

**SALES ORDER REQUISITION & SUPPLY
Reactor.**

ChemDist Process Solutions Pvt. Ltd.

| | |
|---------|---------------|
| QRN No. | QRN-8178/R3 |
| Client | UPL |
| Type. | Manufacturing |
| Job No. | SO-673 |
| Date | 19/08/2022 |
| Rev | R0 |

INDIA Address:
Plot No J-174/1, J-Block,
PCNTDA, Bhosari, Pune-411026, Maharashtra
Landline: 020-68143308
Email: info@chemdist.in

- EQUIPMENT MANUFACTURING SR. NO. Column:5418 CDPS-673-C1959-2022**

SCOPE OF SUPPLY:

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

| 1. Description | SCRUBBER COLUMN (SC-5418) |
|--|---|
| Process Details | |
| Design Pressure (kg/cm ² g) | FV/3.5 |
| Design Temperature (Deg C) | 250 |
| Shell/End Radiography | Spot + All T Joints/Full (100%) |
| Shell Diameter (ID) | 400 mm ID |
| Shell Height (Bottom TL to Top Flange end) | ~11122 |
| Top | 10% Torispherical |
| Shell Thickness | 5 mm |
| Dishend Thickness | 6 mm |
| packing Support Ring | 40mm Width X 5 mm Thk X2 Nos. |
| Body Flanges | 596.5 OD X36+3 mm THK X Qty – 6 nos. |
| Type of Support | Lug Support Qty- 2 Nos. Guide Support Qty.; 2 Nos. |
| Shell MOC | SS 316L |
| Dish ends MOC | SS 316L |
| Body Flange MOC | CS+ SS 316 Lining |
| Stiffeners | SS 316L |
| Nozzles pipe MOC | SS 316L |
| Nozzle Flange MOC | Upto 150 NB in SS 316 above 150 NB CS+ SS316 Lining |
| Support Internal MOC | SS 316L |
| Support External MOC | MS |

| | |
|-----|-------|
| Qty | 1 No. |
|-----|-------|

| Note | |
|------|--|
| 1 | Hydro test shall be carried out by service gasket only. |
| 2 | Column Template Not in CDPS Scope. |
| 2 | Any tray and other Internal assembly not in CDPS Scope which not mentioned in our offer. |

Nozzle Details:

| NOZZLE NO. | SERVICE | Qty | NOZZLE PIPE | | End Connection | |
|------------|---------------------------|-----|-------------|---------|----------------|-------|
| | | | NB | SCH | Type | Class |
| N1 | Vapour Inlet From Kettle | 1 | 150 | SCH 20S | SORF | 150# |
| N2 | Liquid Outlet from Column | 1 | 80 | SCH 80S | SORF | 150# |
| N3 | Vapour Outlet from Column | 1 | 150 | SCH 20S | SORF | 150# |
| N6 A-C | TT | 3 | 40 X 22 | SCH 80S | SORF | 150# |
| N7 A-B | PT | 2 | 50 | SCH 80S | SORF | 150# |
| N9 | Reflux (Dip Pipe) | 1 | 80X 40 | SCH 80S | SORF | 150# |
| LG 1/3 | LG | 3 | 80 | - | SORF | 150# |
| SG 1/3 | SG | 3 | 80 | - | SORF | 150# |
| H1-H4 | Handhole With Blind | 4 | 200 | SCH 20S | SORF | 150# |



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) | (FOR) (29 th Sep 2022) |
| 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 |