



MRABEE TECH

AN ASSOCIATE OF POWER TECH GROUP COMPANIES

AN ISO 9001:2008 CERTIFIED COMPANY

POWER TECH GROUP COMPANIES



Chennai Power & Desalination Plant Training Institute

O&M Training for Degree / Diploma / Engineers
Email : chennai.power.padi@gmail.com



Power Tech Development W.L.L

Power Plant O&M Contracts
Power Plant Maintenance Manpower Supply
Email : powertechbahrain@gmail.com



Power Tech Testing & Services

Safety Valve Online Testing & Calibration
Safety Valve Offline Testing & Calibration
Safety Valve Servicing
Email : valvetests@gmail.com



Steam Power Contracting L.L.C

Power Plant O&M Contracts
Power Plant Maintenance Manpower Supply
Building Maintenance Contracts
Email : dohapower@gmail.com



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www.cpdti.in

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About us

Senior Power Plant professionals with the vision to provide integrated quality maintenance service started "Power Tech Development" company in Bahrain in 2008. With quality service and due to dedication of its employees, it has grown into "Group of companies with Branches in India, Qatar and in Kingdom of Saudi Arabia with local Partnership.

Power Tech Development is the Flag Ship company which is Power plant operation and maintenance contracting company and supplying Maintenance Manpower for Power, Desalination and Refinery utilities companies.

Power Tech Development is supported by Chennai Power and desalination Training institute, Located in Chennai and Trains the manpower for its requirement. Training imparted by the expert professionals and the institute Approved by Government of India, Ministry of power. A state of the art Training Institute with operation simulators and web based training tools.

Safety valves on line Testing and calibration services (TREVI TEST) done by POWER TECH TESTING division .

Testing Machine is "Accu TEST" machine purchased from USA, which is fully automated with of 0.3% accuracy, Test done by expert professionals with More than 30 years of experience in Testing (Furmanite).

Safety valves offline Testing and calibration, is done with specialized machine with 0.2% accuracy. It replaced the old Method of doing test by N₂ or CO₂.

Safety Valves Servicing is done by us in our workshop in Chennai, India and in Bahrain.

On line leak sealing, with 30 years of experience, we do leak sealing in HP/LP pipe lines OF STEAM, Feed water. etc.

We assure the quality service and quick response



SAFETY VALVES ONLINE TESTING AND CALIBRATION

TREVI TEST

Power tech safety valve testing division established in 2008 by Mr. Mohammed Sultan with 35 years of experience in power and desalination plant erection, turnover, commissioning operation and maintenance.

Regular Annual / Testing of Safety Valves / Relief Valves will greatly enhance the protection for Equipments, Machineries and Safety of Human beings. Failure of small relief valve" To Lift" resulted in big tragedy in chernobyl, U.S.S.R and Bhopal, India. Online testing, Exactly predicts the actual set valve of the safety valves. It identify the welded valve also. Momentary lifting of safety valves does not affect the process and could replace 'Actual floating'. Utilizing the industries most advanced software, this fully automated system virtually eliminates the possibility of human error. From automatic calibration of sensors to output of the final test results, the totally computerized operation delivers Superior performance with regard to set-up, ease of use, Accuracy and reporting.

KT3000 ACCUTEST SAFETY VALVE TEST SYSTEM

The AccuTest System Advantages :

- Completely automatic calibration, test operation and results reporting, significantly reduces the room for operator error.
- Test under full load, production immediate benefits.
- Eliminates the need to over pressurize or lower load, take equipment of line, or remove a 'weld in' valve.
- Save energy and reduces delays.
- Minimizes erosion of valve seats.
- Quickly identifies problem valves and diagnoses incorrect set pressure.
- Measures hydraulic load and line pressure, calculates set pressure.
- Extremely high accuracy. Calculates set pressure within 0.3%.
- Provides repeatability and consistent test within all ASME codes.



CERTIFICATION

- AccuTest machine already tested and certified by TUV-SUD for accuracy upto 0.3% of set value.
- ISO 9001-2008 certified for Test procedure.

SAFETY VALVES OFFLINE TESTING AND CALIBRATION

Calibration And Test Workstation For Pressure Safety/relief Valves And Pilot Operated Valves

The PSV workstations are a family of transportable, compact, digital and easy to operate stations for the testing and calibration of all sorts of Pressure Safety / Relief Values in the range of 1/2" - 10" and up to 5000 psig (350 bar).

PSV Workstations feature a unique digital registration system that allows the automatic detection of the set pressure and the reseating pressure. The Workstation communicate with the Isoplan-5® Calibration software to produce complete documented calibration and test reports.



SAFETY VALVES - INDUSTRIAL VALVES SERVICING

We have immense pleasure in introducing ourselves as one of the VALVE SERVICE provider (Reconditioning, Over hauling) of Industrial Valves.

Apart from manufacturing we are doing servicing of all types of Industrial Valves. Being the company with well-equipped set up and out standing team of expert work force, the unit provides both onsite and offsite servicing activities whether the requirement is for one valve or for a complete plant. It has a wealth of multi-skilled engineers who provide complete valve management services for valves of Any Size / Age / Type / Make / Rating / MOC / Temp.



