

1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> DESIGN <input type="radio"/> PURCHASE <input type="radio"/> AS BUILT					Rev.
2	UNIT FIRE WATER					
3	NO. REQUIRED 1					
4	SERVICE Fire water	PUMP SIZE, TYPE & NO. OF STAGES			Horizontal (BY VENDOR)	
5	VENDOR	MODEL By vendor	SERIAL NO.	By vendor		
6	Note: <input type="radio"/> Represents data to be completed by CONTRACTOR <input type="checkbox"/> by VENDOR <input type="checkbox"/> by VENDOR if not by CONTRACTOR					
7	GENERAL					
8	PUMPS TO OPERATE IN (PARALLEL) YES					
9	NO. MOTOR DRIVEN 1					
10	PUMP TAG NO. P-201					
11	MOTOR TAG NO. M-201					
12	MOTOR PROVIDED BY BY VENDOR					
13	MOTOR MOUNTED BY BY VENDOR					
14	APPLICABLE OVERLAY STANDARD NFPA 20, IPS, API 610					
15	OPERATING CONDITIONS					
16	● CAPACITY:	(Rated)	341	Note 1	m ³ /hr	
17	● SUCTION PRESSURE	(MAX / MIN)	1.40 / -0.10		Barg	
18	● DISCHARGE PRESSURE @ RATED FLOW (MAX / MIN)		10.00 / 8.50		Barg	
19	● DIFFERENTIAL PRESSURE		8.60		Bar	
20	● DIFFERENTIAL HEAD		87.8		m	
21	● NPSHA		10.2		m	
22	● HYDRAULIC POWER		81.461		KW	
23	SERVICE: <input type="radio"/> CONTINUOUS <input checked="" type="radio"/> INTERMITTENT					
24	PROCESS VARIATION					
25	STARTING CONDITION					
26	● PARALLEL OPERATION CONDITION REQ'D					
27	SITE AND UTILITY DATA					
28	LOCATION					
29	<input type="radio"/> INDOOR <input type="radio"/> OUTDOOR <input checked="" type="radio"/> UNDER ROOF <input type="radio"/> PARTIAL SIDES					
30	<input type="radio"/> UNHEATED <input type="radio"/> HEATED <input type="radio"/> GRADE <input type="radio"/> MEZZANINE					
31	<input type="radio"/> ELECTRICAL AREA CLASSIFICATION					
32	TEMP CLASS	GAS GROUP	ZONE	SAFE AREA		
33	<input type="radio"/> WINTERISATION REQ'D <input checked="" type="radio"/> TROPICALISATION REQ'D					
34	SITE DATA:					
35	● ELEVATION	m	● BAROMETER, Bara	1.028		
36	● RANGE OF AMBIENT TEMPS: MIN/MAX 13.2/46.2 °C					
37	● RELATIVE HUMIDITY: MAX/MIN 87 / 48 %					
38	UNUSUAL CONDITIONS					
39	<input checked="" type="radio"/> DUST <input type="radio"/> FUMES <input type="radio"/> OTHER <input checked="" type="radio"/> SEA BREEZE					
40	UTILITIES					
41	STEAM:	Press. (Max./ Min.)	Temp.	(Max./ r Min.) °C		
42						
43	ELECTRICITY	DRIVERS	HEATING	CONTROL	SHUTDOWN	
44	MAIN AUX					
45	VOLTAGE					
46	HERTZ					
47	PHASE					
48	COOLING WATER					
49	TEMP INLET	°C	MAX RETURN	°C		
50	PRESS NORMAL	Barg	DESIGN	Barg		
51	MIN RETURN	Barg	MAX ALLOW DP	Bar		
52	WATER SOURCE Raw Water					
53	INSTRUMENT AIR PRESSURE (Barg)					
54	MAX. NORMAL MIN.					
55						
	LIQUID					
	● TYPE OR NAME OF LIQUID Raw Water					
	LIQUIDS <input type="radio"/> TOXIC <input type="radio"/> FLAMMABLE <input type="radio"/> OTHER					
	● PUMPING TEMPERATURE (PT) NORMAL °C					
	MAXIMUM 47 (Note 2) °C MINIMUM 13 °C					
	● SPECIFIC GRAVITY 1 @ PT					
	● MAXIMUM SPECIFIC GRAVITY 1 @ °C					
	● SPECIFIC HEAT 4.18 (KJ/KG.°C)					
	● VAPOUR PRESSURE @ PUMPING TEMP 0.1 Bara					
	● VISCOSITY 0.60 cP @ 50					
	<input type="radio"/> MAX VISCOSITY @ MIN TEMP cP @ COLD START					
	<input type="radio"/> CORROSIVE/EROSIVE AGENT					
	<input type="radio"/> CHLORIDE CONCENTRATION					
	<input type="radio"/> H2S CONCENTRATION					
	CONVENTIONS					
	NPSH REFERENCE DATUM					
	<input type="radio"/> PUMP CENTRELINE <input type="radio"/> UNDERSIDE OF BASEPLATE					
	<input type="radio"/> SUCTION NOZZLE CENTRELINE <input type="radio"/> OTHER					
	<input type="radio"/> ESTIMATED POWER					
	ESTIMATED PUMP EFFICIENCY					
	ESTIMATED RATED PUMP ABSORBED POWER KW					
	ESTIMATED PUMP ABSORBED POWER AT MAX. SG KW					
	DRIVER RATING FACTOR PER API 610					
	ESTIMATED DRIVER RATING KW					
	RATED PERFORMANCE					
	<input type="checkbox"/> rpm					
	<input type="checkbox"/> PROPOSAL CURVE NO					
	<input type="checkbox"/> IMPELLER Dia mm: RATED MIN. MAX.					
	■ Power(rated/max): EFFICIENCY %					
	<input type="checkbox"/> MINIMUM CONTINUOUS FLOW THERMAL m ³ /H STABLE m ³ /H					
	<input type="checkbox"/> MAX HEAD RATED IMPELLER m					
	<input type="checkbox"/> MAX POWER RATED IMPELLER KW					
	<input type="checkbox"/> NPSH REQUIRED AT RATED CAPACITY m					
	<input type="checkbox"/> SUCTION SPECIFIC SPEED (rpm,m ³ /H,m)					
	■ MAX SOUND PRESSURE LEVEL 85 @ 1M dB(A)					

1	NOTES		Rev.
2	Note 1 : Pump shall provide 150% of rated capacity at not less than 65%of total rated head		
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6	Note 2: Pump design temperature 85 °C		
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10	Note 3: Max. allowable pressure at shut off shall be 16 bar		
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17	Note 4: Pumps shall comply with NFPA 20 and API 610 requirements.		
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