



# **Superflow Pumps Pvt. Ltd**<sup>TM</sup>

An ISO 9001-2015 Accredited Company



*Think Flow.  
Think Superflow.*





**Mr. T. P. Tiwari - Chairman**

We, **Superflow Pumps Pvt. Ltd.(SPPL)**, are pleased to present ourselves, as one of the Indian centrifugal pump manufacturer, with modern outlook, and committed to “**Make In India**” mission.

We have adopted modern design approach, successfully employing **CFD, FEA** design techniques. We use CNC machines to manufacture quality and precision product to achieve best pumps' efficiency. For our pumps to obtain highly efficient fluid flow profile, we use fine smooth quality Investment Castings. Our pumps are designed as per **ANSI 73.1/ ISO 2858** with closed as well as open type impeller design follows with easy maintenance configuration of back pull out design, essential for quick dismantling, repairs and inspection, without disturbing piping system.

We have computer-controlled **Vertical Turning Lathe** and **CNC Turning Machine** to ensure high precision machining of all components for better fitment of spare parts.

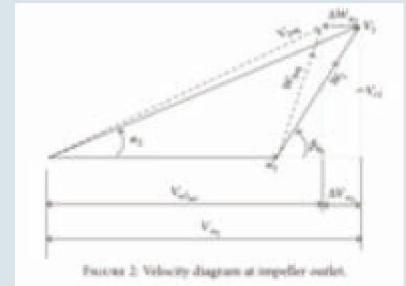
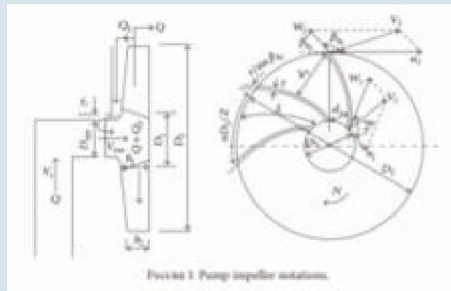
- At SPPL, every pump undergoes Performance test, in accordance with our quality policy. Client or his representative is always welcome to visit us to witness the Performance and Mechanical Running Test on Test Bed. The latest **Computerized data acquisition system** is installed for the pump testing facilities to ensure accurate performance test results. We can present the test data as per the testing standards in compliance with ANSI/HI 14.6 /PTC8.2 codes.
- We have got facility to test pumps driven by Test-Motor through **VFD** drive which enables pump testing at any desired speed.
- Our Test facility also enables us to conduct **NPSH test**, on special demand by Customer.
- An **Advanced Russian Vibration analyser** is used for measurement of **Vibration levels** and can plot frequency spectrum and vibration signature of the pumps during test runs.
- Our In-house **Dynamic balancer** can achieve G2.5 level of dynamic balancing of impellers, to ensure that the pumps run with low levels of vibrations.

- SPPL has installed a special **Nozzle load measurement facility** on the lines of Japanese test facility, completely designed and installed, in house, to check pump assembly nozzle load carrying capacity. Pump assemblies are checked on the Nozzle load capability test bench to ensure and confirm that the pump nozzles are capable of sustaining specified nozzle loads, essential for safe piping loads and stresses.
- SPPL pumps are fitted with high quality **Cartridge type Super Mechanical Seal**, manufactured by our sister company. We can assure client to provide all maintenance spares for the seals, with quick deliveries and troubleshooting, as may be required during life of the pumps.
- SPPL's range pump spans over capacity spread of **3M<sup>3</sup>/Hr. to 1250 M<sup>3</sup>/Hr.** and Head spread of 5 M to 150M.
- Centreline supported Pumps are offered to meet high temp. services in the range of **250°C to 400°C**. Integral steam tracing installed on the Casing and Stuffing Box, with adequately sized insulation box, ensures to maintain casing temp., and permits pump to serve as hot standby.
- SPPL can supply pumps in C.I., C.S., CF8, CF8M, CN7M, Hastelloy, and Ni-resist, Ni-hard, and other corrosion resistant metals as per service demand. We can also supply low speed lined economical Pumps to cater to the special corrosive service conditions.
- Some of our recent satisfied clients are, Mangalore Chemicals and Fertilizers Ltd. for various services in SNF Plants , M/s. Oman Formaldehyde Chemical Company LLC, Sultanate of Oman; M/s. Sprea Misr For Chemicals & Plastics for World's one of the largest SNF Plant, M/s. National Company For Sulphur Products, Saudi Arabia for Newly installed Formaldehyde, SNF and Resin Plants. Also we have supplied pumps for projects like M/s. Saudi Universal Petrochemical Industrial Chemicals and M/s. Industrial Chemicals & Resins Co. (ICR) through our Jubail office.

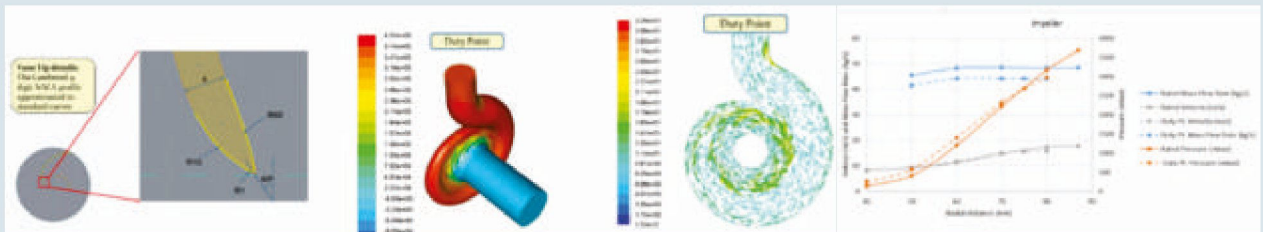


## JOURNEY OF API-610 PUMP DEVELOPMENT

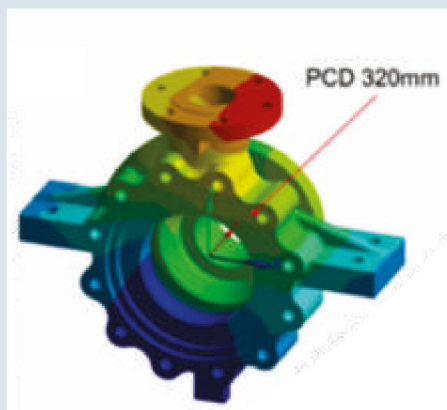
**2D DESIGN BASED  
ON DUTY CONDITIONS**



