

				SHANGHAI LIANCHENG GROUP CO.,LTD DATA SHEET						Document Number	
HORIZONTAL END SUCTION PUMP											
Location: Kingdom of Saudi Arabia				Area				Date		April, 26th, 2020	
Clients:				Specification No.		No. LCLT20200414STDATA		Qt.		10	
Latest Revision Project & Consultant Details (If Applicable)											
Customer Project Name:											
System Description		IS125X100-315									
Material Requisition No.				Number Working		10		Standby		0	
Manufacturer		SHANGHAI LCPUMPS		Size & Type		IS125X100-315		SN.		N/A	
Motor Required (y/n)		Y		Supplied by		/		Mounted by		/	
PRIMARY OPERATING CONDITIONS (Customer to complete) - EACH PUMP						PERFORMANCE (Supplier to complete)					
Fluid Description		RAW WATER				Curve No.		See attached			
Conc. of solids, % w/w		N/A		Solids d50, µm		N/A		No. of Stages		1	
Liquor S.G. @ Temp.		N/A		Solids S.G.		N/A		Impeller Diameter		308	
Slurry S.G. @ Temp.		N/A		Solids Moh No.		N/A		NPSHR		5.5	
Boiling Point Elevation, °C		N/A		Viscosity @ Temp		N/A		mPas		Seal Flush	
		Normal		Max		Design		Design Shaft Power		172	
Flow @ Temp, m³/hr		280		320		280		Preferred Motor		220	
Operating Temp., °C		normal		normal		normal		Max Power Design Impeller		N/A	
Suction Pressure, kPag		N/A		N/A		N/A		Max Head Design Impeller		N/A	
Discharge Pressure, kPag		N/A		N/A		N/A		Stuffing Box Pressure		N/A	
Differential Pressure, m		154		N/A		154		Rotation Facing Coupling		according inquiry	
NPSHA @ Design Flow & Temp., m				N/A				Min. Continuous Flow		m³/hr	
Packing or mechanical seal		Burgmann Mechanical seal				Other					
Thermal Cut Out Switch Required (Y/N)		N									
CONSTRUCTION						MATERIALS					
Nozzles		Size (NB)		Rating		Facing		Max. Load (kN)		Max. Moment	
								Axial		Radial	
										(kNm)	
Suction		DN100		PN25		RIGHT		N/A		N/A	
Discharge		DN125		PN25		LEFT		N/A		N/A	
Pump Type		IS125X100-315				Double Cased (y/n)		N		Suction Casing	
										SS 316L	
										Water Guide Bearing	
										N/A	
Pressure		Max. Allowable		1.6MPa		kPa(g) @		°C		Impeller	
										SS 316L	
										Stuffing Box	
										N/A	
Hydro Test		2.4MPa		kPa(g) @		°C		Discharge Casing		SS 316L	
										Coupling Halves	
										steel	
Impeller Dia. (mm)		max		342		Min.		274		Design	
										308	
										mm	
Impeller Attachment (Collets / Key / Threaded)		key				Shaft Sleeve		N/A		Other	
Impeller Type (Open / Closed)		Closed				Mechanical Seal		Burgnman Mechanical Seal			
Flow @ Temp. (l/min)		Sealing		N/A		Flushing		N/A		Cooling	
										N/A	
Pump shaft diameter(Impeller end): mm						bearing No.: drive end: tail end:					
DRIVER (Supplier to complete)						SHOP TESTS (Customer to complete)					
Duty Rated		220		kW		Speed		3588		rpm	
Volts / Ph / Hz		380V/3/60		Frame		IEC ST.		poles		2	
Drive Type (Variable / Fixed)		Motor brand: Simens or by clients choices				NPSH		N		N	
Start method		By client's requirement				Noise		Y		N	
						Shop Inspection		N		N	
Remarks						Recommond spear parts					
Revision No.		A		B		0		Name		Qt. (set)	
										Term	
Prepared by / Date								M/S		1	
										2 years	
Consultant Approved by / Date		N/A		N/A		N/A		O-ring		1	
										2 years	
Client Approved by / Date		N/A		N/A		N/A		Wear ring		1	
										2 years	
Status		Internal review		Client Review		Construction / Use		Gasket		1	
										2 years	
										shaft sleeve	
										1	
										5 years	
NOTES: 1. Data Sheet based on Calculation No.											
2. Where an item doesn't apply show N/A.											
SHANGHAI LIANCHENG (GROUP) CO.,LTD											