Sr. No.			Description	UOM (Wherever Applicable)	Data (Common For All Models)	KAA045.14	KAA075.14	KAA115.14	KAA135.14	KAA160.14	KAA175.14	KAA130.24	KAA180.24	KAA195.24	KAA220.24	KAA245.24	KAA280.24	KAA320.24	KAA345.24	KAA365.24	KAA405.34	KAA430.34	KAA450.34
A			General Points																				
	1		Cooling Capacity	ton_R	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Power Consumption	kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Specific Power Consumption	kW/ton_R	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Co-Efficient of Performance (COP)	kW/kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		No. of Compressors	Nos.	→	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3
	6		No. of Individual Refrigerant Circuits	Nos.	→	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3
	7		Refrigerant																				
		i	Name	-	R134a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Quantity	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Technical Specifications	-	Refer ESP-18-19-003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Sound Pressure Level																				
		i	Noise Level	dB	Refer ESP-18-19-001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Measuring Standard	-	ANSI/AHRI Standard 575-2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Insulation Details																				
		i	Material	-	Closed Cell Nitrile Foam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Insulation Thickness on Various Parts	-	For Standard Temperature Range (LWT upto -10 0C)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Shell	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Tubesheet	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Pass Partition Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Head Cover	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Support Plate	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Compressor Motor Body	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Suction Line Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Liquid Line Assembly	mm	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Insulation Thickness on Various Parts	-	For Brine Temperature Range (LWT below -10 0C)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Shell	mm	51 (32+19)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Tubesheet	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Pass Partition Assembly	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Head Cover	mm	51 (32+19)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Evaporator Support Plate	mm	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Compressor Motor Body	mm	28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Suction Line Assembly	mm	28 (19+9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Liquid Line Assembly	mm	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Density	kg/m^3	76.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Thermal Conductivity	W/m.K	0.035 (at 0 0C Mean Temperature)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Standard	-	IS 14164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Adhesive	-	Blend of Synthetic Polymers and Synthetic Resin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Insulation Specifications	-	Refer ESP-18-19-004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		Vibration																				
		i	Vibration Level	mm/sec	Less than 1.5 mm/sec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Vibration control	-	Rubber Pads (Standard) / Spring Isolators (At an Additional Cost)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Standard	-	IS 12075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11		Painting Specification																				
		i	Paint Type	-	RAL 7035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		Overall Dimensions																				
		i	Approx. Length	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Approx. Width	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Approx. Height	mm	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Space Clearances Required																				
		i	Panel Side	mm	→	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
		ii	Opposite to Panel Side	mm	→	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
		iii	All Other Sides	mm	→	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
		iv	Overhead	mm	→	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
	14		Weight																				
		i	Approx. Shipping Weight	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Approx. Operating Weight	kg	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15		Cable Sizes																				
		i	Aluminum Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Copper Cable	-	Refer ESP-14-15-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B			Compressor Details																				
	1		Make	-	Kirloskar Chillers Private Limited																		
	2		Type / Description	-	Semi-Hermetic Twin Screw Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Model	-	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Drive	-	Direct Driven by Rotor Shaft																		
	5		Capacity Control Percentage	%	→	100-25%	100-25%	100-25%	100-25%	100-25%	100-25%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-12.5%	100-8.33%	100-8.33%	100-8.33%
	6		Type of Capacity Control	-	Stepless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Capacity Control Mechanism	-	Slide Valve Mechanism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Volumetric Ratio	-	Fixed Ratio (3.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Design and Test Parameters																				
		i	Design Pressure	bar	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Test Pressure (Pneumatic)	bar	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Design Temperature	^0C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Max. Allowable Discharge Temperature	^0C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		Bearings																				
		i	Types of Bearings	-	Roller Bearings - For Radial Load Angular Contact Roller Bearing - For Axial Load	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Material of Construction	-	Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Life of Bearing	Hours	50,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Class of Bearing	-	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	11		Lubrication																				
		i	Type	-	Lubrication by Differential Pressure Mechanism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Lubricating Oil	-	Synthetic Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Grade of Lubricating Oil	-	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Quantity	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		Compressor Components MOC																				
		i	Screw	-	Alloy Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Casing	-	Cast Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Shaft	-	Alloy Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Rotor	-	Aluminum Alloy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Physical Data of Compressor																				
		i	Screw Construction	-	Twin Screw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	No. of Lobes Male Rotor	Nos.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	No. of Lobes Female Rotor	Nos.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Male Rotor Diameter (mm)	mm	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Female Rotor Diameter (mm)	mm	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Driving Rotor	-	Male Rotor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14		Oil Filter																				