**CFD  
ANALYSIS**



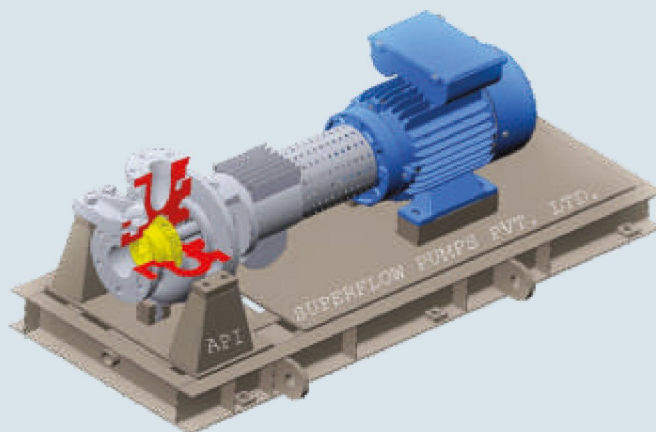
**SHAFT  
DESIGN**



### FEATURES

- Back pullout pump design permits removal of the complete rotating element without disturbing suction/discharge piping and driver.
- Centreline supported heavy duty design to ensure high reliability under stringent operating conditions.
- Fully API-682 Mechanical seal and API 610 seal chamber for improved seal environment and life.

**FEA  
ANALYSIS**



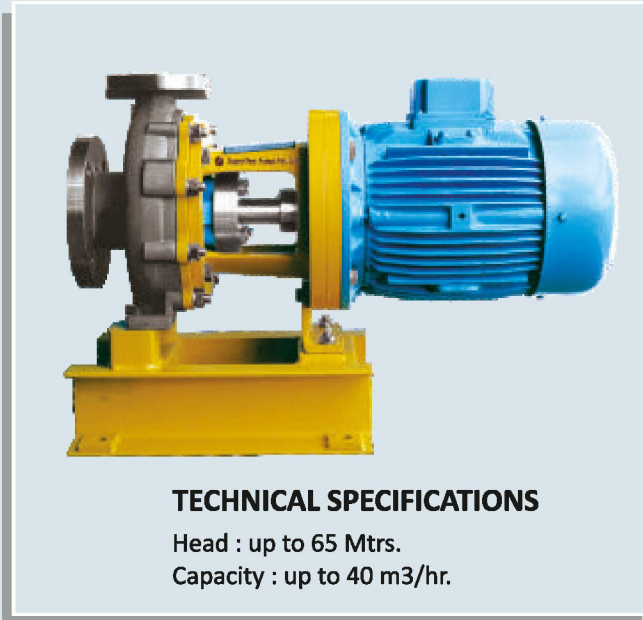
**ENGINEERED  
API PRODUCT**



### HORIZONTAL CHEMICAL PROCESS PUMP



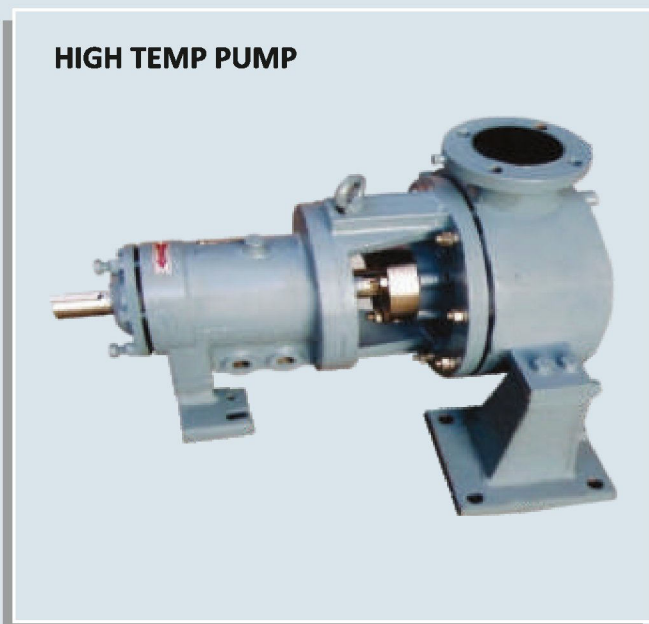
### CARTRIDGE CHEMICAL PROCESS PUMP



#### TECHNICAL SPECIFICATIONS

Head : up to 65 Mtrs.  
Capacity : up to 40 m3/hr.

### SEMI - OPEN IMPELLER PROCESS PUMP



#### HIGH TEMP PUMP

#### TECHNICAL SPECIFICATIONS

Head : up to 100 Mtrs.  
Capacity : up to 600 m3/hr.  
Maximum temperature - 350DegC  
Mechanical Seal - Metallic Below

#### APPLICATION AREAS

- For handling chemicals, acids, slurries, solvents, hot water
- Petrochemicals • Refineries • Paper plants • Steel plants
- Effluent & sewage plants • Textile plants • ETP & STP, etc.

### SELF PRIMING PUMP



#### TECHNICAL SPECIFICATIONS

Head : up to 35 Mtrs.  
Capacity : up to 73 LPS • Motor : 1-10 HP

#### FEATURES

- Able to Handle suspended soft particles
- Automatic air release during priming
- Flatter Efficiency Curve.
- Replacable wearing parts

## SUPERFLOW VERTICAL PUMP MODELS

### VERTICAL SUMP PUMP

'Superflow' SVP Vertical Sump Pumps are specially designed for long life and trouble free performance. The Special design of Intermediate journal bearings & high machining accuracy maintained by Superflow gives added life to pumps.

The pumps are used as dry pit & wet pit and driven by vertical flange mounted motor where NVSHR not-re-quired.

