

**SALES ORDER REQUISITION & SUPPLY COLUMN.**

**ChemDist Process Solutions Pvt. Ltd.**

QRN No.	QRN-6765/R5
Client	Yellow Stone Chemical Ltd.
Type.	Manufacturing
Job No.	SO-530
Date	05/04/2022
Rev	R0

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**1. SCOPE OF SUPPLY :**

- Equipment Manufacturing Sr. No. Column C-02 CDPS-634-C1878-2022
- Equipment Manufacturing Sr. No. Column C-09 CDPS-634-C1879-2022
- Equipment Manufacturing Sr. No. Column C-16 CDPS-634-C1880-2022

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

1. Description	Tag No. C-02
<b>Process Details</b>	
Design Pressure (kg/cm <sup>2</sup> g)	2
Design Temperature (Deg C)	120
Shell/End Radiography	spot + All T Joints/Full
<b>Vessel Details</b>	
Shell Diameter (ID)	1200 mm
Shell Height (Bottom TL to Top Flange end)	~13538 mm
Top/Bottom	10% Torispherical
Shell Thickness	5 mm
Top/Bottom end Thickness	5 Thk mm
Body Flanges	1400mm X 70 Thk mm X 10 Nos.
Type of Support	Skirt Support
Shell MOC	SS 316
Dish ends MOC	SS 316
Body Flange MOC	MS with SS 316 Lining
Reinforcement Pad MOC	SS 316
Gasket (Body Flange)	champion Style 160 3 mm thk
Nozzles pipe MOC	Up to 150NB- SA312 TP316 SMLS & above 150NB- SS316 ERW Fabricated (Fabricated with 100 % radiography)
Nozzle Flange MOC	SS 316

Support MOC	MS
Qty	1 No.

#### Nozzle Details:

NO.	SERVICE	Qty	NOZZLE PIPE		End Connection	
			NB	SCH	Type	Class
1	N - 50	1	40	SCH 40S	SORF	150#
2	N - 51	1	100	SCH 10S	SORF	150#
3	N - 52	1	80	SCH 40S	SORF	150#
4	N - 53	1	50	SCH 40S	SORF	150#
5	N - 54	1	80	SCH 40S	SORF	150#
6	N - 55	1	150	SCH 10S	SORF	150#
7	N - 56, N - 57	2	25	SCH 40S	SORF	150#
8	N - 58, N - 59	2	25	SCH 40S	SORF	150#
9	N - 60	1	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
10	N - 61	1	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
11	N - 62, N - 63	2	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
12	N - 64, N - 65	2	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
13	N - 66, N - 67	2	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
14	N - 68, N - 69	2	100	SCH 10S	SORF	150#
15	N - 70	1	40	SCH 40S	SORF	150#
16	N - 71, N - 72	2	80	SCH 40S	SORF	150#
17	N - 73, N - 74	2	50	SCH 40S	SORF	150#

<b>2. Description</b>	<b>Tag No. C-09</b>
<b>Process Details</b>	
Design Pressure (kg/cm <sup>2</sup> g)	1
Design Temperature (Deg C)	120
Shell/End Radiography	spot + All T Joints/Full
<b>Vessel Details</b>	
Shell Diameter (ID)	1200 mm
Shell Height (Bottom TL to Top Flange end)	~21428 mm
Top/Bottom	10% Torispherical
Shell Thickness	5 mm
Top/Bottom end Thickness	5 Thk mm
Body Flanges	1400mm X 70 Thk mm X 14 Nos.
Type of Support	Lug Support (8 Nos.)
Shell MOC	SS 316
Dish ends MOC	SS 316
Reinforcement Pad MOC	SS 316
Gasket (Body Flange)	champion Style 160 3 mm thk
Body Flange MOC	MS with SS 316 Lining
Nozzles pipe MOC	Up to 150NB- SA312 TP316 SMLS & above 150NB- SS316 ERW Fabricated (Fabricated with 100 % radiography)
Nozzle Flange MOC	SS 316
Support MOC	MS
Qty	1 No.