		i	Micron Rating	Micron	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Material of Construction	-	Resin Impregnated Fibres	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Quantity	Nos.	1 No. per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15		Copressor Isolation Type																				
		i	At Suction	-	Butterfly Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	At Discharge	-	Shut-off Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C			Compressor Motor Details																				
	1		Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Motor Type	-	Semi-Hermetic Squirrel Cage Induction Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Type of Duty	-	Continuous	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Motor Rating	kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Motor Speed (Synchronous)	RPM	3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Ingress Protection (IP)	-	NA, Being Semi-Hermetic Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		GD^2 of Rotor	-	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Whether SPDP or TEFC?	-	NA, Being Semi-Hermetic Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Power Supply Details (Standard)																				
		i	Supply Voltage	V	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Permissible Voltage Variation	%	±10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Frequency	Hz	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Permissible Frequency Variation	%	±3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Phase	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		Performance Indicators																				
		i	Motor Efficiency Class	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Motor Power	kW	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Motor Efficiency	-	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Power Factor	-	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Class of Insulation	-	Class F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11		Motor Cooling																				
		i	Motor Cooling Type	-	Refrigerant Cooled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Cooling Mechanism	-	Suction Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Temperature at full load	^0C	10 to 15 (At Normal Condtions)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		Current Details																				
		ii	Rated Load Current	A	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Full Load Current	A	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Inrush/Starting Current	A	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Locked Rotor Current	A	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Starting Torque	N.m	→	104	172	260	260	338	394	172 + 172	172 + 172	172 + 172	260 + 260	260 + 260	338 + 260	338 + 338	394 + 394	394 + 394	338 + 260 + 260	338 + 338 + 260	338 + 338 + 338
		vii	No Load Current	A	→	36.5	45.7	72.3	72.3	101	108	45.7 + 45.7	45.7 + 45.7	45.7 + 45.7	72.3 + 72.3	72.3 + 72.3	101 + 72.3	101 + 101	108 + 108	108 + 108	101 + 72.3 + 72.3	101 + 101 + 72.3	101 + 101 + 101
		viii	Acceleration Time to Reach Rated Speed	Sec	2 to 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Control Settings																				
		i	No. of Starts per Hour	Nos.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Time Between STOP to START	Sec	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Time Between START to START	Sec	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D			Power Supply (Standard-Chiller Icomer)																				
	1		Supply Voltage	V	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Permissible Voltage Variation	%	±10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Frequency	Hz	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Permissible Frequency Variation	%	±3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Phase	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Control Voltage	V	230 (Standard)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					110 (Special-Optional)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Supply Wire System	-	3 Phase - 4 Wire System (Standard)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					3 Phase - 3 Wire System (Special-Optional)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Fault Level at Busbar	kA	As per KCPL Standard Practice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E			Oil Separator Details																				
	1		Type	-	Dome Type (Built in Compressor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Internal Structure	-	Demister Arrangement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Method of Oil Separation	-	Differential Mass Between Oil and Gas, Impact with Surfaces, Filtering of Oil-Gas Mixture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Oil Heater Details																				
		i	Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Quantity	Nos.	→	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3
		iii	Power Supply	V	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Rating	W	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F			Oil Cooler	-	If Applicable	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1		Type	-	Plate Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	2		Quantity		One per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Heat Duty	kW	Depends on Working Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Method of Cooling	-	Refrigerant Cooled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Material of Construction	-	Brazzed PHE, Plate Material - SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Pressure Drop																							
		i	Oil Side	bar	less than 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Refrigerant Side	bar	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G			Evaporator Details																							
	1		Model	-	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Design Code	-	As per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Type	-	Shell and Tube DX Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Tube Side (Fluid)	-	Refrigerant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Shell Side (Fluid)	-	Chilled Water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Design Parameters																							
		i	Design Temperature (Refrigerant Side)	^{o}C	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Max. Operating Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Design Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Test pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Testing method (Refrigerant Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	No. of Passes (Refrigerant Side)	Nos.	→	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
		vii	Design Temperature (Water Side)	^{o}C	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Max. Operating Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ix	Design Pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		x	Test pressure (Water Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xi	Testing method (Water Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xii	No. of Passes (Water Side)	Nos.	Single Pass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xiii	Water Velocity	m/s	Less than 3 m/s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xiv	Inlet Pressure	bar	Depends on Site Piping Layout (Maximum Allowable - 9.4 bar)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xv	Evaporating Temperature	^{o}C	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Physical Data of Evaporator																							
