



COMPANY PROFILE



Scan for Website

USA Plant and Office

Steam Equipments USA Inc.

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sales@steamequipmentusa.com

59 Winthrop road, Edison, NJ 08817,

United States of America

About Our Company

Welcome to Steam Equipment USA Inc.—your go-to manufacturer, supplier, technician, and problem solver for one-stop solutions in Analysis and Sampling Systems for liquids, gases, and ambient air. Since our founding in 2003, we've dedicated nearly a quarter of a century to becoming the leading name in steam equipment, driven by one primary goal: ensuring your plant's operational success.

Established by a team of technocrats to address local industrial challenges, we expanded our reach globally in 2004 for major OEM ABB, Honeywell, Teledyne for export projects and SABIC, Chemical Plant in Saudi Arabia, becoming a trusted steam solution provider for numerous OEMs. Today, Steam Equipment USA Inc. is synonymous with innovation and reliability in the steam industry. Our commitment to reducing costs, optimizing technology, and helping our clients stay ahead is what sets us apart.

With nearly 25 years of expertise in the steam and SWAS (Steam & Water Analysis Systems) business, we've grown into a global enterprise with a market share of 60%, a current manufacturing facility spanning 100,000 sq. ft., and over 180 full-time employees. Our special economic zone manufacturing plant is equipped to meet the demands of the modern industry.

Our comprehensive product range includes:

Steam & Water Analysis Systems (SWAS) | Continuous Emissions Monitoring Systems (CEMS)

Ambient Air Quality Monitoring Systems (AQMS) | Water & Wastewater Monitoring

Flow Metering | Vibration Monitoring Systems (VMS) | Moisture & Dew Point Monitoring Systems

We provide complete systems tailored to your needs, including software, SCADA, and PLC requirements. We also specialize in Shelter/Container-based systems for both Safe and Hazardous areas.

With manufacturing and testing facilities across the USA, Pune, Bangalore, South Africa, UAE, and Singapore, Steam Equipment USA Inc. is well-equipped to cater to your integrated process monitoring needs. We export to over 40 countries worldwide and are poised for even greater growth, thanks to our valued customers.

Steam technology has evolved significantly since the 17th century, and today it plays a vital role in industries ranging from power plants and petrochemical facilities to dairy plants and petroleum refineries. Wherever steam or hot water is needed, we provide the products, services, and automation expertise to keep your systems running efficiently.

Process Steam Boilers | Chemical Dosing Systems | DM Plants | Flow Meters | Switchgear Automation and Instrumentation Solutions | Briquette Plants and Steam Selling | Close Loop Sampling Systems | Refinery Quench Water Sampling Systems

Heavy Fabrication | SS Panels, MCC Panels, HT, LT Panels (E&I) | DM/ETP/STP Plants | Heat Exchangers (Plate Type and Shell & Tube with U Stamp)

Refinery Samplers and Sample Coolers

You know your plant. We know how to help you stay ahead. Let's get started on ensuring your continued success with the power of steam.

Our Values



Quality



Genuinity



Creativity

Vision

Our vision is to become a globally recognized leader in designing and manufacturing world-class Sampling Systems with minimal maintenance requirements. We aim to support OEMs (Analyzer Manufacturers) by delivering high-quality systems that meet Environmental, Health, and Safety standards.

Mission

Our mission is to stay ahead of market standards and innovation trends, ensuring our products are always cutting-edge. We focus on assembling products with the utmost precision, leveraging our experienced engineers to minimize maintenance time. By sourcing raw materials from top-tier vendors, we ensure excellence in every product.



Quality Policy

ISO-9001:2015 certified, IBR

We at Steam Equipments Pvt. Ltd. are committed to Design, Manufacture, Supply and After-Sales of Gas, Liquid, and Oil Analytical Systems including Steam and Water Analysis Systems (SWAS) and Sample Coolers used in Refineries, Power Plants, and Process Industries as per the needs and expectations of our customer to meet customer satisfaction.

This commitment is shared by all employees and is an integral part of the fundamental values of our company. We promote risk-based thinking and fulfill the requirements of interested parties.

We shall achieve this by continual improvement of Processes, Products, Services, Employee Training and Quality Systems to meet customers' expectations and thereby establish a long-term association.

Rasheed Syed
Managing Director



PRODUCT PORTFOLIO

Solutions in Power Plant



Solutions in Power Plants

01 SWAS SYSTEM

Available in different configurations - modular, combined, walkway-type, standing rack, plate mounted. In compliance with ASME PTC 19.11. The design provides safety to the equipment ensuring longevity and trouble-free operation. Can be installed and commissioned in record time.

