



Aquatic Solutions

Water Treatment Systems & Chemicals
Waste Water Treatment Systems & Chemicals



INTRODUCTION

It is our great pleasure to introduce ourselves as leading manufacturer of Chemicals & Water Treatment Equipments

Aquatic Solutions was started in the year 2006. We handle different activities such as Designing, Engineering & Manufacturing of Equipment's, Piping, Site Erection & Commissioning. Aquatic Solutions has been widely recognized as a reliable source for total and simple solution for Water Treatment Industries.

We work to establish healthy business relations with our valued customer through our best quality and prompt delivery commitments.

Our Speciality:

- Water Treatment Plants/ Multigrade Sand Filter/ Activated Carbon Filter/ Softener
- Purified Water Systems.
- Stainless Steel Storage Tanks
- Stainless Steel Distribution Loops
- Packaged Water Projects
- Ultraviolet System(UV)/ Ozone System
- Reverse Osmosis Plant (RO)
- Ultra Filtration Plant (UF)
- Demineralized Water Systems (DM)
- Electro Dionization (EDI)
- Swimming Pool Filtration Systems
- Effluent Treatment Plants
- Waste Water Recycle Plant/ Zero Discharge Plants
- Sewage Treatment Plant
- Boiler Water Treatment Chemicals
- Cooling Tower Water Treatment Chemicals
- Chilling Tower Water Treatment Chemicals
- Fuel Treatment Chemicals
- Waste Water Treatment Chemicals
- Descaling Services
- Effluent Treatments Chemicals
- Sewage Treatment Chemicals
- Filtration Media/ Sand Media
- Activated Carbon
- Ion Exchange Resins
- Thermax Resins
- All Spares for existing Water Treatment System.

We manufacture different types of tailor made items like Pressure Vessels, Degasser Columns, Storage Tanks, Rubber Lining Vessels, Pressurized and Non Pressurized Equipments, etc. Over the years we have developed necessary infrastructural facilities along with our close associates, to meet the need of high quality equipment conforming to National & International code requirements under third party inspecting services.

Aquatic Solutions touches every component of water and waste water treatment.

We can work with you to implement the best solution for your need.



Water Treatment Systems



Multigrade Sand Filter

This is a depth filter consisting of a mixture of coarse and fine sand. This arrangement allows layer particles to readily penetrate in to the bed. The fine media also produces zones throughout the bed which are conducive to flocculation of smaller particles and their retention.

Activated Carbon Filter

This is pressurized filter containing activated carbon & is supported by supporting media. Our activated carbon filters are very effective against organic compounds and impurities. They are used to reduced the chlorine content in water, it ensures color & odor removal. Carbon filters are most effective at removing chlorine, sediment, and volatile organic compounds (VOCs) from water.

Water Softener

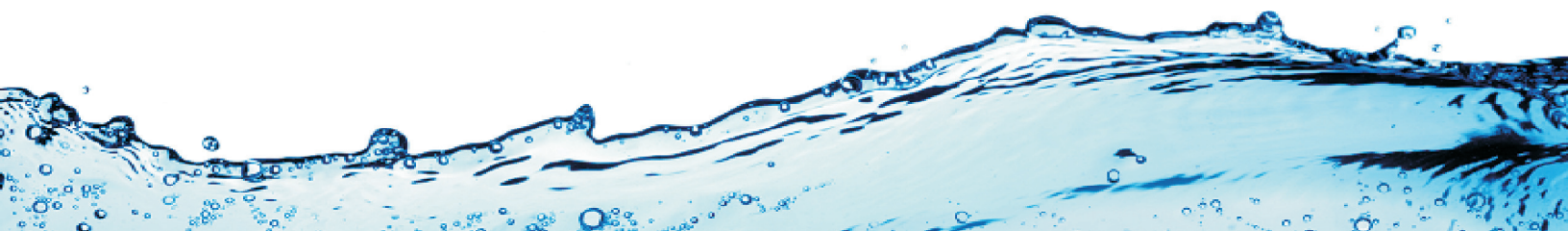
The process of removing divalent cations, usually calcium or magnesium, from water. This contains resin charged with Strongly Acidic Cation Resin in Sodium Form. Calcium & Magnesium Ions are exchanged with Sodium Ions during service operation in order to remove the hardness from Raw Water. Hardness is reduced below <5 ppm which is suitable for Boiler & Cooling Towers

Demineralization System

A strongly acidic cationic exchanger in hydrogen form is used to exchange hydrogen ions for sodium, calcium and magnesium, the cations, producing de-cationised water. This de-cationised water is fed to a column containing strongly basic Anion exchanger in hydroxyl form. Here the anions i.e. Chloride sulphates are exchanged for hydroxyl ion, producing demineralized water suitable for the industry.