		i	Overall Length of Evaporator	ft	→	6	6	9	9	9	9	9	9	9	9	12	12	12	12	12	12	12	12
		ii	Shell Diameter	inch	→	12	14	16	16	18	18	16	18	20	20	20	20	22	22	22	24	24	26
		iii	Shell Thickness	mm	→	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		iv	Approx. Shell Length	mm	→	1753	1753	2666	2666	2666	2666	2666	2666	2660	2660	3546	3546	3546	3546	3546	3534	3534	3534
		v	Material of Construction of Shell	-	Mild Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Material Standard of Shell	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Tube Type/ Nature of Tube Surface	-	Integral Helical Fins on the Outside Surface and Integral Helical Ridges on the Inside Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Tube Length	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ix	Tube Diameter	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		x	Tube Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xi	Material of Construction of Tube	-	Cu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xii	Material Standard of Tube	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xiii	Water Volume in Evaporator	Liter	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Water Box Details																							
		i	Type	-	Standard - On Shell Nozzle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Material	-	Mild Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Standard (Material)	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Nozzle size	NB	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	End connection	-	Standard - Victaulic Conn. (Flanged Conn. - Optional)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	MOC of Water Side Gasket	-	NAM AF 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	MOC of Refrigerant Side Gasket	-	NAM AF 159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Accessories Provided																							
		i	Pressure Relief Valve	-	Spring Loaded (For Safety Valve Set Pressure Refer ESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Drain/Vent Valves	Inch	Plugged Connection Provided (3/8" NPT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H			Condenser Coil Details																							
	1		Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Type	-	Fin and Tube Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Coil Arrangement	-	V' Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Tube Side (Fluid)	-	Refrigerant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Fin Side (Fluid)	-	Air	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Design Parameters																							
		i	Design Temperature (Refrigerant Side)	^{o}C	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Max. Operating Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Design Pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Test pressure (Refrigerant Side)	bar	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Testing method (Refrigerant Side)	-	Refer ESP-07-08-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Total Heat Rejection	ton_R	Formula - THR = Chiller Cooling Capacity + (3.51685/Input Power)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Condensing Temperature	^{o}C	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Degree of Subcooling	^{o}C	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Physical Structure																							
		i	No. of Passes (Refrigerant Side)	Nos.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	No. of Rows (Refrigerant Side)	Nos.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Coil Face Area	m^2	2.23875 per coil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Air Velocity	m/s	Average 3 m/s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Air Flow Rate	m^3/s	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	No. of Coils	Nos.	Refer KCPL Chiller Selection System Software	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Fin Density (No. of Fins/inch)	Fins/inch	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Tube Diameter	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ix	Tube Thickness	mm	Refer "HX Details" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		x	Material of Construction of Tubes	-	Cu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xi	Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xii	Material of Construction of Fins	-	Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Standard - No Coating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		xiii	Type of Coating	-	Hydrophilic Coating - Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Blygold Coating - Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xiv	Thickness of Layer (Coating)	mm	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		xv	Life of Fins with Coating	Years	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I			Condenser Fan Details																				
	1		Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Fan Speed	RPM	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		No. of Blades	Nos.	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Static Pressure	Pa	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Noise Level	dB	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Motor Details																				
		i	Motor Type	-	3 Phase Induction Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Starter Type	-	DOL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Class of Insulation	-	Class F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Motor Rating	kW	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Motor Current	A	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Supply Voltage	V	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Phase	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Frequency	Hz	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ix	Motor Protection Class	-	IP54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Material of Construction																				
		i	Fan Blades	-	Aluminum Alloy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Motor	-	Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Safety Guard	-	Steel Wire	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J			Adiabatic Kit Details																				
	1		Adiabatic Pad Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Material of Construction																				
		i	Adiabatic Pad	-	Cellulose Material	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Frame of Adiabatic Pad	-	Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Storage Tank	-	SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Fogger Pump Details																				
		i	Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Motor Type	-	3 Phase Induction Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Starter Type	-	DOL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Water Flow Rate	LPM	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Motor Rating	kW	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	Motor Current	A	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vii	Supply Voltage	V	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		viii	Phase	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ix	Frequency	Hz	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Filter Details	-	4-Stage Filter Unit with Filter Cartridge																		
K			Chiller Base Frame Details																				
	1		Material	-	→	GI	GI	GI	GI	GI	GI	GI	GI	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