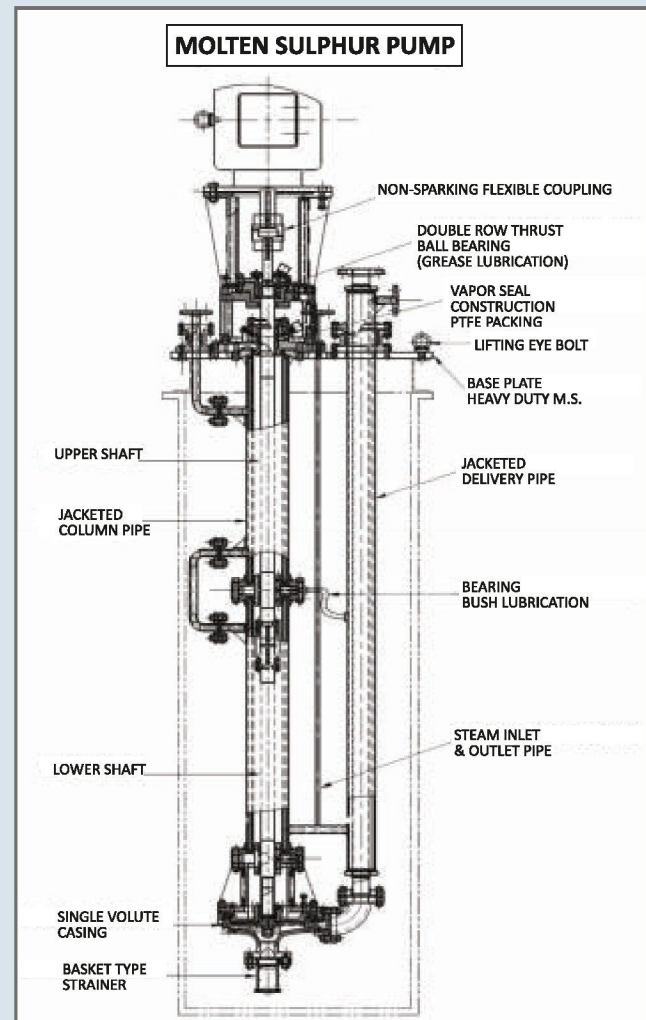
The pumps are available upto 5000 mm Shaft length and max flow upto 150 M<sup>3</sup>Hr at 15 mtrs head. These pumps are suitable for coal