



Revised offer



ACME FLUID SYSTEMS

FACTORY: Plot no. 152/2,
Road No. 5, GIDC Kathwada
Kathwada, AHMEDABAD-382430

Ph: 079-22870005, 09979664455
Email: arpit@strainersindia.com, rakesh@strainersindia.com
Website: www.strainersindia.com

Correspondence Address:

C-151, SECTOR-10,
2ND FLOOR,
NOIDA-201 301 (U.P.)

Ph: 0120-4313340, 41, 42, Fax No.: 0120-4313342, 9810057364
Email: arpit@strainersindia.com, rakesh@strainersindia.com
Website: www.strainersindia.com

THANK YOU FOR CHOOSING ACME FLUID SYSTEMS

QUOTATION

ACME/2022-23/OFFER/0409 R1

Dated: 23.06.2023

M/s Jindal Aluminium Limited
SP-2/333, Industrial Area,
Bhiwadi Dist, Alwar,
(Rajasthan) – 301019.

Mob.: +91- 08660029462.

Kind Attn: Mr. Rajgopal. C. Sarda.

Sub: Your requirement of automatic backwash Type Strainer against enquiry dated 08.06.2023.

Dear Sir,

We thank for your above referred enquiry and are pleased to submit our REVISED TECHNO-COMMERCIAL PROPOSAL for your kind perusal as per stated below.

We hope you will find our offer in line with your requirement and shall be pleased to submit additional information/clarification, which you may require.

We now look forward to receive your valued order at an early date, which shall have our best attention at all times.

Thanking you
Yours faithfully,
FOR ACME FLUID SYSTEMS

Rakesh Sharma
+91 9810057364

Arpit Mehrishi
+91 9979664455

(Contd.....2)

TECHNO- COMMERCIAL PROPOSAL

1. **DESIGN & OPERATING DATA**

Item	Scrapper Mechanism <u>Self-cleaning Filter</u>
Design Pressure	6 Bar
Hydro Test Pressure	8 bar
End Connection	Flanged ends As per ASME b 16.5, 150#

MATERIAL OF CONSTRUCTION

Body	Mild Steel Epoxy Coated
Cover	Mild Steel Epoxy Coated
Element Wedge Wire	SS 316 (150 MICRONS)
Gasket	EPDM

PERFORMANCE

Pressure drop (clean)	0.15 kg/cm ²
Pressure drop (For Self cleaning)	0.3 kg/cm ²
Drain	1"
Air vent	1/2"

PRICING

Size	Qty.	Unit Price (INR)	Total Price (INR)	FLOW
12"	1 Nos	<u>5,80,000.00</u>	<u>5,80,000.00</u>	6500 LPM

Scope of Supply

- Filter housings
- Filter element
- Auto Drain valve)
- Air Vent
- DP Transmitter
- Motor (NON Fame proof – IP67)
- Scrapper mechanism
- Mechanical seal
- MOTOR MAKE: SEW EURODRIVE
- PLC Operated Control Panel

5,60,000/-

→ PLC and HMI Backs will be provided by party.

→ Make of PLC - Schneider

Notes / Remarks

Product HSN CODE

84212900 for strainers, 84818030 for valves

Prices

The prices quoted are Basic Only.

Technical Points

- Make Acme Fluid Systems, India ✓
- GA Drawings We will submit GA drawings within 7-10 days after receipt of PO
- QAP We have enclosed out Standard QAP for your reference, Kindly review & confirm. ✓
- NDT & Special Test We have not considered RT, NDT & any special tests, certificates etc. ✓
- MTC We will Provide 3.1 Certification of Pressure bearing parts and 2.2 Certification for all other part ✓
- Painting The painting shall be as per Acme Standard Unless Specified otherwise. ✓

Terms & Conditions

- Delivery Ex- Works, Ahmedabad → Approp weight 1700
- Delivery Schedule 8 weeks ~~8 to 10 weeks~~, Upto receipt of Firm PO along with approved GAD / QAP and manufacturing clearance and Advance. ✓
- P&F -5% (wooden-Box) Included. ✓
- Freight & Insurance Extra to Your Account ✓
- Tax & Duty 18 % GST EXTRA ✓
- Inspection Charges All TPI charges extra in your account at Actuals ✓
- Payment 30% Advance, Balance Against PI before dispatch ✓ As below.
- Warranty Any Manufacturing defect for a period of 12 months from date of commissioning or 18 Months from date of dispatch, Whichever is earlier. ✓
- Validity 30 Days

NOTE:

ORDER TO BE PLACED AT OUR BELOW MENTIONED FACTORY ADDRESS.