With MOC as FRP, CRCA, or SS-316 according to the customer's requirements.



1.1 SAMPLE COOLER

Compact Design, Very Close Approach Temp, Truly Counter-flow design
Designed as per International standards ASTM, ASME, GDCD
Fully Stainless steel material, Removable coil & Shell, No Welded Joints
Monel / Super duplex / Inconel wetted parts as per plant requirements



1.2 THERMAL SHUTOFF VALVE WITH CONTACTS

Replaces traditional switches and solenoid valves, MCB, etc
Fully Stainless Steel Construction, Automatic Reset. Suitable for Water, Gas, and other process industries. No Electrical power supply is required.
Operates in any orientation.
Ram-type Plug provides Tight Shutoff.
Manpower saving on electrical and switches maintenance



1.3 PRESSURE REDUCERS - VRTS (PATENT APPLIED)

Rod-in-Tube type design as per recommendations of ASME PTC 19.11
Built-in Thermal Shutoff valve, Built-in relief Valve
Built in Lab sample valve, Built-in Sample Flushing Valve
On-Line cleaning using line pressure without removing any components
Monel / Superduplex / Inconel wetted parts as per plant requirements



Solutions in Power Plants

1.4 SAMPLE FILTER

Used to trap particles up to 40 microns and prevents choking and reduces the plugging of the sampling lines. This filter comes with an online cleaning arrangement with an optional blowdown port. 40 Micron Sintered Stainless steel filter elements. Suitable for corrosive applications. Compact design. Spring Loaded, Easy to clean. Stainless steel body material.



1.5 BACK PRESSURE REGULATOR

Back pressure regulator for gas or liquid service, is used to maintain the constant pressure in sampling system or act in a relief valve capacity. These regulators are generally used at the outlet of grab sample.



1.6 PORTABLE CATION CONDUCTIVITY METER

This portable system is available in two configurations: as a Trolley Mounted System or as a Hand Carry (can easily be carried in the hand). It consists of an After Cation Conductivity Meter for offline measurement of After Cation Conductivity values of various Steam-Watersamples.



1.7 THERMAL SHUT OFF VALVE (MECHANICAL)

Quick and rapid shut-off without actuators. This Mechanical TSV saves analyzers, sampling components, and other devices from high temperatures that could lead to its damage. Compact design and easy to install. Corrosion resistant and wide choice of set points.



Solutions in Power Plants

02 DEGASSED CATION CONDUCTIVITY

A new design for conductivity measurement for power cycle chemistry monitoring. By providing conductivity measurement in compliance with ASTM D4519, this system provides assurance of water purity to maximize power production and minimize corrosion. Unambiguous measurement of trace levels of corrosion causing contaminants is enabled with effective operator supervision. A must product for startup and supercritical Boilers.



03 ISOKINETIC SAMPLING PROBE

Recommended by EPRI Standards
Fully Forged SS-316 H Body Material
Designed as per EPRI and ASME Standards
Completed designed and validated by Creep Calculations
Installed in 800 MW Thermal power plants
4500 Class Compact Globe valve for easy control



04 FRP SHELTER FOR WATER QUALITY EFFLUENT MONITORING ANALYZERS (WEMS)

Generally made up of Fiberglass Reinforced Plastics offer moisture resistance, and scratch resistance, and are equipped with non-porous indoor panels. Cost-effective panels are highly modifiable and easily repairable due to the usage of flexible reinforced plastics.



PRODUCTS IN THIS CATEGORY

Steam and Water Analysis Systems (SWAS) – FIT-SWAS, Modular SWAS, Containerised SWAS, Lab Sampling Module, Plate Mounted System, Open Free Standing Rack, Walkway Type System, Combined System.

SWAS Components – Sample Cooler, Back Pressure Regulator, Sample Filter, Resin Column, Pressure Reducer, Thermal Shutoff Valve, Rotameter, Coolant Flow Indicator, Flow Switch, Pressure Gauge, Temperature Gauge, Iso-Kinetic Sampling Extraction Probes, Sampling Tubes.

Sample Coolers – Refinery Sample Coolers for Closed Loop Sampling System, Coil in Coil Sample Cooler.

FRP Panels for Water Effluent Monitoring Systems, Close Circuit Cooling Water Systems, Local Instrument Racks and Panels for Transmitters, Manifolds and Fittings, and Instrument Valves.