washeries, mines, cement plants, irrigation, sea water, effluents, etc.



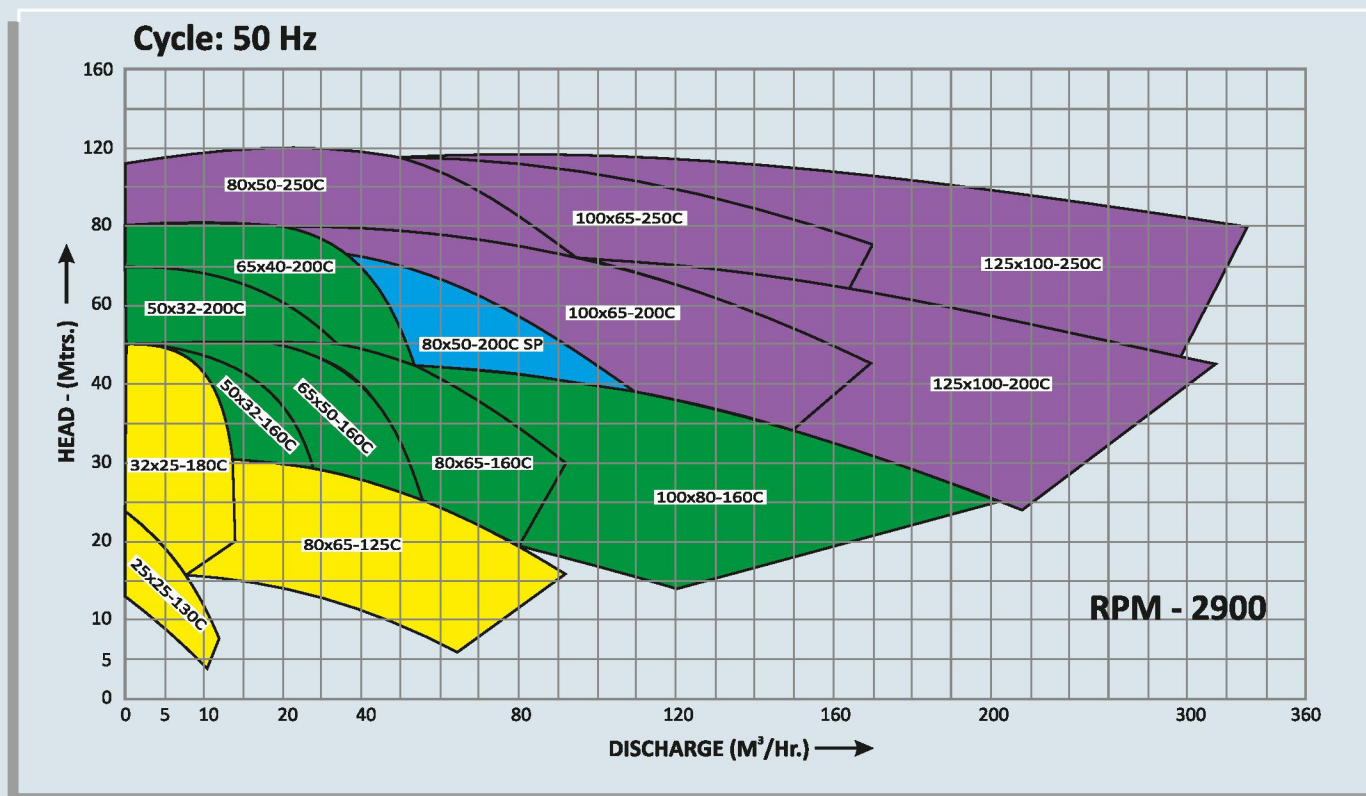
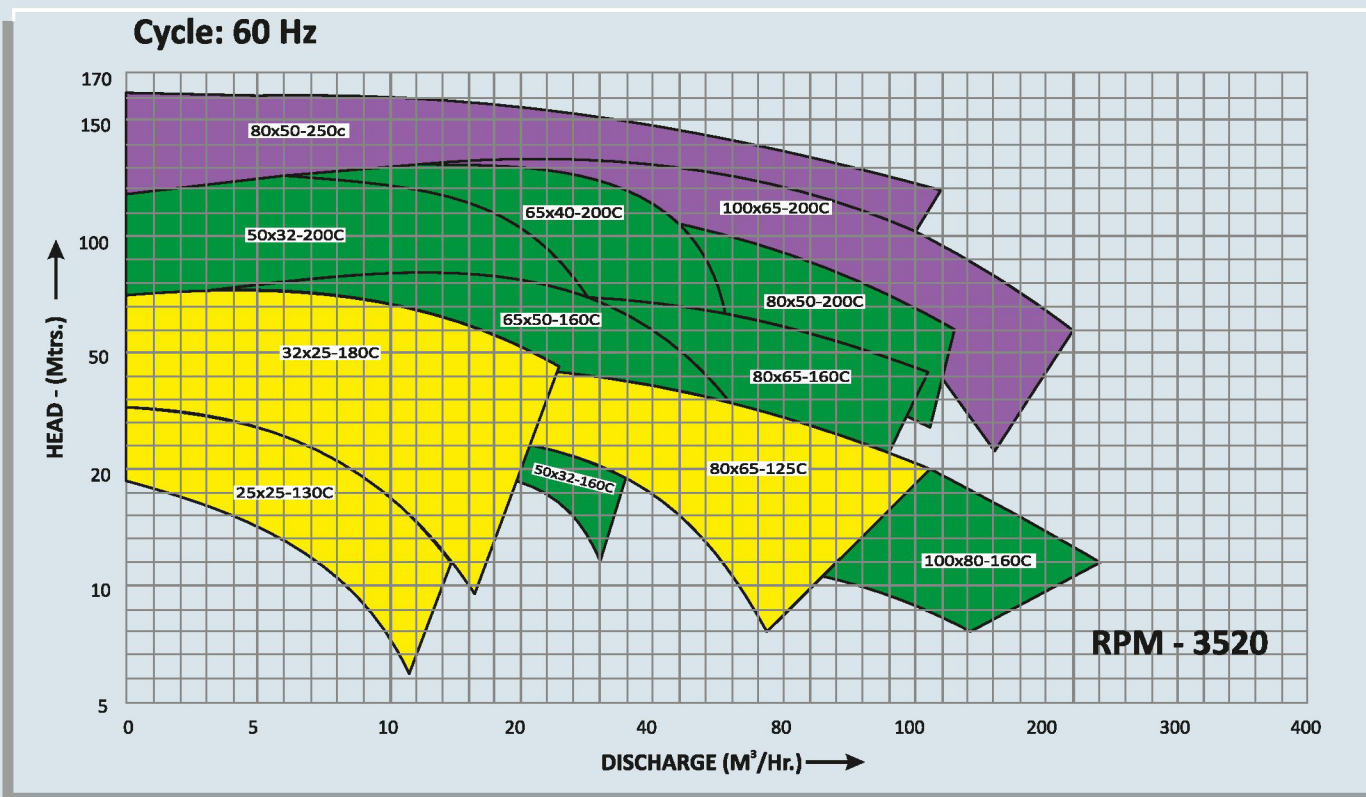
### VERTICAL MOLTEN SULFUR SUMP PUMP