**Nozzle Details:**

NO.	SERVICE	Qty	NOZZLE PIPE		End Connection	
			NB	SCH	Type	Class
1	N-50	1	80	SCH 40S	SORF	150#
2	N-51	1	200	SCH 10S	SORF	150#
3	N-52	1	25	SCH 40S	SORF	150#
4	N-53	1	150	SCH 10S	SORF	150#
5	N-54	1	80	SCH 40S	SORF	150#
6	N-55	1	150	SCH 10S	SORF	150#
7	N-56	1	80	SCH 40S	SORF	150#
8	N-57	1	150	SCH 10S	SORF	150#
9	N-58	1	80	SCH 40S	SORF	150#
10	N-59	1	100	SCH 10S	SORF	150#
11	N-60	1	80	SCH 40S	SORF	150#
12	N-61	1	150	SCH 10S	SORF	150#
13	N-62	1	80	SCH 40S	SORF	150#
14	N-63	1	50	SCH 40S	SORF	150#
15	N-64	1	100	SCH 10S	SORF	150#
16	N-65, N-66	2	25	SCH 40S	SORF	150#
17	N-67, N-68	2	25	SCH 40S	SORF	150#
18	N-69, N-70	2	25	SCH 40S	SORF	150#
19	N-71	1	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
20	N-72	1	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
21	N-73	1	25 NB & Thermo well (1/2" NPT F)	SCH 40S	SORF	150#
22	N-74, N-86	2	25	SCH 40S	SORF	150#
23	N-87	1	50	SCH 40S	SORF	150#
24	N-88	1	80	SCH 40S	SORF	150#
25	N-89	1	25	SCH 40S	SORF	150#

3. Description	Tag No. C-16
<b>Process Details</b>	
Design Pressure (kg/cm <sup>2</sup> g)	3.5
Design Temperature (Deg C)	180
Shell/End Radiography	spot + All T Joints/Full
<b>Vessel Details</b>	
Shell Diameter (ID)	1200 mm
Shell Height (Bottom TL to Top Flange end)	~16000 mm
Top/Bottom	10% Torispherical
Shell Thickness	5 mm
Top/Bottom end Thickness	5 Thk mm
Body Flanges	1400mm X 70 Thk mm X 10 Nos.
Type of Support	Lug Supports; Qty – 8 nos.
Shell MOC	SS 316
Dish ends MOC	SS 316
Body Flange MOC	MS with SS 316 Lining
Reinforcement Pad MOC	SS 316
Gasket (Body Flange)	champion Style 160 3 mm thk
Nozzles pipe MOC	Up to 150NB- SA312 TP316L SMLS & above 150NB– SS316L ERW Fabricated (Fabricated with 100 % radiography)
Nozzle Flange MOC	SS 316
Support MOC	MS
Qty	1 No.

### Nozzle Details:

NOZZLE NO.	SERVICE	Qty	NOZZLE PIPE		End Connection	
			NB	SCH	Type	Class
1	N-50	1	80	SCH 40S	SORF	150#
2	N-51	1	150	SCH 10S	SORF	150#
3	N-52	1	250	SCH 10S	SORF	150#
4	N-53	1	100	SCH 10S	SORF	150#
5	N-54	1	150	SCH 10S	SORF	150#
6	N-55	1	150	SCH 10S	SORF	150#
7	N-56	1	80	SCH 40S	SORF	150#
8	N-57, N- 58, N-59, N-60	4	25	SCH 40S	SORF	150#
9	N-61 TO N-66	2	25NB (Thermowell Flanged end with 1/2" NPT	SCH 40S	SORF	150#

### Note:

1 All Body flanges are SORF.



### Notes:

1. All '\*' mark shall be confirmed by design team.
2. In this reactor, agitator not in our scope.
3. All thicknesses shall be confirmed by design team.

Delivery Date (FOR-Site)	28 <sup>th</sup> JUNE 2022 (FOR)
Internal Inspection Report	Required
TPI	YES
Remark/Instruction	Test Certificates Required as per QAP

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

	Signature		
Prepared By	NMB		
Checked By	NMB		
Approved By	TW		