Solutions in Power Plants

Process Gas Analyzer - Oxygen Analyzer (Fixed), Oxygen Analyzer (Portable), Thermal Conductivity Analyzer, Hydrocarbon Analyzer, Infrared Analyzer, Nitrogen Analyzer, Nitrogen Oxides (NOx) Analyzer, Ammonia Analyzer and Sulphur Analyzer.

Water Quality Analyzer - pH Analyzer, Conductivity Analyzer, Dissolved Oxygen Analyzer, Chlorine Analyzer, TOC Analyzer, Silica Analyzer, Iron Analyzer, Oil in Water Analyzer, Hydrazine Analyzer, Hardness Analyzer, Chloride Analyzer, Phosphate Analyzer (Yellow Method), Phosphate Analyzer (Blue Method), Dissolved Zinc Analyzer, Sulphate Analyzer, Aluminium Analyzer, Cyanide Analyzer, Manganese Analyzer, Nitrite Analyzer, Sodium Analyzer, Alkalinity Analyzer, Ion Selective Analyzer, Sulphide Analyzer, COD-BOD-TSS Analyzer, Turbidity Analyzer, Optical DO Analyzer, Sequencer.

Dew Point Meter - Model-SE-DEW-100, Model-8800A, Model-8800B, Model-8800T, Model-8800P.

Flowmeter - Electromagnetic Flowmeter, Vortex Flowmeter, Coriolis Flowmeter, Ultrasonic Clamp-On Flowmeter.

Sampling System - Quench Water Sampling System for pH Measurements, Sampling Systems for Gas Detection Systems, Sea Water Sampling Systems.

Degassed Cation Conductivity

Chillers & HVAC

Shelters



PRODUCT PORTFOLIO

Solutions in Oil & Gas Industries



Solution in Oil & Gas Industries

01 QUENCH WATER SAMPLING SYSTEMS FOR PH MEASUREMENT

Motorized, Fully Automatic control
Flow adjustments through DCS or Controller
Fail-Safe Alarm, Over-tight protection interlock, Contactless flow sensors
Rod-in-Tube type design as per recommendations of ASME PTC 19.11
Automatic Cleaning in case of choking
Flow and pressure adjustable through DCS
Built-in Thermal Shutoff valve, Built-In relief Valve



02 COD-BOD-TOC-TSS ANALYZER

One Analyzer to measure four factors – Chemical Oxygen Demand, Biochemical Oxygen Demand, Total Organic Carbon and Total Suspended Solids. Fast response, effective measurement, high accuracy and easy to operate.



03 REFINERY COOLER

Designed as per ASME SEC-VIII Div -1
Open-type Sample Coolers. Shell Material: A106 Gr B / SS-204 / SS-316 / Inconel 625.
Tube Material: A106, SS-316, Inconel-625, Monel 400
100% Radiography | 100% PMI | 100% PWHT
All internal surfaces are PTFE / Polyurethane painted with Epoxy primer



04 CLOSED LOOP SAMPLING SYSTEMS

This draws in process fluid and flows it through the sampling point where a portion of the sample is collected in a sealed container. Then, the system returns the fluid to the main process. This is all achieved without exposing the operator or the atmosphere to the fluid at any point. Because these systems can eliminate waste by returning fluid to the main process and can shield operators and the environment from exposure to the fluid, they make the best method to help operators reduce emissions and maintain safe working environments.

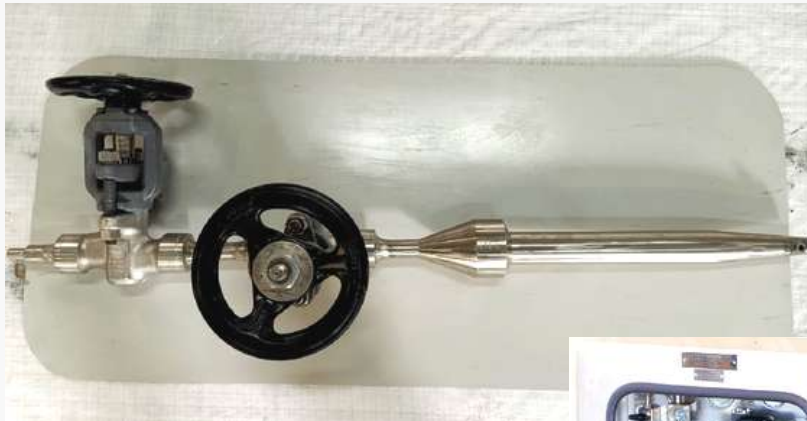


OTHER PRODUCTS IN THIS CATEGORY

Air Purge Rotameter

PRODUCT PORTFOLIO

Solutions in Process Industries



Solutions in Process Industries

01 OXYGEN ANALYZERS

Measurement of Oxygen using different technologies - Paramagnetic, Micro-Fuel Cell, Electrochemical, Zirconia. Output expressed as % or ppm. Different ranges for measurement.



