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UMA PHARMATECH MACHINERY

The Feature Of Biotech

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VESSEL & AGITATOR SPECIFICATION SHEET

| | | |
|---|------|----------|
| Medel: UPM-22-1500L-IHF-30kw-ICH-ICO-ph-PLC-NI-154R-3hp-NFLP-SMS-50mm | Date | 16-01-22 |
|---|------|----------|

| | | | |
|---|--|------|-----------|
| Customer | | | |
| ITEM | Fermenter 1500L(Inbuilt Heater In Vessel)(30kw) With 1tr Chiller, 3hp Compressor, Ph Controlling & PLC Controlling | | |
| Contact | | | |
| Project | | | |
| Email | | | |
| Vessel Details | F-2021-22 | | |
| Total Volume(Litter) | 1500 | | |
| Diameter(mm) | 1100 | | |
| Shell Straight Height(mm) | 1570 | | |
| Shell(cylindrical) | 5mm thk ss 316 | | |
| Jacket | 5mm thk SS 304 | | |
| Top | Dished end with Flange End Mounting(Common For Agitator and manhole) | | |
| Bottom | Dished end(10% torispherical) | | |
| Baffle Recommendation(Off Wall) | 4 Nos @ 90 Degree | | |
| Separate manhole | no | | |
| Front Glass | 100 mm | | |
| Inner Finish | Mirror Finish | | |
| Outer finish | Matt Finish | | |
| Nozzles-Standard suitable Tc Ferrule | | | |
| Pressure Guage | 1/4 coupling | | |
| Safety valve | 1/2 coupling | | |
| Top glass | 100mm -2 nos | | |
| 50 Tc Connection | 2 nos | | |
| 35 tc connection | 3 nos | | |
| 3 inch tc connection | 1 nos with Blind Connection | | |
| Jacket Connection | | | |
| Tee 35 Tc | 2 Nos(1 Nos -side bottom of jacket, 1 Nos-side top of jacket) | | |
| Cross 35 Tc | 1 Nos(For Pressure guage, Safety valve, Air Valve) | | |
| Total Height | to be confirmed | | |
| Design Criteria | | | |
| Viscosity | 100 cP | SG | 1.1 |
| Pressure | FV to 4 kg/cm2 | Temp | 130 deg C |
| Mechanical Detail | | | |



All SS Plate Will Be "JINDAL" make Only

Agitator Details

| | | | |
|-----------------------------|---|--|--------------------------|
| Model | 1500L-3hp-NFLP-AS30@154rpm-50mm--NI-sms | | |
| MOC Contact Parts | SS 316 | Shaft Diameter | 50 mm |
| MOC Non-CP | MS/CS | Shaft Speed(RPM) | 150 |
| | | Speed Controlling | Variable Frequency Drive |
| Sealing | Single Mechanical Seal | | |
| Gearbox (Elmech) | Worm Gearbox/ Inline Helical | | |
| Motor HP (Elmech) | 3 | NFLP, 4 Pole, Flanged, 3 Ph, 415 V, 50 Hz, | |
| Impeller Type (From bottom) | Ruston Turbine | | |
| Impeller Blade | 6 Blade | 6 Blade | 6 Blade |

Accessories

| | |
|---|---|
| SS Filter Housing set with 0.2 μ PP Plated Filter Cartridge | 2 nos - for air inlet and air outlet |
| Scope of Supply | Design, manufacture, supply of UPM make agitator assembly. Which includes impeller blades with hub, shaft, lantern assembly with bearing housing etc. |
| Scope of Buyer | Installation in scope of buyer(Plug and Play System)Electricity, Water, Drain Line In Buyer Scope |
| Panel/ Automation Detail | |
| Temperature Sensor | PT-100 |
| Ph Sensor | Online-Sterilizable(Indian Made) |
| Ph Controlling | Automatic ph control Using Peristaltic Pump(2 Nos)PLC Controlling |
| automatic Media Sterilization | Automatic PLC Controlling Based(Temperature With Timer) |
| Batch Process Temperature | Automatic PLC Controlling Based |

Other Equipment

| | |
|--|---|
| Oil Free Air Compressor | 3 HP |
| Water Chiller | 1 TR with 70L tank |
| Commercial Terms & Conditions | |
| Unit Price(Non Negotiable)RS. | email us with top model number on (info@ssfermenterbioreactor.com) with Your Official email & Company Detail |
| Price Basis | Ex Factory Works |
| Taxes & Duty(Tax Amount) | Extra as applicable at the time of dispatch, Presently GST = 18% |
| Packing Amount | 3% Extra(Wooden Box Charge Extra As Per Size) |
| Freight & Insurance | By purchaser |
| Delivery | 8 to 10 weeks after Purchase Order with Advance |
| Payment Terms | 50 % advance, balance against proforma invoice |