Salient Features

- Ability to treat different types of water quality whether effluent water or raw water.
- Available over a wide range of Flow with Automatic & Manual operation.
- Material of Construction: FRP, MS, MSRL, MSEP, SS.
- Longer operating cycles with consistent result.
- Lower Regeneration cost, Lower backwash water requirement hence saving in cost.
- Simple to install and operate.
- Applicable in wide range of Industries.
- In most cases, raw water can be used for backwash.
- Most important; ease in maintenance.
- Specially designed filters for removal of Iron, Zinc, Manganese, Fluorides, Bromide and other heavy metals and chemicals.



Water Treatment Chemicals



OSR- Range of Boiler Chemicals

OSR formulations are developed for the internal treatment of boiler water. The range is a combination of a Polymer and an organo-inorganic formulation to keep boilers free from Scaling and Corrosion. OSR formulation contains corrosion inhibitors, sludge conditioners and Anti- Scalant.

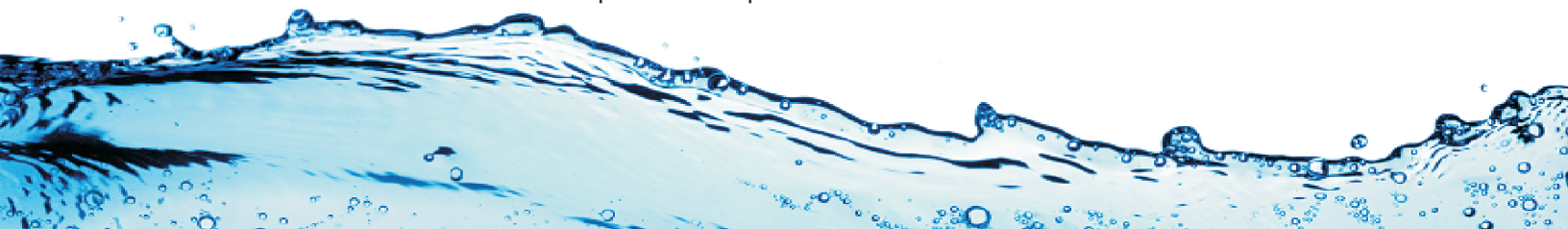
- OSR-321: Prevention & removal of Scale, Corrosion for high pressure boilers.
- OSR-322: Multipurpose Scale & Corrosion inhibitor, Oxygen Scavenging in Low Pressure Boilers.
- OSR-323: Multipurpose Scale & Corrosion inhibitor, Oxygen Scavenging in High Pressure Boilers.
- OSR-324: Multipurpose Scale & Corrosion inhibitor, Oxygen Scavenging in High Pressure Boilers.
- OSR-310: Prevention of Oxygen Scavenging for all types of boilers.
- OSR-311: Prevention of Oxygen Scavenging for high pressure boilers.
- OSR-304: pH boosting & controlling in feed water for all types boilers.
- OSR-301: pH boosting & controlling in feed water for high pressure boilers.
- OSR-303: Condensate pH boosting & Scale Controlling for all types boilers.
- OSR-325: Multipurpose chemical for Prevention & removal of Scale, Corrosion in Hot Water Generator