02 CLOSED SAMPLING SYSTEMS

These systems provide rapid measurements in process stream quality. These can be used primarily for monitoring government-mandated requirements concerning pollutants in ambient air, stack emissions and effluent steams.



03 ISO-KINETIC EXTRACTION PROBES

(Refer to Page No. 07 for description)

PRODUCTS IN THIS CATEGORY

Process Gas Analyzer - Oxygen Analyzer (Fixed), Oxygen Analyzer (Portable), Thermal Conductivity Analyzer, Hydrocarbon Analyzer, Infrared Analyzer, Nitrogen Analyzer, Nitrogen Oxides (NOx) Analyzer, Ammonia Analyzer, Sulphur Analyzer, Sulphur Oxides (SOx) Analyzer, CO Analyzer, CO2 Analyzer.

Dew Point Meter - Model-SE-DEW-100, Model-8800A, Model-8800B, Model-8800T, Model-8800P.

Flowmeter - Electromagnetic Flowmeter, Vortex Flowmeter, Coriolis Flowmeter, Ultrasonic Clamp-On Flowmeter.

Sampling System - Quench Water Sampling System for pH Measurements, Sampling Systems for Gas Detection Systems, Sea Water Sampling Systems.

Degassed Cation Conductivity.



PRODUCT PORTFOLIO

Solutions in Environmental



Solutions in Environmental

01 CONTINUOUS EMISSION MONITORING SYSTEM

The analyzer adopts UV differential optical absorption spectroscopy (DOAS) which can precisely measure concentrations of trace gases using the absorption spectrum by gas components.
Quick response time.

High measurement Accuracy, high reliability, and wide application scope.



02 DUST MONITOR (OPACITY MONITOR)

Designed for the analysis of combustion gases. Available in different configurations such as Model ZGF-500 Zirconia Oxygen Analyzer, Model 7873 Zirconia Oxygen Analyzer, Model 6801 Zirconia Probe, Model M7873 Zirconium Oxide Oxygen Analyzer, OxyPink.



03 EFFLUENT QUALITY MONITORING SYSTEM (EQMS)

The UV/Vis Spectrometer System is capable of simultaneously detecting multiple parameters and offers a broad range of control functions. Adjustable Optical Path length, Automatic Cleaning, No Consumables, Deployable Upto + 110 °C, Remote Access Control.



PRODUCTS IN THIS CATEGORY

Continuous Emission Monitoring System - Flue Gas Analyzer (SO_x, NO_x, CO, CO₂), Laser Gas Analyzer, CO Analyzer, Hot Wet Extractive System, Integrated Monitoring - TPF 100

Effluent Quality Monitoring System

Combustion Efficiency Analyzer - Model ZGF-500 Zirconia Oxygen Analyzer, Model 7873 Zirconia Oxygen Analyzer, Model 6801 Zirconia Probe, Model M7873 Zirconium Oxide Oxygen Analyzer, OxyPink

Opacity / Dust Monitor - DSL-340, DSL-460, DSL-320, Back Light Scattering Opacity Monitor.

PRODUCT PORTFOLIO

Solutions in Water Quality



Solutions in Water Quality

01 PH/CONDUCTIVITY/DO/ORP/RESISTIVITY/SPECIFIC ION ANALYZER WITH UNIVERSAL TRANSMITTER

Measure pH, ORP, conductivity, resistivity, dissolved oxygen, specific ion (pION), turbidity, or chlorine dioxide. Intelligent sensors provide configuration and calibration parameters to the transmitter. Insertion/Submersion and Valve Retractable Designs
Microprocessor-based electronics with menu-driven functionality
Luminescent LCD display with easy-to-view numerical & graphical representations
Digital outputs-MODBUS, HART.



02 CHLORINE ANALYZER

This features a plug-and-play design that incorporates a constant head flow control device, a pH sensor, a Chlorine sensor, and the Universal analyzer/transmitter. The Free Chlorine Sensor measures only the hypochlorous acid component of the free chlorine and the analyzer calculates the balance using either the measured pH or a user defined fixed value. The use of the pH sensor provides accurate compensation for samples between pH 6 and pH 9 eliminating the need for expensive sample conditioning systems to control the pH of the solution.



