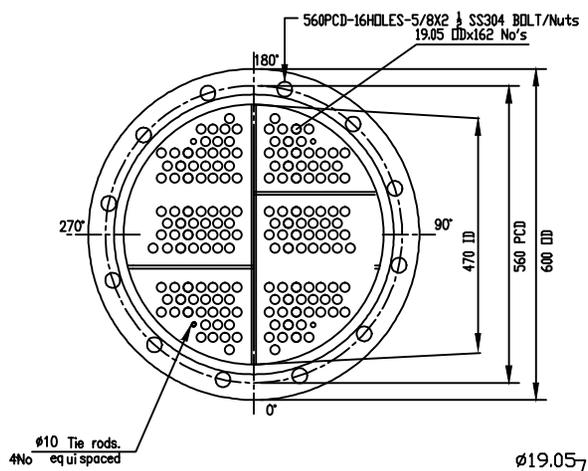
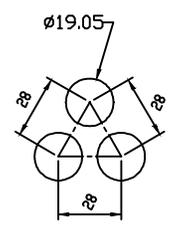


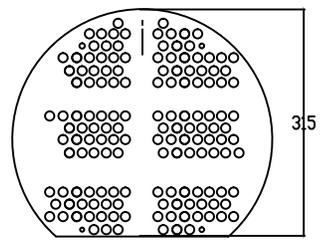
ORIENTATION OF TUBESHEET  
**VIEW-YY**



ORIENTATION OF TUBESHEET  
**VIEW-XX**



**PITCH DETAIL**



**DETAILS OF BAFFLE PLATES**

- Note:**
1. QHeat Load-143934
  2. Mass Flow rate-vapour Load -544Kg/Hr
  3. Mass Flow rate-Condensable Load-1Kg/Hr
  4. Pressure drop at shell side-<0.05
  5. Pressure drop at shell side-<0.5
  6. Earthing Boss are provided on saddles-2No's
  7. Outside Mirror finish 240 Grit

CLIENT	M/s MALLADI DRUGS&PHARMACEUTICALS LIMITED
PROJECT	
LOCATION	REGUNTA, THIRUPATHI
01 TITLE	14.OMSQ SS316 HEATEXCHANGER(H)(1-6 PASS)
02 SERVICE	
03 CAPACITY (HTA)	14.0MSQ(Based on tube OD)

DESIGN DATA		
CODE OF FABRICATION:	TEMA CLASS 'B'	
DESCRIPTION	SHELL SIDE	TUBE SIDE
04 DESIGN PRESSURE (kg/cm2.g)	4.0	6.0
05 WORKING PRESSURE(kg/Cm2.g)	Under Vacuum(500mmHg)	3.0
06 WORKING TEMPERATURE(°C)	-20 TO 55	-20 TO 52
07 DESIGN TEMPERATURE (°C)	-20 TO 150	-20 TO 150
08 CORROSION ALLOWANCE mm	NILL	1
09 RADIOGRAPHY	10% SHELL	100% DISH
10 HYDROTEST PRESSURE (kg/cm2.g)	5.2	7.8
FLUID	UTILITY(STEAM CONDENSATE)	PROCESS(FEED)
NO.OF PASSES	1	6

MATERIAL OF CONSTRUCTION			
DESCRIPTION	SIZE	MOC	REMARKS
11 SHELL	470 IDX1500 LongX5T	SS316	
12 BONNET SHELL	470 IDX200LongX5T	SS304	
13 TUBESHEET	600 ODX20T	SS316	
14 TUBES-162NO'S	OD19.05x1500Lx14Swg.	SS316	SEAMLESS
15 GASKET	SUITABLE	TEFLON ENVELOPED NON ASBESTOS	
16 BAFFLES-4No.	30% CUT,6thk	SS316	
17 PARTITION PLATE	6thk	SS304	
18 BONNET FLANGES	600 ODX20T	SS304	
19 SADDLE SUPPORTS	2No.	SS304	

NOZZLE SCHEDULE							
Sl.	NB SIZE	NOZZLE SERVICE	Proj.	PR.RATING	PIPE	FLANGE	REMARKS
N1	250	VAPOUR INLET	150	ASA 150	A312 TP316	SS316	
N2	40	CONDENSATE OUTLET	150	ASA 150	A312 TP316	SS316	
N3	150	VENT ON SHELL	150	ASA 150	A312 TP316	SS316	
N4	25	VENT ON BONNET	150	ASA 150	A312 TPSS304	SS304	
N5	80	WATER INLET	150	ASA 150	A312 TPSS304	SS304	
N6	80	WATER OUTLET	150	ASA 150	A312 TPSS304	SS304	