

# SALES ORDER REQUISITION & SUPPLY OF REBOILERS

QRN No.	QRN:8267 R2
Type.	
Job No.	SO – 677
Date	05/09/2022
Rev	R0

## **ChemDist Process Solutions Pvt Ltd**

Address:

Plot No J-174/1, J-Block,

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#### 1.0 SCOPE OF SUPPLY:

### Our scope of supply includes Manufacturing & Supply of below listed items:

Sr No	Tag No	MFR Sr No	Qty
1	HE - 30	CDPS-677-E1989-2022	1
2	HE – 35	CDPS-677-E1990-2022	1
3	HE – 75	CDPS-677-E1991-2022	1

1. KETTLE RE-BOILER HE-30								
	Process Data Sheet							
	Shell Side Tube Side							
Design Pressure (Kg	/cm² g)	Shell Side – 3.5		Tube Side – 6				
Design Temperature	e (Deg C)	Shell Side – 200		Tube Side – 200				
		CONSTRUCTION DATA						
Gross Heat transfer	area – 30 m²,	Two pass on Tube Side						
Kettle Details -								
Kettel Shell	12 mm 7	Thk X 1750 mm ID X 3500 mm Long	Qty.	1 No.				
МОС	IS 2062	E 250 BR						
Dish End	2:1 Ellip	soidal	Thk	12 mm				
MOC	IS 2062	E 250 BR	Qty.	2 Nos.				
Bonnet Shell	8 mm Th	nk X 500 mm ID X (350 mm F) Long	Thk.	8 mm				
МОС	IS 2062	IS 2062 E 250 BR		1 Nos.				
Dish End	2:1 Ellip	soidal	Thk	8 mm				
МОС	IS 2062	E 250 BR	Qty.	1 Nos.				



Tube Sheet Details -			
OD	650 mm OD	Thk	28 mm
МОС	MS	Qty.	1 Nos.
Tube Details -		L	
Туре	Smooth	MOC	CS
Size	25.4 mm OD	Thk	2.11 mm thk
Length	3000 mm	QTY.	126
Body flanges -			
OD	650 mm OD	Thk.	38 mm
Qty.	2 Nos.	мос	IS 2062
Gasket for body flange	3 mm PTFE		
Support Plate	Qty – 2 nos.	МОС	IS 2062 E250 BR
Tie rod	Qty – 6 nos	МОС	IS 2062 E250 BR
Saddle Support	Qty – 2 Nos.	МОС	IS 2062 E250 BR
Lifting Lug MOC	Qty – 2 Nos.	МОС	IS 2062 E250 BR
	Tube Side	Shell Sid	de
Nozzle Pipe MOC	MS	MS	
Nozzle Flange MOC	MS	MS	

## **NOZZLE DETAILS:**

No.	Nozzle	Service	Size (NB)	Sch/Thk	Qty.	Туре
1	N1	FEED FROM COLUMN	300	12mm Thk	1	SORF #150
2	N1A	FEED FROM COLUMN FOR DIP PIPE	150	SCH 40	1	SORF #150
3	N3	TEMPERATURE INDICATOR	100	SCH 40	1	SORF #150
4	N4	LEVEL INDICATOR (RADAR TYPE)	150	SCH 40	1	SORF #150
5	N7	TUBE SIDE CONDENSATE OUTLET	40	SCH 40	1	SORF #150
6	N8	TUBE SIDE STEAM INLET	100	SCH 40	1	SORF #150
7	LG1/2	LEVEL GAUGE (GLASS TYPE) TUBE	150	SCH 80	1	SORF #150



8	N12	PRESSURE INDICATOR/TRANSMITTER	150	SCH 80	1	SORF #150
9	N13	LIQUID OUTLET	150	SCH 40	1	SORF #150
10	N14 A/B	LIQUID DRAIN	150	SCH 40	1	SORF #150
11	N15	VAPOR RETURN TO COLUMN	400	12 mm Thk	1	SORF #150
12	N16	PRESSURE EQUILISATION LINE/FRESH BENZENE INLET	100	SCH 40	1	SORF #150
13	N17	LOW LEVEL SWITCH	150	SCH 40	1	SORF #150
14	М	MANHOLE + B.F. WITH DAVIT	550	12 mm Thk	1	SORF #150