03 SILICA ANALYZER

The Silica Analyzer is an on-line sequential sampling analyzer, a sequence of sampling, analysis, and result processing is performed and repeated using colorimetric methods. The measurement is a colorimetric analysis using an LED light source and a heated colorimetric cell designed for measuring trace amounts of analyse in water.



PRODUCTS IN THIS CATEGORY

Water Quality Analyzer - pH Analyzer, Conductivity Analyzer, Dissolved Oxygen Analyzer, Chlorine Analyzer, TOC Analyzer, Silica Analyzer, Iron Analyzer, Oil in Water Analyzer, Hydrazine Analyzer, Hardness Analyzer, Chloride Analyzer, Phosphate Analyzer (Yellow Method), Phosphate Analyzer (Blue Method), Dissolved Zinc Analyzer, Sulphate Analyzer, Aluminium Analyzer, Cyanide Analyzer, Manganese Analyzer, Nitrite Analyzer, Sodium Analyzer, Alkalinity Analyzer, Ion Selective Analyzer, Sulphide Analyzer, COD-BOD-TSS Analyzer, Turbidity Analyzer, Optical DO Analyzer, Sequencer.

Degassed Cation Conductivity.

PRODUCT PORTFOLIO

Solutions in Steam Engineering (SteamLok®)



* SteamLok® is Steam Equipments' subsidiary that deals with all things Steam Engineering.

Solutions in Steam Engineering

01 STEAM TRAP

Types: Thermodynamic, Ball Float, and Thermostatic.
Available in different sizes and configurations.
The Steam Trap by SteamLok® is a Patented Product.



02 AUTOMATIC BLOW DOWN CONTROL SYSTEM (ECO BLOW)

Automatic Blow down Control.
No manual intervention.
Programmable PLC-based controls.
Available in both the options of Timer and TDS Based System.



03 FLASH VESSEL

Optimized design to get maximum flash steam.
It comes totally assembled and mounted on a skid for a 'fit it and forget it' installation.



04 PRESSURE REDUCING AND DE SUPER HEATING SYSTEM

Full alloy steel pressure-reducing stage.
Good turndown ratios on steam and water flow.
Excellent control of pressure and temperature of steam due to the high accuracy of Sensors & Electronic PID Controllers.
Designed specifically for critical applications with high-pressure ratios.
Purpose-designed industrial grade control valves, with stellite trim where required, V-port or perforated plug options.
Simple and rugged De superheating, with no moving parts in de superheater.
Easy integration with plant DCS or PLC Control Systems due to open standards. Packaged system with IBR approval.
Ram-type Plug provides Tight Shutoff.
Manpower saving on electrical and switch maintenance.



Solutions in Steam Engineering

05 STEAM OPERATED CONDENSATE PUMP (ECO CRS)

It is a completely mechanical type of pump.
No electricity and Pneumatic air are required for operation.
Operational cost is very negligible.



06 CONTROL VALVE

Top or side-mounted hand wheel. High Flow capacity and range ability.
A large variety of trim designs.
Top entry for ease of inspection and maintenance.
Tight closing for reliable control even when changes in pressure/temperature are sudden and extreme. Wide selection of actuators to meet most system requirements.
Rigorously proven on-site performance.



07 DE AERATOR HEAD

Removes Air, Oxygen, and other non-condensable gases.
Provides effective mixing of BFW with available thermal streams.
Immersed Perforated Pipe allows uniform heating in the Feed water tank.
Improves efficiency of Boilers by preheating Feed water.



PRODUCTS IN THIS CATEGORY

Pressure Reducing and De Super Heating System, Control Valve, Flash Steam and Condensate Recovery, Flash Vessel, Steam Operated Condensate Pump, Moisture Separator.

Boiler House Products – Automatic Blow Down Control System, De-Aerator Head.

Steam Accessories – Piston Valve, Disc Check Valve, Ball Valve, Steam Strainer (Y-Type), Steam Manifold, Hot Water Generator (PHE Based), Wash Down Station.

Steam Trap – Thermodynamic Steam Trap, Ball Float Steam Trap, Thermostatic Steam Trap.

