

BOILER FEED WATER PUMP				Doc No			
				Rev No.		0	
				Sheet No.			
				Project title.			
				Date.		2019-6-29	
Item Description			Data		Remarks		
	Item		Boiler Feed Water Pump (HP)				
	Item Tag		PU-101				
	Item Code						
	Service		Boiler Feed water				
	Quantity	No.	2 X (100 % Capacity)				
General Data	Country Installation		Pakistan				
	Location		Out Door				
	Design code		Vendors Standards				
	Inspection authority		NA				
	Ambient temperature min / max	°C	-4~48				
	Altitude	m	189				
	Relative Humidity min / max	%	30 / 80				
	Wind Velocity (max)	Km/hr	144				
	Seismic loads(Coefficient)		Zone-2A				
	Area classification						
Design Data	Maximum sound pressure level at 1meter	dB(A)	< 84				
	Site Elevation from sea level	m	189				
	Fluid		Boiler Feed Water				
	pH		> 9				
	Fluid Type	-	Corrosive	X	Non-Corrosive		
	Solids		X	None		Present	
	Service Conditions		Minimum	Normal	Max/Design		
	Capacity	Kg/hr	1650	16500	18150	Include the Minimum Flow	
	Pumping Temperature	°C	Saturation	Saturation	Saturation	Quote RCV separatly	
	Pressure in Vessel	Barg	0.2 ~ 0.5	0.2 ~ 0.5	0.2 ~ 0.5		
	Specific Gravity @ pumping temperature		Saturated	Saturated	Saturated		
	Discharge Pressure Outlet RCV	Kg/cm2(g)	By vendor	38	By vendor		
	NPSH Available	m	5				
	NPSH Required	m	Vendor				
	Pump Type		Vendor				
	No.Of stages	#	Vendor				
	Pump Speed	RPM	Vendor	Vendor	Vendor		
Efficiency	%	Vendor	Vendor	Vendor			
Rated Power Design	Kw	Vendor	Vendor	Vendor			
Driver Power	Kw	Vendor					
Mechanical design temperature	°C	120					
Mechanical Data	Line Size Inlet / Outlet		4" /2"				
	Flange Rating inlet /outlet		Vendor				
	Bearing Type / Lubrication Type		Vendor				
	Casing spilt		Vendor				
	Coupling / Guard		Vendor				
	Mechanical Seal		Vendor				
	Rotation from coupling end		Vendor				
	Flushing / Cooling Plan		Vendor				
	Casing		Vendor				
	Implier material		Vendor				
	Wear Ring		Vendor				
	Shaft		Vendor				
Electrical Data	Driver Type		Electric Motor				
	BHP		Vendor				
	Starter Type		ASD				
	Frame		Vendor				
	Enclosure / Motor protection class		TEFC / IP55				
	Phase / Cycles / Volts		3 / 50 / 400				
	Temperature Class		T4				
	Insulation class / Max.Temp		F				
Area Classification							
Additional Data & Accessories			Data				
	Suction Strainer Specs / Drawings		Vendor				
	Strainer Delta P		Vendor				
	Recirculation Valve Specs / Drawings		Vendor				
	Recirculation Valves Delta P		Vendor				
	Performance Curves		Vendor				
	Minimum Flow Requirement	Kg / hr	Vendor				
	Cooling Water Requirement	Kg / hr	Vendor				
	Temperature Max / Min	°C	35 / 25				
	Pressure Max / Min	Kg/cm2(g)	4 / 3				
Notes	1)	The electric motor rating should be based on power consumption at maximum capacity of pump (at end of QH curve).					
	2)	One pump will be in motor driven and one will be steam turbine driven					
	3)	For Trouble free operation / service guarantee period will be 24 months from date of shipment.					
	4)	Direction of rotation clockwise as viewed from the driver end					
	5)	Balancing water pipe-return to pump first stage.					