2. KETTLE RE-BOILE	R HE-35			
		Process Data Sheet		
		Shell Side		Tube Side
Design Pressure (Kg/cm <sup>2</sup>	²g)	Shell Side – 3.5		Tube Side – 6
Design Temperature (De	g C)	Shell Side – 200		Tube Side – 200
		CONSTRUCTION DATA		
Gross Heat transfer area	-35 m²,	Two pass on Tube Side		
Kettle Details -				
Kettel Shell	12 mm 1	Thk X 1820 mm ID X 3500 mm Long	Qty.	1 No.
MOC	IS 2062 I	E 250 BR		
Dish End	2:1 Ellips	soidal	Thk	12 mm
МОС	IS 2062 I	E 250 BR	Qty.	2 Nos.
Bonnet Shell	8 mm Th	nk X 520 mm ID X (350 mm F) Long	Thk.	8 mm
МОС	IS 2062 I	IS 2062 E 250 BR		1 Nos.
Dish End	2:1 Ellips	soidal	Thk	8 mm
МОС	IS 2062 I	E 250 BR	Qty.	1 Nos.
Tube Sheet Details -	•		•	
OD	670 mm	n OD	Thk	28 mm
МОС	MS		Qty.	1 Nos.
Tube Details -	T			
Туре	Smooth		МОС	CS
Size	25.4 mm	n OD	Thk	2.11 mm thk
Length	3000 mr	n	QTY.	148
Body flanges -				
OD	670 mm	n OD	Thk.	38 mm
Qty.	2 Nos.		МОС	IS 2062
Gasket for body flange	3 mm P1	TFE		
Support Plate	Qty – 2 r	nos.	MOC	IS 2062 E250 BR
Tie rod	Qty – 6 r	nos	мос	IS 2062 E250 BR



Saddle Support	Qty – 2 Nos.	MOC	IS 2062 E250 BR
Lifting Lug MOC	Qty – 2 Nos.	МОС	IS 2062 E250 BR
	Tube Side	Shell Side	
Nozzle Pipe MOC	MS	MS	
Nozzle Flange MOC	MS	MS	

# **NOZZLE DETAILS:**

No.	Nozzle	Service	Size (NB)	Sch/Thk	Qty.	Туре
1	N1	FEED FROM COLUMN	300	12mm Thk	1	SORF #150
2	N1A	FEED FROM COLUMN FOR DIP PIPE	150	SCH 40	1	SORF #150
3	N3	TEMPERATURE INDICATOR	100	SCH 40	1	SORF #150
4	N4	LEVEL INDICATOR (RADAR TYPE)	150	SCH 40	1	SORF #150
5	N7	TUBE SIDE CONDENSATE OUTLET	40	SCH 40	1	SORF #150
6	N8	TUBE SIDE STEAM INLET	100	SCH 40	1	SORF #150
7	LG1/2	LEVEL GAUGE (GLASS TYPE) TUBE	150	SCH 80	1	SORF #150
8	N12	PRESSURE INDICATOR/TRANSMITTER	150	SCH 80	1	SORF #150
9	N13	LIQUID OUTLET	150	SCH 40	1	SORF #150
10	N14 A/B	LIQUID DRAIN	150	SCH 40	1	SORF #150
11	N15	VAPOR RETURN TO COLUMN	400	12 mm Thk	1	SORF #150
12	N16	PRESSURE EQUILISATION LINE/FRESH BENZENE INLET	100	SCH 40	1	SORF #150
13	N17	LOW LEVEL SWITCH	150	SCH 40	1	SORF #150
14	М	MANHOLE + B.F. WITH DAVIT	550	12 mm Thk	1	SORF #150