Our Projects (Exports)



AL-GHANIM,
KUWAIT

YEOSU,
KOREA



SABIC,
SAUDI ARABIA

Our Projects (Exports)



SAMPLING
SYSTEM TO
JORDAN

SAMPLING
SYSTEMS TO
SOUTH
AFRICA



WATER QUALITY
SYSTEMS -
OMAN / QATAR

Successful Commissioning Reports (Domestic)

STEAM Equipments
 Steam Equipments Pvt Ltd
 No. 44, Taty Co. Dr. Industrial Estate
 Madhav Nagar, Pune - 411 004,
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 Email: sales@steamequipments.com
 support@steamequipments.com
 http://www.steamequipments.com

DCGC System Commissioning & Handing over Report FORMAT NO: EPL/NER/036

Date: 10/12/2021

Customer Name: NTPC Kavarati (Dujarat) PO No: 400022828
 PO Date: 15/11/2019

Project Name: Kavarati Gas Power Project
 Project Detail: Sp. CC, DGC online Measurements
 Product Model: SEPL Make DGC System 02 no's Multi 02 Sample Line
 Process Details: 31KAS Water Sample Line

Visit Duration: 03 Days From: 10/12/2021 to 10/12/2021
 My SEPL Service Engineer visited the site for commissioning of 02 nos of DGC system and in this visit, work has been carried out.

- 1) Checked Installation point, Man MCC and Erection with proper place and found ok.
- 2) Checked all wiring connection and tightened proper found ok.
- 3) Checked all sensor wiring and power wiring and powered ON the system and found ok.
- 4) 02 no's of system taken online with proper setting of flow and set points found ok.
- 5) Checked multi sample line solenoid valve actuating with the help of pressing manual mode found that solenoid change over and working healthy.
- 6) Sp. CC, DGC sensors calibrated with they and span found ok.
- 7) Found that Analyzer value and HMI Values are matching released the PLC program and compared both found ok.
- 8) 02 no of system Analyzers and HMI display values are matching found ok.
- 9) Checked heater safety interlock flow meter sensor working healthy.
- 10) Checked heater out TN and out OFF at the set point of 100 deg Max and 99.95 deg Min found working healthy.

STEAM & Water Analysis system (SWAS) Continuous Emission Monitoring system (CEMS) Vibrating Monitoring (VMS)
 Ambient Air Quality Monitoring (AAQM) Boiler manufacturer (B/M) Hazardous Area Liquid & Gas Analyzers
 Moisture Analyser & Sampling System Gas Analyzers & Sampling System Non-Standard Sample coolers

एनटीपीसी NTPC
 A Maharatna Company

STEAM Equipments

MOU BETWEEN M/S STEAM EQUIPMENTS PVT.LTD AND NTPC LTD. P.O. NO: 400055156/16.07.2019
 M/S Steam Equipments Pvt Ltd representative arrived at NTPC Kavarati site on 12th September for Commissioning of SEPL make Degraded Cation Conductivity meter Supplied vide P.O. No 400055156/ dated 16.07.2019.

The following activities were carried out by him during this Period.

- 1) 04 no's of Conductivity sensor installed and wiring done.
- 2) 04 no's of DEGAS system sample cooler and heater replaced with new modified Delta system.
- 3) 4th DEGAS system mounting rack fabricated and installed in DM plant.
- 4) New Digital Sensor installed in Unit 3 Degas System.
- 5) DEGAS mounting rack fabrication done and installed and commissioning of 04 Nos of DEGAS System completed found satisfactory.
- 6) 04 nos of DEGAS system commissioned and 4.20 mA hooked up from all Analyzers and HMI, DCS communication completed found satisfactory.
- 7) Sp conductivity, cation conductivity, Calculated pH readings compared with existing NTPC SWAS system Analyzers found matching.
- 8) NTPC requested to provide Complete BOM with Manufacturer and Complete Wiring Drawing. M/S Steam Equipments agreed to provide the same by 20th October.
- 9) System Successfully Commissioned & is Under Observations as Units are not running. The defect Liability/Warranty Starts from 16.10.2020

Date: 16.10.2020

SEPL PVT LTD:
 1) Satish Gani
 2) Prashant
 3) PVSS Sarna

NTPC Ltd:
 1) Suresh Menon
 2) P Ramach
 3) PVSS Sarna

STEAM Equipments
 Steam Equipments Pvt Ltd
 No. 44, Taty Co. Dr. Industrial Estate
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 http://www.steamequipments.com

Commissioning & Handing over Report FORMAT NO: EPL/NER/036

Date: 04/11/2021

Customer Name: JMW Battery PO No: 123004083 Dated: 18/09/2021

Project Name: Sp. CC, DGC System
 Project Detail: DGC System
 Product Model: SEPL
 Process Details: Online measurement