'Superflow' SVP Vertical Sump Pumps are specially designed for long life and trouble free performance. The Special design for Molten Sulfur incorporates bearing intermediate bearings made of special Teflon compound, and lubrication by Molten Sulfur injected through a line tapped from discharge pipe. Line is adequately insulated/ jacketed to ensure lubricating sulfur in molten state.

Pump shafts are designed to ensure that the first critical speed exceeds running speed by at least 10%, to ensure that the vibrations are well within limits and resonance is avoided.

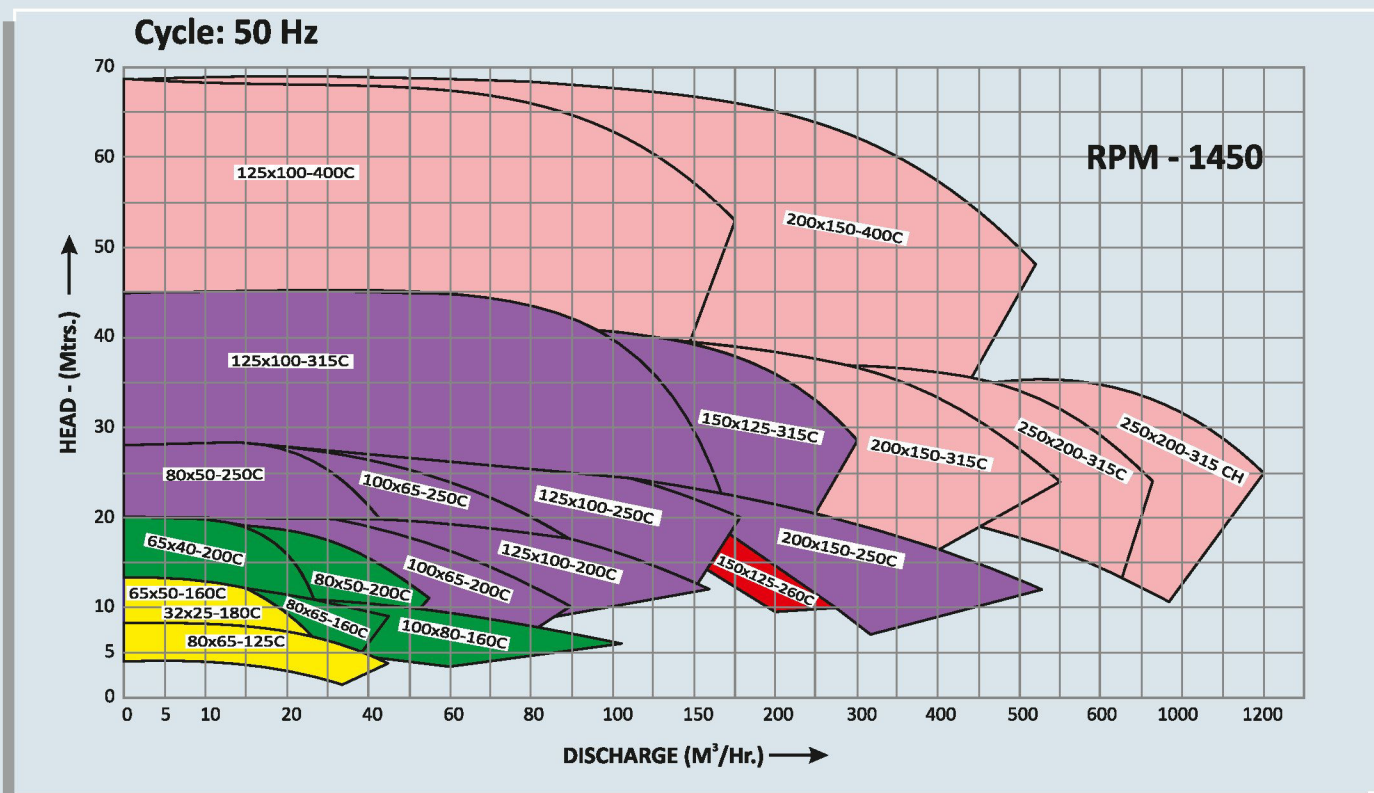
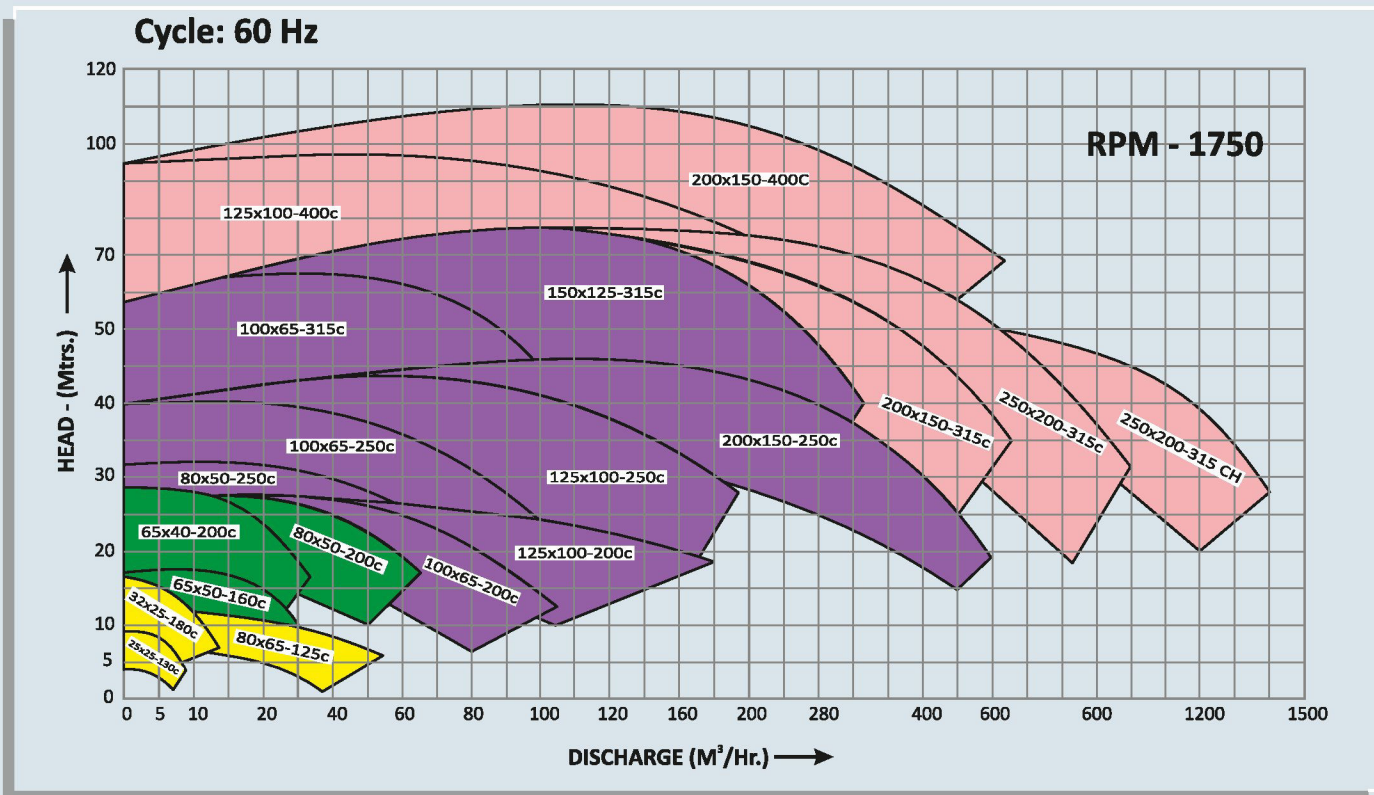