	2		Method and details of construction OR Nature and joints used-folded/Welded /Bolted	-	Welded Bottom Frame and Remaining Components are Bolted with Bottom Frame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Finish - Hot Dip Galvanised, Corrosion Resistant etc.	-	Spray Galvanising for MS Material NA for GI Material (Coat Base frame and Casing with a Corrosion-Resistant Coating Capable of withstanding a 1000 hour Salt-Spray Test According to ASTM B117)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L			Suction Line																				
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Isolation Valve	-	Butterfly Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Material of Construction	-	Carbon Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Angle Valve	-	Provided on Suction Line For Service Purpose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M			Discharge Line																				
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Isolation Valve	-	Shut-off Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Material of Construction	-	Carbon Steel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Skin Type Thermowell	-	Provided on Discharge Line For Discharge Temp. Sensor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N			Liquid Line																				
	1		Design Code	-	ASME B31.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Expansion Valve																				
		i	Type	-	Electronic Expansion Valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Make	-	Kirloskar Approved Vendor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Quantity		→	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3
		iv	Sight Glass	-	Inbuilt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	Moisture Indicator	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Filter Drier	-	Provided	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Material of Construction	-	Copper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Material Standard	-	Refer "MOC" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O			Desuperheater																				
	1		Type	-	Plate Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Quantity		One per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Operating Conditions																				
		i	Heat Duty	kW	Depends on Working Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Hot Water Inlet Temperaure	^0C	Depends on Site Conditions (Max. Possible - 50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Hot Water Outlet Temperaure	^0C	Max. Possible - 55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Hot Water Flow Rate	L/s	Depends on Working Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Material of Construction	-	Brazzed PHE, Plate Material - SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Water Side End connection Details																				
			Water Inlet Connection	NB	Consult with Engineering Department on Case to Case Basis																		

			Water Outlet Connection	NB	Consult with Engineering Department on Case to Case Basis																		
	6		Pressure Drop																				
		i	Water Side	bar	less than 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Refrigerant Side	bar	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P			Economizer																				
	1		Type	-	Plate Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Quantity		One per Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Heat Duty	kW	Proprietary Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Material of Construction	-	Brazzed PHE, Plate Material - SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q			Starter and Control Panel																				
	1		Panel Enclosure	-	Starter and Control Panel Integrated in Single Fabricated Box	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Make	-	Kirloskar Approved Vendor													-	-	-	-	-	-
	3		Material of Enclosure	-	Fabricated Enclosure - GI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Thickness of Enclosure	mm	Fabricated Enclosure Load Bearing Member - 2 mm Non-Load Bearing Member - 1.6 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		Ingress Protection (IP)	-	Consult with Engineering Department on Case to Case Basis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		Painting Specification																				
		i	Paint Type	-	RAL 7035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Standard	-	Coating as per KCPL Standards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Mounting Arrangement	-	Mounted on Chiller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Type of Starter	-	Star-Delta Starter (Soft Starter / VFD - Optional)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Type of Isolation	-	MCCB in case of Star-Delta Starter FSD in case of Soft Starter Consult with Engineering Department on Case to Case Basis in case of VFD Starter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		Type of Protection	-	MCCB in case of Star-Delta Starter FSD in case of Soft Starter Consult with Engineering Department on Case to Case Basis in case of VFD Starter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11		Switchgear Make	-	Siemens	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		Electrical and Control Cables	-	Power - PVC Insulated Single Core (Vtg. Grade 1.1 kV) Control- PVC Insulated Single Core, Multicore Cable (Vtg. Grade 1.1 kV) Signal- Shielded Cable	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Optional Features																				
		i	Phase Indicating Lamps	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ii	Hooter	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iii	Energymeter	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		iv	Door Handle	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		v	LOTO Arrangement	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		vi	VFD for Condenser Fans	-	Special-Optional	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R			Controller																				
	1		Make	-	Refer "Make List" Sheet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2		Transmitters	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3		Oil Level Switch	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4		Oil Level Failure Trip	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5		LP Switch and Gauge	-	No, Controller Program will Take Care of Low Pressure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		HP Switch and Gauge	-	No, Controller Program will Take Care of High Pressure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7		Chilled Water Flow Failure	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8		Cooling Water Flow Failure	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9		Reverse Rotor Protection	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10		High/Low Voltage Trip	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11		Low Current Trip (Current Based-Analog)	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12		High Current Trip (Current Based-Analog)	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13		Phase Failure/Reverse Phasing Trip	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14		Earth Fault Trip	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15		Communication Through RS232/RS485	-	RS485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16		Display of Microprocessor	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17		Type of Display	-	PGD0 Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18		Remote Monitoring Facility	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19		Output to DCS	-	Applicable (Only if RS485 is Available)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-