We provide Valve Servicing for the following types.

- Safety Valves, Relief Valves
- Check Valves (NRV) Ball Valves
- Control Valves service & Calibration Hydrant Valves
- Wafer type butterfly valves, Wafer check valves
- Knife Edge Gate Valves (EPDM Rubber Seat Rings)
- Gate Valves Globe Valves
- Sluice Valves
- Plug Valves,
- Non-slam check valves

We offer the following types of Valve reconditioning services:

1. Annual rate contracts for all types of Valves Reconditioning.
2. In-Situ Valves Repairing & testing during Annual Turn Around (ATA)
3. Shut down and emergency valves maintenance.
4. Safety Valves recalibration & testing.
5. Second hand plant refurbishment of valves.

Offshore Labour :

We have a pool of offshore valve technicians who are multi-skilled, with extensive valve expertise. They can be mobilized from all over India in order to carry our service/repair.

MECHANICAL SEALS & PUMP SPARES

We are manufacturing Mechanical Seals, which are chemically compatible with almost every cleaner and solvent. Known for cartridges and anti-clogging features, these Mechanical Seals are used in various industries for preventing frictional and gland packing losses. This in turn saves liquid, increases bearing life, and reduces over all pump maintenance cost.

The materials used in the manufacturing are of excellent quality that ensures high durability and resistivity to various corrosive attacks. Moreover, the inexplicable performance in the respective applications has also played a vital role in the enhancement of the demand of Mechanical Shaft Seals by the national as well as international clients. More over, customers are also facilitated with the availability of the Mechanical Pump Seal as per the specifications and drawings provided.

INDUSTRIAL PUMP SERVICE

We offer a cost effective and comprehensive Pump repair and overhaul service, which can be carried out on site or off site at our well-equipped workshops. We specialize in the repair and refurbishment of all types of industrial pumps for a variety of purposes, including Land Drainage or Irrigation, Petro / Chemical, Power Generation and Paper etc.



Standard Features

- Three models with maximum pressures up to 5000 psig.
- Low pressure system for pilot operated valves.
- Polycarbonate safety shield for operator protection.
- Accept threaded and flanged valves up to 10".
- Accurate digital pressure recorder.
- Bubble counter and adapter for leak detection & measuring.
- Easy-to-use control panel.
- Reduced pressure lost.
- Manual clamping system.
- Communicate with ISOPLAN-5® to produce calibration and test reports.
- Compact Dimension: 1.12 (h) x 0.70(w) x 1 (l) meter, 220 kg, total height with protection: 1.90m.
- Skid-mounted for easy transportation or installation in containers.



CALIBRATION CERTIFICATE

Calibration Certificate										
N°002/2014										
COMPANY: Presys Instruments		REF. N°:		TAG:		12898		PSV1		
INSTRUMENT: SAFETY VALVE		FUNCTION: BOILER PROTECTION		CALIBRATION PERIOD:		12 Months		001		
SECTOR: PLANT/BOILER		CRITICALITY: A		O.S.: SAP003		PROC.:		001		
TECHNICAL INFORMATION										
Manufacturer: CROSBY		Diameter: 10"		Model: OMNI TRIM						
CALIBRATION AND ADJUSTEMENT										
STRATEGY: 1										
INPUT RANGE: Pressure PSV 0,0 to 6,0 (kgf/cm ²)					OUTPUT RANGE: Pressure PSV 0,0 to 6,0 kgf/cm ²					
INITIAL CALIBRATION										
f	Reference (kgf/cm ²)	Reading 1 (kgf/cm ²)	Average (kgf/cm ²)	Error (kgf/cm ²)	Blowdown (%)	U (kgf/cm ²)	k	Accept crit. (kgf/cm ²)		
RESEATING PRESSURE	4,9	4,2	4,2	-0,7	14,29	0,1	2,000	0,5		
SET PRESSURE	5,0	4,9	4,9	-0,1		0,1	2,000	0,2		
SEAT TIGHTNESS: BELOW INTEGRITY:										
FINAL CALIBRATION										
f	Reference (kgf/cm ²)	Reading 1 (kgf/cm ²)	Reading 2 (kgf/cm ²)	Reading 3 (kgf/cm ²)	Average (kgf/cm ²)	Error (kgf/cm ²)	Blowdown (%)	U (kgf/cm ²)	k	Accept crit. (kgf/cm ²)
RESEATING PRESSURE	4,9	4,3	4,3	4,2	4,3	-0,8	16,34	0,1	2,121	0,5
SET PRESSURE	5,0	5,0	5,1	5,1	5,1	0,1		0,1	2,121	0,2
COMMENTS:										
- Used Norm: ASME Section VIII (Gss)										
- Used Fluid: Air										
CALIBRATION CONDITIONS										
LOCATION: LABORATORY										
USED STANDARDS										
Model: PSV-350BAR N.S.: PSV350 N. Cert.: R4286.103 Next. Calib.: 07/10/2014 Scale: Pressure PSV (bar) F/S:(F)										
MAINTENANCE TYPE AND FAILURE CODE										
007- Valve cleaning and adjust										
CALIBRATION DATE: 11/12/2013					NEXT CALIBRATION: 11/12/2014					
COMMENTS										
SAFETY VALVE - Final Calibration 1			SAFETY VALVE - Final Calibration 2			SAFETY VALVE - Final Calibration 3				

The set pressure and reseating pressure are automatically registered and display on the digital pressure registration system and can be send in real time to the ISOPLAN-5® Software.