OSR- Range of Cooling Tower Chemicals

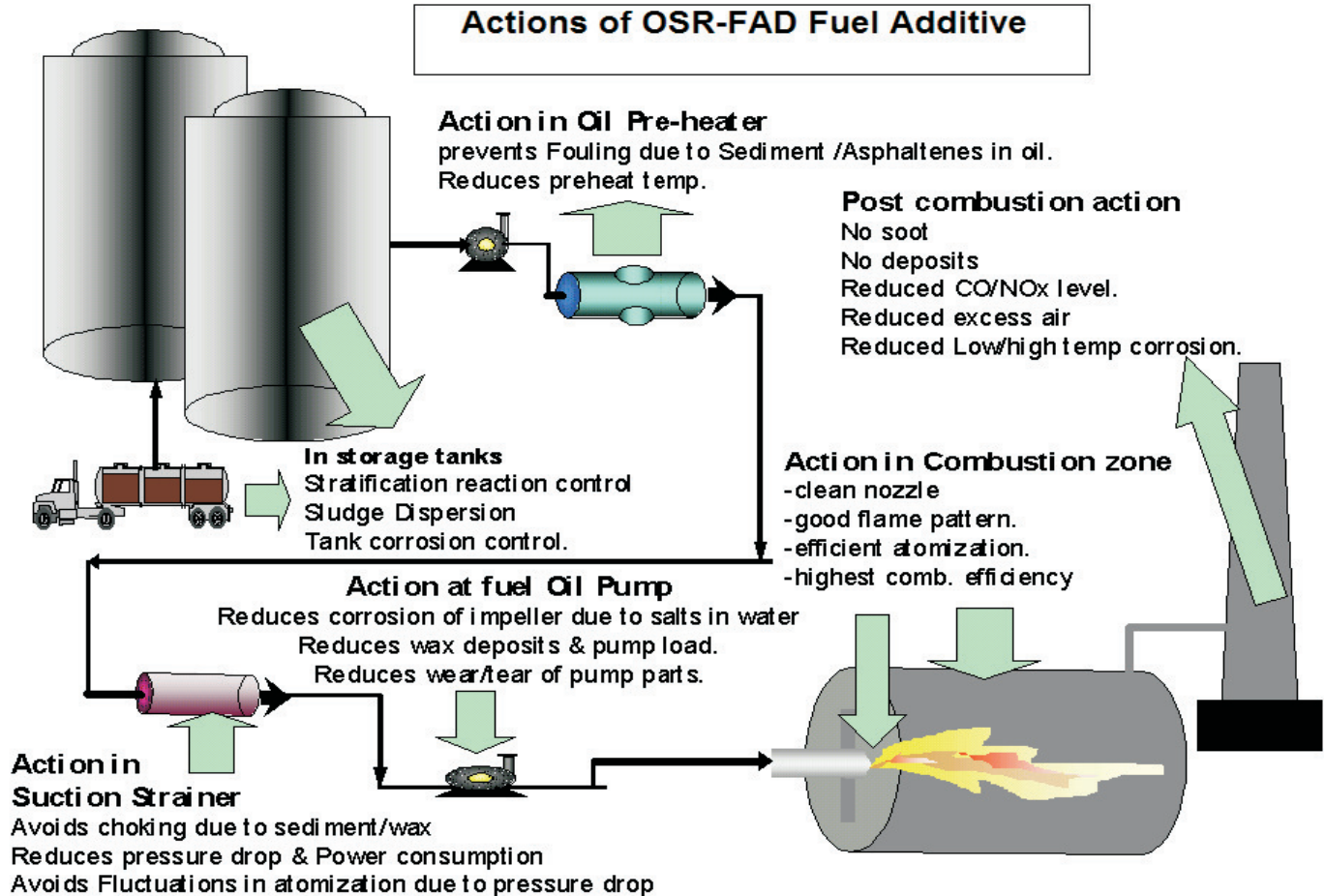
OSR formulations are developed for the internal treatment of cooling water. The range is a combination of a Polymer and an organo- inorganic formulation to keep coolingf water systems free from Scaling, Corrosion and Micro Bacterial growth. OSR formulation contains corrosion inhibitors, Dispersant, Anti- Scalant and Biocides.

- OSR-201: Multipurpose chemical for Prevention & removal of Scale, Corrosion in Circulating Water System.
- OSR-202: Multipurpose chemical for Prevention & removal of Scale, Corrosion in Circulating Water System.
- OSR-203: Multipurpose chemical for Prevention & removal of Scale, Corrosion in Circulating Water System.
- OSR-204: Multipurpose chemical for Prevention & removal of Scale, Corrosion in Circulating Water System.
- OSR-PNT: Prevention of all type Biological growth in Circulating Water System.
- OSR-CBT: Prevention of all type Biological growth in Circulating Water System.
- OSR-QAT: Prevention of all type Biological growth in Circulating Water System.
- OSR-GNT: Prevention of all type Biological growth in Circulating Water System.
- OSR-SPT: Prevention of all type Biological growth in Circulating Water System.
- OSR-BD: Biodispersant, helps remove of all type Biological growth in Circulating Water System.
- OSR-205: pH & alkalinity controlling in Circulating Water System
- OSR-206: Multipurpose chemical for Prevention & removal of Scale, Corrosion in close loop Water Chiller System
- OSR-207: pH & alkalinity controlling in Water Chiller System.