### CHARACTERISTIC CURVES – CLOSED IMPELLER PUMP



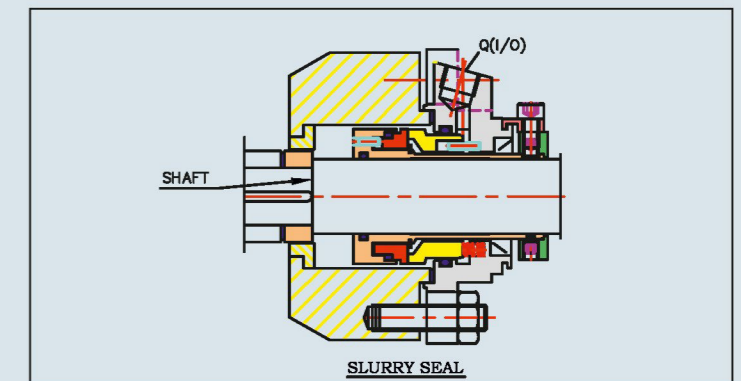
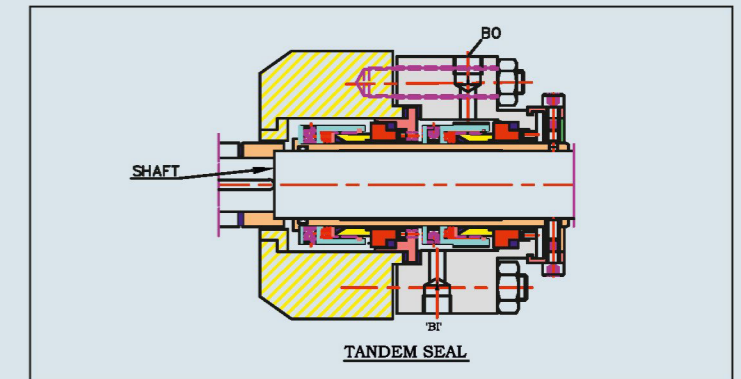
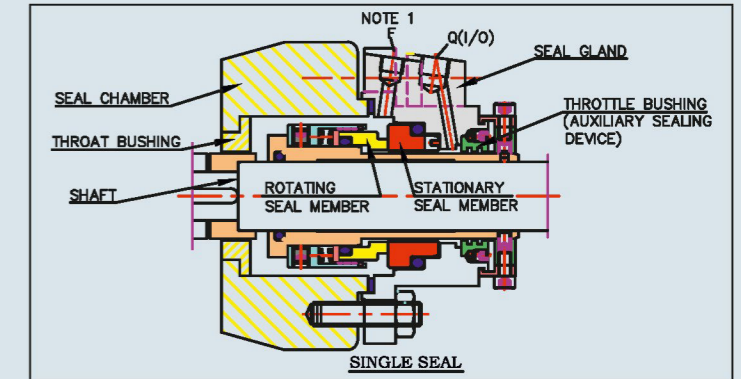
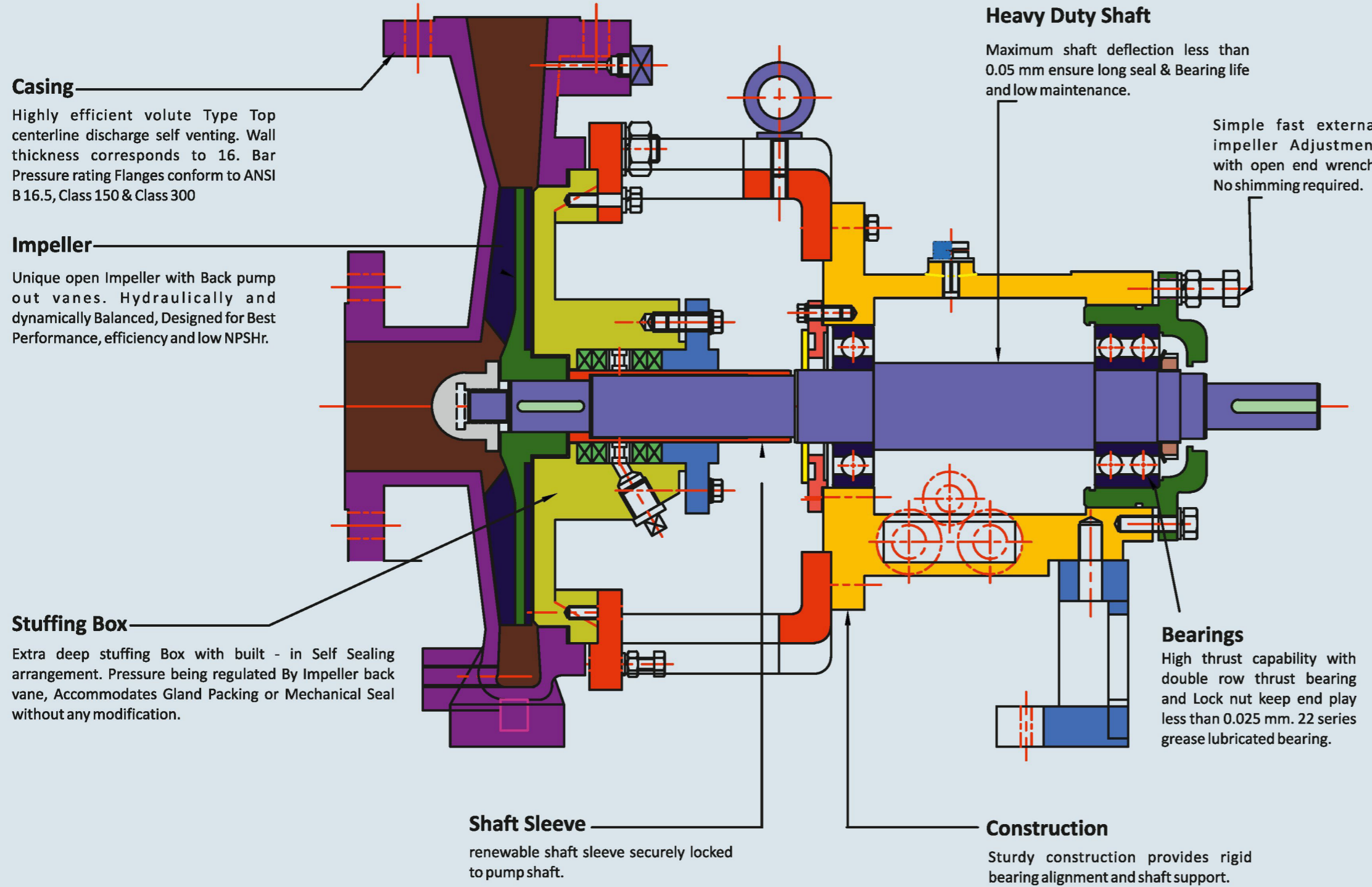
**Note:** Curve Tolerances as per ISO 9906:2012 Grade3b. In line with our company policy of continuing improvements, specification herein are subject to modifications without notice.

### CHARACTERISTIC CURVES – CLOSED IMPELLER PUMP



**Note:** Curve Tolerances as per ISO 9906:2012 Grade3b. In line with our company policy of continuing improvements, specification herein are subject to modifications without notice.

Superflow Pumps Private Limited with more than one decade of experience, are one of the pioneers in the designing and manufacturing of pumps in the Global market. Superflow Pumps are well known for their rugged construction and trouble-free performance. These pumps are made as per ISO 2858 and ISO 2454 International standard. These pumps consume less power due to better hydraulics and higher efficiencies.