ISOPLAN-5® calibration software allows you to record all your safety valves technical information and calibration operations in a strong database in order to meet your safety regulations.

It will generate the full calibration report that will included the calibration graphics, calculation of blowdown, photos of the valve before and after maintenance as well as any technical relevant information.

Note :-

Instead of Conventional "Test Bench" of CO₂ / N₂, it gives accurate results and historical data storage facility.

We can reverse engineer a repair; this involves manufacturing and fitting new parts when original spares are no longer available. Pumps can also be coated internally to suit particular customer requirements and specifications.

Each pump is aligned to ensure the pump not only runs efficiently but also minimizes component wear, which in turn extends the life of the pump. We offer all of our high quality services in normal planned maintenance or emergency breakdown situation's.

ON-LINE LEAK SEALING SERVICES



ON-LINE LEAK SEALING UNDER PRESSURE INJECTION SYSTEM rectifies any kind of leak such as Steam, Feed Water, Hydrocarbons, Gas and Chemicals from 0° C to high temperature up to 600° C and at pressure from Vacuumed to 300 Kg/cm²

Industry and Product applications as below :-

- Thermal Plants : Boiler feed water, Saturated & Superheated steam.
- Refineries, Fertilizer & Petrochemical Plants : Steam, Condensate,
- Hydrocarbons, Methanol, Hydrogen, Ammonia, Carbonate
- Steel Works : Steam & Condensate
- Paper / Sugar Industries : Process fluids in contact with aqueous or fatty foods, Oils, Steam etc

Major Areas of Application involved as below :-

- Valve bonnet joint leaks
- Valve gland leaks
- Flange joint leaks
- Pipeline cracks or pinhole leaks
- Pipe union leaks
- Heat exchanger flange joint leaks, Elbow leaks, Etc

Services as below

Services is available round the clock and thought the year. Our Sealing Services are imparted rigorous training prior to taking up leak sealing work independently. Strict technical and safety standards are enforced to ensure safety of personnel and customer's equipment.

Advantages as below :

- Avoid expensive plant shutdown in industrial environment.
- Reduces environmental & noise pollution.
- Conservation of source & non-renewable energy.
- Prevents damage to plant equipment by reducing moisture in environment.
- Avoid costly replacement/re-machining of valves/flanges by preventing formation of grooves caused by continuous leak.
- Prevents re-leaks caused by thermal shocks induced by shutting down & re-starting the pipeline system.
- Save your time, money and effort.

POWER / REFINERY UTILITES & DESALINATION MANPOWER SUPPLY

An Associate of Power Tech group Companies

ISO 9001: 2008 Certified



TECHNICAL MANPOWER CONTRACT

1. PTDC got the prestigious Technical manpower contract from IPP Al dur Power and Desalination plant in BAHRAIN.(GDF suez tractable) Al dur is the major SWRO plant of 40 MIGPD And with 1000 MW combined cycle power plant.
2. PTDC backed the Technical manpower contract from GE-Energy in 2012.
3. Hidd Power company, 967MW and 90 MIGPD MSF and MED Plant, PTD was contracted for Instrument Technicians.

Contact us

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CHENNAI POWER AND DESALINATION TRAINING INSTITUTE (An ISO 9001: 2008 Certified)

About Institute

CHENNAI POWER AND DESALINATION PLANT TRAINING INSTITUTE is a CEA (Central Electricity Authority) Ministry of Power, New Delhi, India recognized Institute. We give Training in Operation, Maintenance, Planning, performance monitoring, Permit system, Health and safety in THERMAL, Combined cycle, Co generation POWER plants. It imparts Training in various desalination Techniques like SWRO, Multi effect desalination, Multistage Flashing. Training is provided by highly experienced Power Plant Professionals using state of the art training tools and equipments. Institute provides an excellent ambience which encourages the trainees.

Institute is equipped with Modern Hostel facility with WI-FI environment. The Institute provides training for everyone working in the power sector including customized training program for government and corporate clients. The Institute is committed to provide the highest quality of services to clients and satisfy their needs.

Simulator Training :

We offer 210mw / 660mw simulator training to Power Plant operation Engineers / Operators. We have tie-up with PSU'S and SEB'S to impart simulator training for the operation staffs.

CHENNAI POWER AND DESALINATION TRAINING INSTITUTE is strategically located in the CHENNAI (MADRAS) TAMILNADU, INDIA, at No: 40A, TVS Nagar 10th Street, Chennai 600 050.

- 23 km. from Airport
- 2 km from Korattur and Villivakam Railway Station
- OFF MTH Road ,PADI Bridge,Near TVS LUCAS BUS STOP,WHEELS INDIA is located very nearby

*Should you however require any further details / clarifications,
please feel free to contact us.*

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