ACME FLUID SYSTEMS
 Plot no 152/2, Road No.5, →
 GIDC Kathwada,
 Ahmedabad- 382 430
 Yours faithfully,
FOR, ACME FLUID SYSTEMS
 Rakesh Sharma
 +91 9810057364

Payment: 90% Basic + 100% GST against proforma invoice before dispatch subject to technical clearance after day today at party end.

10% Basic after commissioning subject to submission of PBC valid for one year from the date of commissioning.

Discussed with Mr. Rakesh and agreed above.

[Signature]
 29/06/23

Revised offer



SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA

Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India

Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325

E-mail: sales@sharplexfilters.com Website: www.sharplex.com

Techno-Commercial Offer

M/s. Jindal Aluminium Limited., Rajasthan – 301019.	Date: 17.06.2023
Attn: Mr. Rajgopal C. Sarda. Cell: 09611195368 Email: rajgopal@jindalaluminium.com	Offer No: SHRP/Svk/NG/176A/2023-24
Ref: Further to our offer dt. 12.06.2023 and Email dated 16.06.2023	Project: Self

Dear Sir,

We thank you very much for Your enquiry

We are submitting herewith our **revised** proposal for your kind review as below:

- Annexure 1 – Technical Specification
- Annexure 2 – Operation Philosophy
- Annexure 3 – Commercial Offer

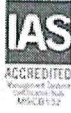
Hope the same is in line with your requirement. We look forward to receive your feedback on the proposal at the earliest.

For additional information / clarification please feel free to contact us.

Thanks & Regards
Yours truly,

For Sharplex Filters (India) Pvt. Ltd.

Satish V. Khadke
Chairman
Cell: +91 98200 22550

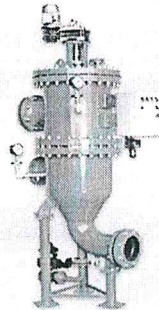


SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA
Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India
Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325
E-mail: sales@sharpfilters.com Website: www.sharpflex.com

Annexure-1 DESIGN DATA

Feed Source	Cooling Tower/ R.O. WATER
Feed Flow	6500 LPM (390 Cum/Hr.)
TSS (mg/l)	<20 ppm
Operating Pressure Inlet	Min. 2.5 bar g
Operating Temperature	40 Deg. C



OFFERED SOLUTION

6500 LPM (390 Cum/Hr.) PRVC-10, 250 Micron Filter along with Control Panel

Scope of Supply

Vessel in Carbon Steel +Epoxy coated designed as per ASME Sec VIII Div I (Latest) → MTC will be provided

Wedge wire filter elements 250 micron in SS 316 → MTC will be provided

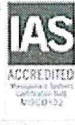
Internals in SS

Motor & gear box

Differential pressure switch

Purge valve with actuator (Pneumatic)

Control panel



SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA

Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India

Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325

E-mail: sales@sharpfilters.com Website: www.sharplex.com

Technical Specification

Model	PRVC-10, 250 Micron
Liquid to be handled	Cooling Tower/ R.O. WATER
Operating Temperature	40 Deg. C
Design Temperature	60 Deg. C
Operating Pressure Inlet	Min. 2.5 bar g
Design Pressure	6 Bar g
Hydro test pressure	7.8 Bar
Flow rate	6500 LPM (390 Cum/Hr.)
ΔP max allowable	In Clean Condition - 0.2 Bar 50% in Clogged Condition - 0.7 Bar.
Inlet/Outlet	250/250 NB
Drain Valve	40 NB
Material of Construction:	
Vessel	Carbon Steel +Epoxy coated designed
Element	SS 316 (16 Nos.)
Internals	SS
Arm	C.S.
Gasket	NBR65SH
Body Flanges	Carbon Steel +Epoxy coated designed
Control of Electricity	
Voltage	415v A/C ,50HZ
Current consumption	1.5 AMP
KW Rating	0.37 KW
Control Voltage	230V AC
IP Protection	IP 65