SYMBOL	DESCRIPTION
"F"	FLUSHING
"BI", "BO"	BARRIER LIQUID INLET & OUTLET
"QI", "QO"	QUENCHING INLET & OUTLET
"D"	DRAIN
"V"	VENT

NOTE 1 :- THESE PLANS ARE FOR USE WITH THE CONNECTION "F" ON THE SINGLE - NDA UNPRESSURIZED DUAL SEAL ARRANGEMENT.



## VIEW OF GROUND FLOOR WORKSHOP



Think Flow, Think Superflow

## VIEW OF FIRST FLOOR WORKSHOP



Think Flow, Think Superflow

## EXHIBITION



**OUR INFRASTRUCTURE**

**CNC MACHINE**



**VTL MACHINE**



**HYDRO TEST BENCH**

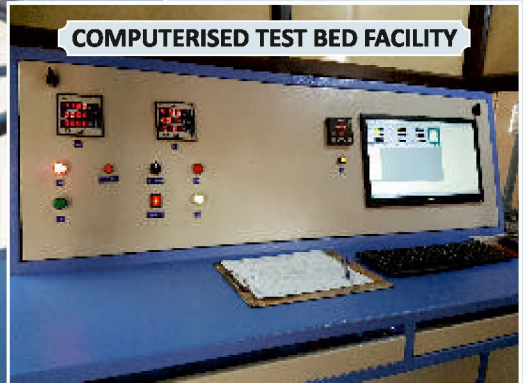


**TESTING MACHINES**

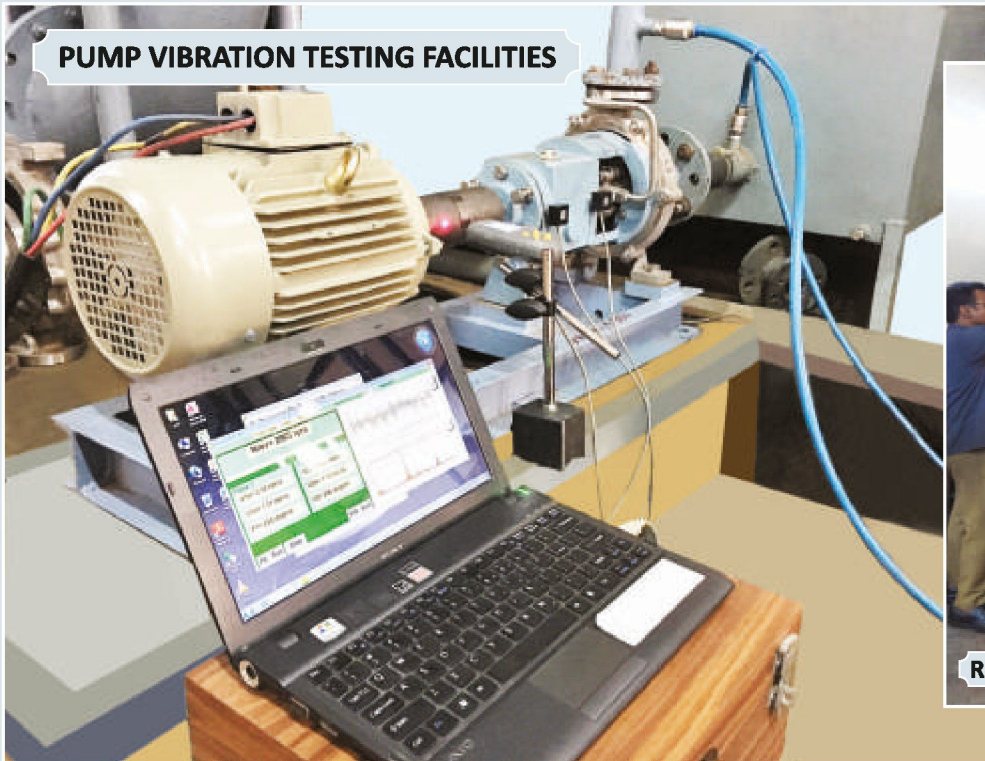
**PUMP TEST BED - as per IS 9137**



**COMPUTERISED TEST BED FACILITY**



**PUMP VIBRATION TESTING FACILITIES**



**RADIAL DRILL & TAPPING MACHINE**

**TESTING ARRANGEMENT FOR  
FORCES AND MOMENTS ON  
PUMP NOZZLES**

**NOZZLE LOAD TEST FACILITY**



**IMPELLER BALANCING MACHINE  
as per ISO 1940 Gr2.5**



**PUMPS READY FOR DISPATCH.**



### TESTIMONIALS


**الشركة الخليجية للمواد الكيميائية المسالفة**  
**GULF STABILIZERS INDUSTRIES**  
 2007 Venture Capitalist Group Member Pk  
 and Members Corporation - USA

To Whomsoever It May Concern

This is to certify that we are using many Mechanical Seals of the make, "Super Mechanical Seals" in our Chemical Process plants. Mechanical seals are supplied, serviced and repaired by M/S. Husain H. Alkwas Workshop (HATEC), Alhad, USA. Urgent requirements are also manufactured at their workshop in India.

We have also installed pumps of the make "Superflow Pumps" in our Chemical Process plant.

We have found the Mechanical Seals and Pumps to be of very good quality and at par with all other manufacturers in the world.

We congratulate M/S Husain H. Alkwas Workshop for their excellent service and high quality in the all products supplied by them and expect them to keep up the good work.

For & on Behalf of


Plot No. 15/103, Old Madhav Nagar, Bangalore  
 P. O. Box, 100004  
 India  
 Phone: 080-26541111  
 Fax: 080-26541112  
 Website: www.gsi.com.in  
 E-mail: info@gsi.com.in


**ATEC**  
 ANSHULA TECHNOLOGICAL ENGINEERING CONSULTANTS PVT. LTD.

Ref: ATEC / CERT / V / 2011      Date: February 7, 2011

TO WHOMSOEVER IT MAY CONCERN



This is to certify that M/s Superflow Pumps Pvt. Ltd., Mumbai, India have been our regular duly pre-qualified and accredited vendor for rendering various services for execution of numerous projects undertaken by us on quasi turn-key and lump sum turn-key basis in India and abroad. The said services have included the following:

- 1) Detailed design / engineering / supply of rotating machinery including pump-motor sets and compressors etc.
- 2) Supply of mechanical seals and spare parts for rotating machinery.
- 3) Design / engineering / fabrication / supply of mild steel and stainless steel static vessels including separators, knock-out drums and reactors.
- 4) Piping design engineering (including preparation of piping layout plans, piping isometrics, feasibility analyses and bills of materials) and supply of piping materials inclusive of pipes, fittings, flanges, gaskets and other elements.
- 5) Lifting work and materials transportation services.