Visit Duration: From: 25/10/2021 To: 04/11/2021

Sr No.	Action Point	Remarks	Action By
1	System Successfully Commissioned & Handed Over further continuous operations. (performance is under observation)	Yes	SEPL
2	Operating & Maintenance Training given to Customer (if manual is to be provided)	Yes	SEPL
3	Standard Spares List given & requested to maintain the stock of required spares (List to be provided)	Yes	SEPL
4	Final Payment hold of O/S against Commissioning will be released by	Within 30 days	JMW
5	Quotation for ARC given	Need to be submit	SEPL
6	Warranty Terms & Condition explained - (Defect Issues due to Poor Maintenance, Consumables, Physical Damage does not cover under warranty)	Yes	SEPL
7	Readings observed with Analyzer and HMI are matching as shown below	Yes	SEPL
8	CEP sample line - Sp 4, CC 0.25, DGC 0.18, micro sensors found ok. Cell contains 0.01 for all three sensors	Yes	SEPL/JMW

Customer Name: JMW Energy Ltd For STEAM EQUIPMENTS PVT. LTD.
 D. Nageswara Rao Sushant Gani

STEAM & Water Analysis system (SWAS) Continuous Emission Monitoring system (CEMS) Vibrating Monitoring (VMS)
 Ambient Air Quality Monitoring (AAQM) Boiler manufacturer (B/M) Hazardous Area Liquid & Gas Analyzers
 Moisture Analyser & Sampling System Gas Analyzers & Sampling System Non-Standard Sample coolers

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Commissioning Visit Report

Date: 18/JUNE/2022

Customer Name: APCR (DHARI) DHULIAB HARBANA PO No: 400003070
 PO Date: 31/05/21

Project Name: APCR (DHARI) DHULIAB HARBANA
 Address: DCC ANALYZERS
 Project Detail: DCC ANALYZERS
 Product Model & Sr. No.: Make Steam Equipments
 Process Details: Water and Steam

SEPL engineer Mr. KULDEEP SHARMA visited the site for commissioning of 03 nos DCC ANALYZERS against mentioned P.O.

Visit Duration: 05 Days From: 14/06/2022 to 18/06/2022



Activities Done During Visit in all 03 nos DCC panel system unit:


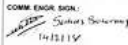

1. 03 nos proximity switches installation done and working fine.
2. One indicator found broken in DCC panel in 02L replaced with new customer D-2104.
3. All 03 nos Sensors and sensors chamber cleaning done with DM water.
4. Air problem in all 03 nos DCC panel resolved by extending inlet and outlet tubing line of the robotometer and other heater. Sensors are now sensing flow at No flow and heater is tripping as per logic.
5. Heater start delay after tripping flow switch changed from 10sec to 50 sec in logic in all 03 nos DCC panel.
6. Protection interlocks checking of heater with flow switch and RTD checked found normal.
7. Mismatch between display reading at transmitter end and PLC was observed for U01 Spec. Conductivity and U03 DCC Transmitter O/P was calibrated. Now OK.
8. Commissioning of all three DCC analyzers have been completed. *कुलदीप शर्मा*

Pending points:
 1. Wiring connection data of DCC panel to be submitted before 30th June, 2022.

STEAM & Water Analysis system (SWAS) Continuous Emission Monitoring system (CEMS) Vibrating Monitoring (VMS)
 Ambient Air Quality Monitoring (AAQM) Boiler manufacturer (B/M) Hazardous Area Liquid & Gas Analyzers
 Moisture Analyser & Sampling System Gas Analyzers & Sampling System Non-Standard Sample coolers

Successful Commissioning Reports (Exports)