Certified ISO 14001 2015

Certified ISO 45001 2018



SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA

Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India

Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325

E-mail: sales@sharpfilters.com Website: www.sharpflex.com

BILL OF MATERIAL

Sr.No.	Description	Make
→ 1	Motor	Siemens/ABB ✓
→ 2	Gear Box	Premium/Motovorio/ Bongi Fili ✓
→ 3	DP Switch	Hirlekar ✓
→ 4	Pressure Gauge	ITEC/Wika ✓
→ 5	Pneumatic drain valve	Metso ✓
→ 6	Proximity Switch	Pepperl+ Fuchs Turck ✓
→ 7	Control Panel Enclosure	Rittal ✓
→ 8	PLC+ HMI	Remu Siemens S7-1200 ✓

→ ^{Bonglerum} PLC + HMI backup ~~is required~~ →



Certified ISO 9001:2015

Certified ISO 45001:2018



SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA

Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India

Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325

E-mail: sales@sharplexfilters.com Website: www.sharplex.com

Annexure- 2 Operation Philosophy

The back-flushing filter is a fully automatic self-cleaning filter designed to extract particles from low viscosity fluids. When the set operating parameters are exceeded, the back-flushing filter automatically initiates regeneration (back-flushing) of the contaminated filter elements.

The back-flushing filter operates continuously, so that the filtration process is not interrupted when the filter elements are flushed. The back-flushing filter requires minimum maintenance. No elements need to be replaced under normal operating conditions.

Operational Description:

Filtration:

The fluid to be filtered flows through the slotted-tube filter elements of the back-flushing filter, passing from the inside to the outside. During this process particles of the contaminant collect on the inside of the filter elements. As the level of contamination increases, the differential pressure between the contaminated and clean sides of, the filter increases. When the differential pressure reaches its pre-set value, back-flushing starts automatically.

To trigger automatic back-flushing

Back-flushing is triggered automatically:

- When the pre-set differential pressure value is exceeded,
- When triggered by the pre-set timer,
- When the TEST key is pressed.

As soon as back-flushing has been triggered, the filter starts to regenerate the filter elements.



Certified ISO 14001 2015

Certified ISO 45001 2018



SHARPLEX FILTERS (INDIA) PVT. LTD.

CIN-U29253MH1993PTC075606/ GSTIN: 27AAACS6444H1ZA

Reg. Office & Works: Plot No. R-664, T.T.C. Industrial Area, MIDC, Rabale, Navi Mumbai – 400 701, India

Tel.: +91-9136921232 TO 39/27696322/27696339/27696331 Fax : +91-22-27696325

E-mail: sales@sharplexfilters.com Website: www.sharplex.com

Back-flushing of the filter elements – Back- flushing cycle

- The geared motor rotates the flushing arm under the filter elements to be cleaned. The flow of contaminated fluid to the filter elements is now interrupted.
 - The back-flushing valve is opened.
 - The pressure drop between filtrate side and back-flushing line flushes a small part of the filtrate backward into the filter elements to be cleaned. The contamination particles collected on the inside of the filter elements are loosened and flushed into the back-flushing line via the flushing arm.
 - As soon as the "back-flushing time per element" "as elapsed, back-flushing valve is closed. All the filter elements are thus back-flushed in succession.
- A back-flushing cycle is terminated when all the filter elements have been individually flushed.

Sharplex Core Values

1. Online filtration, No personal Intervention is require.
2. Units are capable to handle very high flow rates with less footprint.
3. Water wastage is < 1% & consistency in outlet water quality even during backwash.
4. Lower energy use as back wash rejects are less.
5. Uniform cleaning with Less labor cost engaged.
6. Plug & Play product, hence commissioning time is less.