It is our pleasure to place on record the fact that the quality of workmanship and services provided to us by Superflow Pumps Pvt. Ltd. have been excellent meeting highest international standards.


  
**Trinetra Bajpai**  
 Managing Director (ATEC)

A-421402403, Lax Building (Hemlock House 016) Plot No. 476, T.P.S. 91, 26th Road, Khar (W), Mumbai - 400 052,  
 Tel. : 022-8898 8131 / 2643 3075 / 80 • Fax : 022-2946 3670 • E-mail : Bajpai@atec.co.in • Website : www.atec.co.in



**EXIDE**  
 Exide Works  
 D2, M.I.B.C. Estate,  
 Ernakulam (East),  
 Pincode 681 018.


DATE: 28.01.06

whomsoever it may concern

We have been using "Superflow " centrifugal chemical pumps for last four years at our Chinswad plant & Bawal plant for pumping sulphuric acid.


All the pumps are working to our fullest satisfaction.

For Exide Ind. Ltd.

  
**R.G. Karandikar**  
 Asst. Manager

R.G. Karandikar

Phone : 0211 4400 (A Lines) • Fax : 21 - 020 - 5011 4400 • E-mail : cti@chil.wdgm.com  
 Regd. Office: Kank Road 188, Changanassery Road, Kollam - 686 002, Kerala • IN 425,4819 (24) (2) (I) P  
 Tel : 91-025-2477019 / 2487922 • E-mail : @chil.wdgm.com



**CHEMANOL**  
 CHEMANOL CHEMICALS COMPANY  
 WEIRANDE CHEMICAL COMPANY


October 20, 2010

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Superflow Pumps Pvt. Ltd., India were awarded a contract by our Engineering & Project Management Contractors for supply of Centrifugal Pump Sets along with Electric Motors and all related accessories for our Fertilizer Hydroxypropylene-Oil Plant 50000 Project. This Project was successfully commissioned and all the Pumps/Motors supplied by M/s Superflow Pumps are found to be performing satisfactorily.

For & on behalf of

**METHANOL CHEMICALS COMPANY**  
**(CHEMANOL)**  
  
**P.K. Laxmi**  
 IDENTIFY

  
**Methanol Chemicals Company**  
 and C.A. Hyderabad

في 20 اكتوبر 2010  
 هذه الشهادة هي بمثابة اعتراف من قبلنا بانه تم منح عقد من قبلنا لشركة سويفلوف بامبس للهنديا لخدمة امدادنا بمعدات مضخات كيميائية وموتور كهربائية وجميع الملحقات لخدمتنا في مشروعنا الهيدروكسي بروبيلين-الزيت 50000 فوسفات  
 في 20 اكتوبر 2010  
 في 20 اكتوبر 2010  
 في 20 اكتوبر 2010  
 في 20 اكتوبر 2010

Phone : 0211 4400 (A Lines) • Fax : 21 - 020 - 5011 4400 • E-mail : cti@chil.wdgm.com  
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 Tel : 91-025-2477019 / 2487922 • E-mail : @chil.wdgm.com



## **Superflow Pumps Pvt. Ltd.**

An ISO 9001-2015 Certified Company

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Tel.: 97691 22842 / 97691 92843 / 98210 20774

Email: info@superflowpumps.com • Website: www.superflowpumps.com

*Think Safety ★ Think Super*

### MARKETING OFFICES:

#### Maharashtra:

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Gen. Manager - Marketing & Sales

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Email: mktg.gm@superflowpumps.com

**Mr. Suyog Gujar**

Marketing & Sales

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Email: inmishra@supermechanicalseal.com

**Mr. I. N. Mishra** - 09826013332

Regional Manager

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KANPUR - 208017 (U.P)

**Mr. S. P. Yadav**

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Maharashtra - 440015

**Mr. Pradeep Upadhyay**

Mobile: 9922403875

#### Saudi Arabia:

**HUSAIN H. ATWAH WORKSHOP**

P.O. Box 1316, Al-Jubail 31951,

Kingdom of Saudi Arabia

**E-mail:** amit@hatcoworkshop.com

**E-mail:** hatcoestablishment@gmail.com

**Mr. Amit Tiwari**

(Workshop Incharge) Cell no.+966-541319644

#### Gandhidham:

Plot No. 49, Bholenath Society,

Survey No. 525, Nr. Kandla Airport,

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Taluka - Anjar (Kutch) - 370110.

**Mr. Mukesh Upadhyay** - 09825304782

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Plot No. 202, Desai Wada,

Chhiri - 396195 Vapi, Gujarat.

**Mr. Pramod Kumar Patel**

Mobile: 09825325220

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House No. 192-A, Third floor, Flat No. - 06,

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New Delhi 110044

Mobile: 09167264727

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Behind Ravi Complex,

Near Valia Chowkadi, G.I.D.C.,

Ankleshwar - 393 002 (Gujarat)

**Mr. S. N. Mishra** - 09825304622

Regional Manager

Email: snmishra@superflowpumps.com

#### Ahmedabad:

23, Santdev Tenament,

Jamfalwadi, C.T.M.

Ahmedabad - 382 449 (Gujarat)

**Mr. K. P. Singh** - 09825304621

Area Manager

#### Vadodara::

J-405, 4th Floor, VIRAM-2, PHASE-2

B/H BILLABONG SCHOOL,

Nr Narayan Farm

VADODARA - 390011 (GUJARAT)

**Mr. ANIL KUMAR PANDEY** - 0997899213

Marketing Executive

#### Kerala:

TRA-103, PULLOLICAL HOUSE

THAIKKATTUSSERY. P.O.

OLLUR, THRISSUR-DIST. Pin - 680 306

**Mr. Ajeesh Joy** - 9539925874

Marketing Executive