3. KETTLE RE-BOILE	R HE-75			
		Process Data Sheet		
		Shell Side		Tube Side
Design Pressure (Kg/cm <sup>2</sup>	g)	Shell Side – 3.5		Tube Side – 6
Design Temperature (De	g C)	Shell Side – 200		Tube Side – 200
		CONSTRUCTION DATA		
Gross Heat transfer area	– 75 m²,	Two pass on Tube Side		
Kettle Details -				
Kettel Shell	12 mm T	Thk X 2300mm ID X 3500 mm Long	Qty.	1 No.
мос	IS 2062 I	E 250 BR	•	
Dish End	2:1 Ellips	soidal	Thk	12 mm
МОС	IS 2062 I	E 250 BR	Qty.	2 Nos.
Bonnet Shell	8 mm Th	nk X 710 mm ID X (350 mm F) Long	Thk.	8 mm
МОС	IS 2062 I	E 250 BR	Qty.	1 Nos.
Dish End	2:1 Ellips	2:1 Ellipsoidal		8 mm
МОС	IS 2062 I	E 250 BR	Qty.	1 Nos.
Tube Sheet Details -				
OD	860 mm	OD	Thk	32 mm
МОС	MS		Qty.	1 Nos.
Tube Details -				
Туре	Smooth		МОС	CS
Size	25.4 mm	n OD	Thk	2.11 mm thk
Length	3000 mr	n	QTY.	316
Body flanges -				
OD	860 mm	1 OD	Thk.	45 mm
Qty.	2 Nos.		МОС	IS 2062
Gasket for body flange	3 mm PT	FE		
Support Plate	Qty – 2 r	nos.	MOC	IS 2062 E250 BR
Tie rod	Qty – 6 r	nos	МОС	IS 2062 E250 BR



Saddle Support	Qty – 2 Nos.	MOC	IS 2062 E250 BR
Lifting Lug MOC	Qty – 2 Nos.	МОС	IS 2062 E250 BR
	Tube Side	Shell Side	
Nozzle Pipe MOC	MS	MS	
Nozzle Flange MOC	MS	MS	

# **NOZZLE DETAILS:**

No.	Nozzle	Service	Size (NB)	Sch/Thk	Qty.	Туре
1	N1	FEED FROM COLUMN	300	12mm Thk	1	SORF #150
2	N1A	FEED FROM COLUMN FOR DIP PIPE	150	SCH 40	1	SORF #150
3	N3	TEMPERATURE INDICATOR	100	SCH 40	1	SORF #150
4	N4	LEVEL INDICATOR (RADAR TYPE)	150	SCH 40	1	SORF #150
5	N7	TUBE SIDE CONDENSATE OUTLET	40	SCH 40	1	SORF #150
6	N8	TUBE SIDE STEAM INLET	100	SCH 40	1	SORF #150
7	LG1/2	LEVEL GAUGE (GLASS TYPE) TUBE	150	SCH 80	1	SORF #150
8	N12	PRESSURE INDICATOR/TRANSMITTER	150	SCH 80	1	SORF #150
9	N13	LIQUID OUTLET	150	SCH 40	1	SORF #150
10	N14 A/B	LIQUID DRAIN	150	SCH 40	1	SORF #150
11	N15	VAPOR RETURN TO COLUMN	400	12 mm Thk	1	SORF #150
12	N16	PRESSURE EQUILISATION LINE/FRESH BENZENE INLET	100	SCH 40	1	SORF #150
13	N17	LOW LEVEL SWITCH	150	SCH 40	1	SORF #150
14	М	MANHOLE + B.F. WITH DAVIT	550	12 mm Thk	1	SORF #150



#### Notes:

- 1. All tag nos GAD to be submitted in one week.
- 2. Weir plate to be considered after U tube bundle about 60% of shell diameter.
- 3. Tubes Make Remi, Scoda, Amba, and Ratnadeep.
- 4. Drawing enclosed with SO is for reference only.



Delivery Date (Ex-works)	HE - 30 & HE - 35 by 14 <sup>th</sup> October 2022 (Ex-works) HE - 75 by 29 <sup>th</sup> October 2022 (Ex-works)
Internal Inspection Report	Required
TPI	YES (By client)
Remark/Instruction	Test Certificates Required as per CDPS STD QAP

Issued By	Signature	Received By	Signature
Marketing		Design/Dwg	
		Manufacturing	
		Purchase	

		Signature	
Prepared By	NB		
Checked By	NB		
Approved By	TW		