We also manufacture tailor made chemicals as per clients request.



Fuel Treatment Chemicals



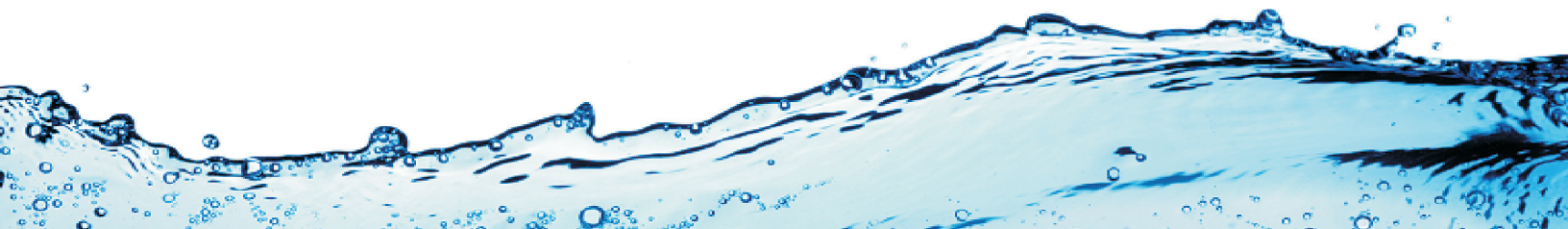
The Fuel Oil Conditioner OSR- FAD

The residue fuel oils namely furnace oil, LSHS, LDO produced by our refineries primarily contain heavy residue namely asphaltenes, poly aromatics and waxes blended with low viscosity hydrocarbons. These oils are high in conardson carbon which creates problem during combustion of the oil resulting into soot formation. Moreover fuel suffers from stratification that is sludge formation during storage in the tanks.

We have developed a fuel conditioner for different industrial fuels i.e. F.O, LSHS, LDO, HSD etc. This helps you to keep your system clean, better efficiency of boiler, less corrosion etc.

- OSR-FAD is a multipurpose fuel conditioner formulation designed keeping in mind typical fuel oil related problems and over all improvement in Fuel economy.
- OSR-FAD contains sludge dispersant and corrosion inhibitor which keeps tank, pipelines strainers & nozzles clean.
- OSR-FAD also contains emulsifier & combustion catalyst which helps to improve the overall combustion efficiency by reduction in soot formation as well as stack Temperature.
- OSR-FAD is to be applied as preventive maintenance for oil fired systems. Regular use will keep the system Clean & trouble-free.

We also manufacture fuel additive for coal, bitumen, baggasse and thermic fluid.



Waste Water Treatment Plant & Chemicals (ETP & STP)



Our goal is to provide clients with a single-point source for all their wastewater treatment needs and to ensure their complete satisfaction not only with the systems themselves but with their long-term performance as well. We not only manufacture exceptionally high-quality systems, but we also offer design services, training, equipment commissioning, chemical formulations, and maintenance after the initial installation.

Systems/Products:

Wastewater Treatment Systems
Filter Press Systems
pH Neutralization
Dissolved Air Flotation
Odour Control Systems.
MBBR Systems
Tube Settlers
Pressure vessels

Lamella Clarifier
Anaerobic Treatment Biological Systems
Heavy Metal Removal
Clarifier Systems
Evaporation Systems
Bio Pac Media Systems
Diffuser Systems
UF/ RO Systems

Sewage Treatment Systems
Continuous Sedimentation
Induced Air Flotation
Sand & Carbon Filters
Aeration Systems
Fluidized Bed Systems
Air Blowers
Zero Liquid Discharge

Chemicals/Services:

Coagulants
Filter Cloth
Sludge Conditioning
Polyelectrolyte
Alum

Polymers
Filter Aids
Lime
DAP
Sodium Hypochlorite

Flocculants
Acids/Alkali
PAC
Urea

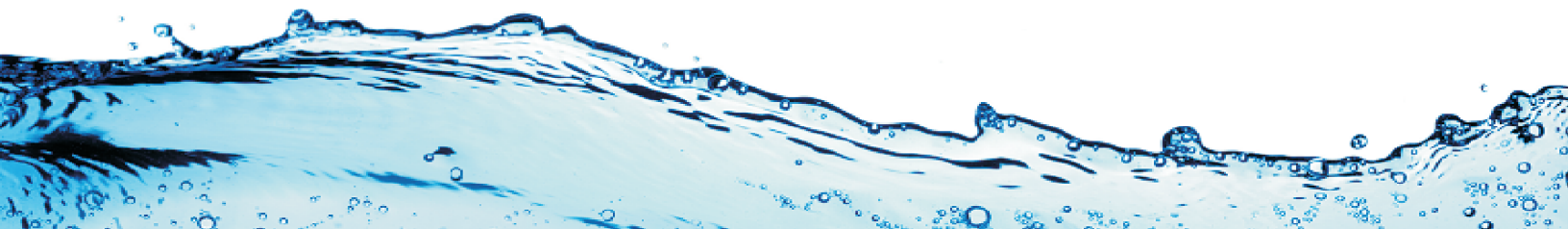
Some of the industries that have benefitted from our wastewater treatment company include: food processing, printing and packaging/corrugated market, paint and coatings industry, metal finishing and plating, vibratory/deburring, municipalities, and miscellaneous industrial facilities that have wet processes.

Our services include:

Chemical Program Design
Project Management
Start-Up & Training

Treatability Studies
Turnkey Installations
Field Service

Permitting Assistance
Chemical Support
System Relocation



Quality Assurance Plan

Drawings:

Based on parameters, design and drafting are done as per relevant code requirement. These are checked by Client / Consultants & approved before commencement of work.

Identification of material and components for pressure Parts (Raw Material):

Verification with manufacturers T.C. with regard to the properties like physical, Chemical, size, finish visual defects & stamping Full Testings to specification at random.

Identification of material and components for Non pressure Parts:

Testing as per material specification with regard to the properties of material, size, finish visual defects.

Incoming and issue of stores material and consumables:

Verification and correction with indents / Test certificates where applicable, Checks of gardens and validity with respect to application in process against job indent.

Quality Control

Active implementation of good quality is our first priority. We are perform all necessary checks & tests activities as per relevant standard codes. We are maintaining the proper documentation for improvement of best quality products & never compromise in quality & commitments of delivery schedule.

Documentation

Aquatic Solutions provides documentation backed with necessary test and calibration certificates with full NABL traceability. For pharmaceutical and biotechnology industry the documentation is done to ensure proper regulatory compliance. (DQ, FAT, IQ, SAT, OQ, and PQ).

The documentation package is well designed and organized to provide validated information on the Project life cycle from design stage to site to acceptance test. Our dedicated Validation Team provides a comprehensive Validation Support to the customer including Validation Protocol preparation, Site Tests activities, Instrumentation Calibration and Validation Reports organization.

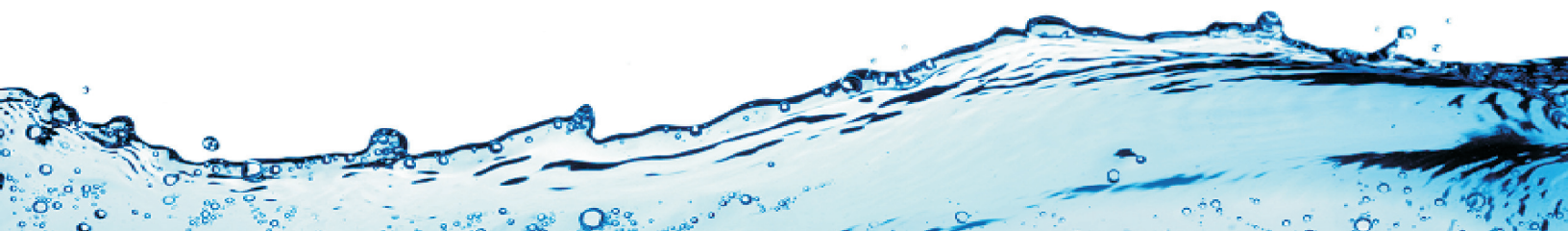
After Sales Service

Team of experienced engineers, welders, electricians, technicians and fitters to repair any equipment, pumps, electrical and Instrumentation of system.

Being the largest supplier and stockiest of Water treatment component, We have considerable inventory in stock for almost all the related equipments, components, spares and parts available round the clock.

Experienced and technically sound Engineers in water treatment technology are available immediately to solve any problem and for effective troubleshooting.

We offer an optional and economically packaged Annual Maintenance Contract at the end of the warranty period which comprises of fixed periodic visits of our service team to service and carried out replacement.



**At Aquatic Solutions
We appreciate your business!**

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