Heat Exchanger Specification Sheet

1	CLIENT NIT RAIPUR CLIENTS'S REF NO. C05/2020						JOB NO. XYZ		
2	PLANT LOCATION RAIPUR						DO	CUMENT NO. XYZ	
3	SERVICE						ITE	M NO. DC56	
4	SIZE TYPE 1-2				2 STHE		NO. OF UNITS: 3		
5	SHELLS PER UNIT CONNCECTED IN			SERIES		1 PARALLEL: 0			
6	SURFACE PER UNIT								
7									
8	PERFORMANCE OF FLUID ALLOCATION				SHELL S	SIDE	TUBE SIDE		
9	FLUID NAME			56° API GASOLINE			42° API KEROSENE		
10	FOTAL FLUID ENTERING 1b/h			20000			83571		
11	56 ° API GASOLINE lb/h		20000						
12	42º API KEROSENE		lb/h		-		83571		
13	TEMPERATURE (IN/OUT)			250 / 120			85 / 120		
14	Bubble / Dew point		°F		-		05/120		
	DENSITY VAPOUR/LIQUI								
	VISCOSITY		cP	At T _c = 168 °F At T _w = 124 °F		At $T_c = 98 ^{\circ}F$ At $T_c = 98 ^{\circ}F$	T _w = 107 °F		
	SPECIFIC HEAT		BTU/(lb-F)	$\mu = 0.40$	6 cP μ	= 0.5P	μ = 1.2 cP μ =	1. 1cP	
		P\$7		0.53		1			
	THERMAL CONDUCTIVITY BTU/(ft-h-F)			0.086		0.081			
19		PRESSURE (abs) psi							
	MASS VELOCITY lb/(hr.ft²)			119760.47		781037.38			
	PRESSURE DROP, allow./ca		psi	10 / 0.5863		10 / 5.74			
	FOULING RESISTANCE (MIN) ft²-h-F/BTU			0.002					
23 HEAT EXCHANGED BTU/h 1404000 L MTD CORRECTED (°F) 24 TRANSFER RATE - SERVICE DIRTY 75.48 CLEAN 87.54							87.54 61.54	BTU/0	(h-ft²-F)
		CON							(,
		CON	STRUCTION						
		SHE	LL					SKETCH	
		SHE	SHELL SIDE		Т	UBE SIDE		SKETCH	
25	DESIGN/TEST/VACCUM PRES		SHELL SIDE		T 10	UBE SIDE	^	SKETCH	
25 26	DESIGN/TEST/VACCUM PRES DESIGN TEMPERATURE		SHELL SIDE			UBE SIDE	1	SKETCH	
		SSURE psi	SHELL SIDE			UBE SIDE	^	SKETCH	
26	DESIGN TEMPERATURE	SSURE psi °F IELL	SHELL SIDE		10	UBE SIDE	^	SKETCH	
26 27 28	DESIGN TEMPERATURE NUMBER PASSES PER SH	SSURE psi °F IELL	SHELL SIDE 10		10	UBE SIDE		SKETCH	
26 27 28	DESIGN TEMPERATURE NUMBER PASSES PER SH CORROSION ALLOWANG	SSURE psi °F IELL CE in	SHELL SIDE 10	-	10	UBE SIDE		SKETCH	
26 27 28	DESIGN TEMPERATURE NUMBER PASSES PER SH CORROSION ALLOWANG	SSURE psi °F IELL CE in	SHELL SIDE 10	-	10	UBE SIDE	Sketch: Shell a	SKETCH ond tube heat exchanger	
26 27 28 29	DESIGN TEMPERATURE NUMBER PASSES PER SH CORROSION ALLOWANG	SSURE psi °F IELL CE in	SHELL SIDE 10	-	10	UBE SIDE	Sketch: Shell a		
26 27 28 29	DESIGN TEMPERATURE NUMBER PASSES PER SH CORROSION ALLOWANG CONNECTIONS	SSURE psi °F IELL CE in	SHELL SIDE 10	-	10	UBE SIDE	Sketch: Shell a		
26 27 28 29 30 31 32	DESIGN TEMPERATURE NUMBER PASSES PER SH CORROSION ALLOWANG CONNECTIONS SIZE/RATING Out NOMINAL TUBES NO.	SSURE psi °F IELL CE in in	SHELL SIDE 10 1 () () () () () () () () ()		10 4 4 NGTH: 10	/ . / . / . / . / . / PITCH:	1 in T	nd tube heat exchanger UBE PATTERN: SQUARE PITCH	
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