	
JOB NO: SUHASSEPL/YOKOGAWA/SEPCO II Kuwait	DATE: 12-07-2018
CUSTOMER: SEPCO II	
CONTACT PERSON: Mr. Zayed Fajr (SECO)	
ENCLOSURE: Three (3) Site Analysis South Site Turbines in Combined Cycle Plant (CCGT-3)	
CONTACT PERSON:	
Purpose OF VISIT: Site Commissioning of WQMS, SWAS, HOTWELL System.	
DETAILS OF SITE ACTIVITY:	
<ul style="list-style-type: none"> WQMS: HOTWELL commissioning done and handed over to SEPCO II for further operation. For SWAS Bath shifter and handed over with satisfactory function except all Analyser, 1 HVAC of HRSG 12 SWAS. (Due to compressor fail) 	
WQMS :-	
<ul style="list-style-type: none"> WQMS Sampling panel commissioning done with sample. Yokogawa Mera pH analyser calibrated with standard buffer solution (7.39pH) and commissioning done. 4-20 mA checked. Yokogawa Mera DO analyser calibrated with the standard solution and commissioning done. 4-20 mA checked. Takymex FCL & pH analyser calibrated with the standard solution and commissioning done. 4-20 mA checked. Hemera makes CW & CO analyser commissioned and check with Zero with DM water as per standard procedure. 4-20 mA & Fault configured through PLC. Sample pump operating modification done with DCS. Mr Yokogawa/SEPL request to SEPCO II Engineer for provide necessary input of wiring changes to update the final Electrical document. System demonstration & Training provided to MEW Engineer & SEPCO II engineer for sampling and calibration of analyser. 	
SWAS 11 & 12 :-	
<ul style="list-style-type: none"> Power up all SWAS analyser and found ok. Submit Essential analyser mA range to SEPCO II engineer. Sample and drain tubing done for SWAS. Bottom and Hydroxide analyser check the function with Sample equipment & found ok. System inspection done with MEW & SEPCO II Engineer. Regarding HVAC issue. We have resolve the HRSG11. Now for HRSG11 both HVAC is working fine and satisfactory. For HRSG 12 HVAC One is working fine and remaining one HVAC compressor found faulty. We will revert on this item during commissioning time. From both HRSG11 & HRSG12 SWAS Shifter will be handed over to SEPCO II. (Chlor unit. Fire safety HVAC. Sampling system with the satisfactory test) only Analyser commissioning pending from our site & HRSG 12 one HVAC. 	
HOTWELL :-	
<ul style="list-style-type: none"> Panel Erection, power, and sampling has been done. Sample pump checked. Power up the analyser and mA configured. It found ok. Check Chemkellflu analyser zero with air and local sample and reading found ok. System inspection done with MEW & SEPCO II Engineer. 	
Note:-	
<ul style="list-style-type: none"> We are requesting to Mr SEPCO II team. Kindly inform us for SWAS commissioning when all sample are available at panel. We are request to SEPCO II team. to run only One HVAC at one time. keep the Second one is OFF mode. 	
	
SEPL/YOKOGAWA/SEPCO 120110018	Page 1 of 2

	
JOB NO: SUHASSEPL/YOKOGAWA/SEPCO II JORDAN	DATE: 14-02-2018
CUSTOMER: SEPCO II	
CONTACT PERSON: Mr Javed	
ENCLISES: NPTCO	
CONTACT PERSON:	
PDSOUGL PH Analyser (Qty- 5 Nos.)	
Tag No. (4500H10C002, 4500H10C003, 4500H10C004, 4500H10C005, 4500H10C006)	
Make: YOKOGAWA, Model: FLX421 Ref-Sensor: SR20-C32, Mea-Sensor: SR21-AGA, Temp: SM60-T1	
NATURE OF VISIT:	
Installation () / Commissioning () / Service () / Replacement () / Survey for modification ()	
DETAILS:	
<ul style="list-style-type: none"> Power, signal, actuator and liquid earth cable made connected to PH Analyser. After checking all the wiring connection analyzer power made "ON" and checked the configuration. A/S: New. Analyser (4500H10C002, 4500H10C003, 4500H10C004, 4500H10C005, 4500H10C006). Checked the sampling system. Installed PH Reference sensor (Model: SM21-AG11) PH reference sensor (Model: SR20-C32) and Temp sensor (Model: SM60-T1) in the PH chamber (Model: FF 30). The Analyser calibrated with 3RD PH standard solution (refer the calibration procedure mention in user Manual 5-1. Manual calibration mode, page No. 78). The error above mentioned signal tags are linked to DCS from Analyser Unit and Shows in DCS graphics. Training on PH analyser given to SEPCO II Power station engineers and technicians at site for calibration and maintenance dated 07 Feb 2018. 	
Note: - PH chamber always needs to fill with sample water. If this PH chamber is empty more than 4-5 days. It will be damaging PH sensor.	
OVERALL REMARKS:	
COMM. ENGR SIGN:  14/02/2018	CUSTOMER SIGN:  14/02/2018
SEPL/SEPCO 000018	Page 1 of 1

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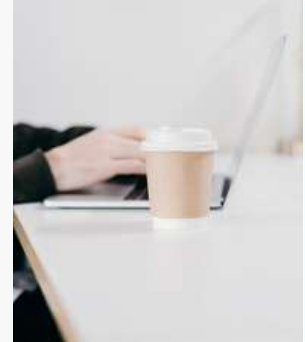
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Thank You

We look forward to hearing from you!



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