Vendor
38	Min. Submergence req'd	m		By Vendor	Inner case parts	By Vendor	Shaft		By Vendor
39	Pump length (Imp. to disch. nozzle)	m		By Vendor	Impeller	By Vendor	Case gasket		By Vendor
40	SHOP TESTS	Required		Witnessed	Shaft sleeve	By Vendor	Wet bolt / nut		By Vendor
41	Performance				Case wear. ring	By Vendor			
42	NPSH				Imp. wear. ring	By Vendor			
43	Hydrotest				Cooling water : API c.w. pipe plan :		NA		
44	Motor :	Supplied by			In :	barG / °C			/
45	Mfr.:	HP:	kW	rpm	Out :	barG / °C			/
46	Area class :	Phase: 3	Volts: 400 V	Cycles: 50	Hz	Design :	barG / °C		/
47	Cl. Div. Gr.	Type: Zone 2, Gr. IIA, Div.T3				Consumption	Pump / Flushing cooler / Lube oil cooler / Total		
48	Turbine :	Supplied by				m ³ / hr	/	/	/
49	Mfr.:	HP:	kW	rpm	External flush / Quench		Flushing		Quenching
50		Steam consump.	ton/hr		Fluid name :				
51	Speed Changer :	Supplied by			In :	barG / °C			/
52	Mfr.:	Type	Gear loss	KW	Consumption	m ³ /hr			
53		AGMA SF	Efficiency	%	Lubricant	Bearing : Grade	/ Qty	ℓ,	
54		Speed (Input / Output) :	/	rpm		Tandem / Double seal : Grade	/ Qty	ℓ,	
55	REMARKS :								
56	1. Manufacturer standard vertical full submerged pump to be provided.								
57	2. Fluid contains 5 vol% of sludge, open impeller with cutting system.								
58	3. Pump will be started at HLL and Stopped at LLL. (See Sketch)								
59	4. Foot with discharge elbow and piping, rail etc. to be provided by supplier								
60	5. Uric Acid (pH 6)								
61	6. Manufacturer to select pump type								