



CATALYST CHANGEOUT SPECIALISTS

CARIBBEAN INDUSTRIAL AND AGRICULTURAL CHEMICAL SERVICES LIMITED



“

OUR PEOPLE OUR STRENGTH

”

www.ciacstt.com

SPECIALTY SERVICES OFFERED

- PRE-COMMISSIONING OF REACTORS AND VESSELS
- DISPOSAL OF SPENT CATALYST
- VACUUMING USING INDUSTRIAL VACUUM UNITS
- VIBRATION SCREENING
- INERT INSPECTION & SAMPLING (INERT, HOT & TOXIC ATMOSPHERES)
- CATALYST UNLOADING, LOADING & PACKING (INERT & NORMAL ATMOSPHERES)
- CATALYST SAMPLING, SCREENING, DENSITY GRADING & OXIDIZATION, TRANSPORTATION, STORAGE & CONTAINMENT
- VACUUM UNLOADING WITH CLOSED LOOP NITROGEN RE-CIRCULATION
- VERTICAL/HORIZONTAL DENSE PHASE LOADING
- DISPOSAL OF HAZARDOUS CHEMICAL & LAB WASTE
- LIFE SUPPORT EQUIPMENT
- INERT WELDING & REPAIRS
- CONFINED SPACE TRAINING & CERTIFICATION
- CONTAINERIZED OFFICES – RENTAL & SALES
- CONFINED SPACE RESCUE TEAM SERVICES
- CIVIL & CONSTRUCTION SERVICES
- OFFSHORE VESSEL VACUUMING & TANK CLEANING



VACUUM UNITS



CIACS presently owns a fleet of vacuum units, which provides clients with the level of reliability and flexibility they deserve. These units are all capable of Nitrogen Recirculation with a dust control mechanism. Unlike some older vacuum units, all CIACS' vacuum units are modified for the filling of containers while vacuuming. We have the right vacuum to suit any job.

METALS RECLAMATION, RECYCLING & DISPOSAL OF MATERIALS

Spent Catalyst (used Catalyst) pose a problem for the client after it has been removed from the vessel. CIACS has partnered with MOXBA BV of the Netherlands for reclamation and disposal of spent catalyst. The Spent Catalyst never touches the ground at the Plant Site as it is vacuumed directly from the vessel into waiting dump trucks or storage containers (Flow Bins). If the client prefers, we oxidize, package and ship directly from their site.



DISASTER MANAGEMENT SERVICES



We at Caribbean Industrial & Agricultural Chemical Services Limited constantly strive to provide disaster management services which directly deals with the issues experienced by our fellow citizens. From providing solutions before the flooding occurs to providing relief services when it strikes off-guard, our trained and experienced staff, together with our technologically advanced equipment are ready to assist in preventing this unforeseen event and the struggles that come along with it. Our vacuum units are capable of clearing waterways from the various types of dirt and debris that make cause blockage. We

We store on-site and dispose of the debris using our vacuum tankers. Contact us for your very own personalized plan today and make the effects of flooding a thing of the past.

EQUIPMENT RENTAL SERVICES



Our fleet of dumper trucks, tractor trucks with 20ft & 40 ft trailers, crane-trucks, tele-handlers, fork-lifts, backhoes, bobcats, excavators and much more is available with trained and experienced operators for rental. We ensure that the requirements are always met by providing 24/7 services with professional & competent staff to achieve your project's success. Our technologically advanced equipment ensure reliable and timely results to meet the deadlines given and ensure the customer's satisfaction is guaranteed.

INERT INSPECTION & SAMPLING



CIACS has all the necessary equipment for such operations. These would include life support systems, certified personnel, real time videography equipment and the ability to provide two-way communication between plant operators and In Vessel Technicians while carrying out inspections. Video Inspections are recorded and a copy supplied to the client.

VIBRATION SCREENING



CIACS offers three levels of vibration screening capabilities. The system separates up to three sizes of material and also removes the dust and fines. All dust is contained and can be setup to vacuum airborne dust.

CATALYST UNLOADING

CIACS has all the necessary equipment for such operations. These would include life support systems, certified personnel, real time videography equipment and the ability to provide two-way communication between plant operators and In Vessel Technicians while carrying out inspections. Video Inspections are recorded and a copy supplied to the client.



CATALYST LOADING

Catalyst loading is a critical step that promotes longevity of the catalyst and increased production. A variety of dense loading methods are offered such as UNIDENSE, UOP and DENSICAT.

Conventional funnel and chute loading is most common but have been slightly modified by CIACS to provide even bed distribution and dust control. Quality control is essential especially during loading operations. We have developed our In-house Quality Assurance loading program which eliminates the risk of any errors which may arise during loadings.



CATALYST PACKING

At CIACS, we have developed efficient methods of screening, weighing, bagging and marking of material to be contained. The contained catalyst is then loaded into empty storage units & tankers and transported & disposed of according to all regulations.



DIFFERENTIAL PRESSURE TESTING

DP Measurement

Our DP wands have a locking system, plunger or bellows that lock the DP wand into the tube to prevent leakage during testing. The primary intent of this set up is to produce, essentially constant flow through each tube during the testing by achieving a critical pressure ratio significantly greater than twice the absolute pressure down stream of the orifice. The expected DP across the tubes is maintained as per requirement.



DISPOSAL OF HAZARDOUS CHEMICAL & LAB WASTE



We remove the chemical and lab waste from the client's location and dispose of it both locally & in the US through approved disposal companies. End user certificates are issued after consumption is completed. Error free and accident free service delivery through proper communication of the policies and goals to the employees, supply chain partners, interested third parties and aligning their objectives with that of the company's and of the customer.

SPILL RECOVERY UNIT



CIACS-VAC® - 55 gallon Spill Recovery Unit.

- Requires NO absorbents
- Recovers and contains liquid spills, dry to the touch with one pass
- Reduces response man power and recovery time by 50%
- Recovered liquid materials may be recycled onsite
- Offsite liquid recycle or disposal (fuels)
- One 200-gallon tank with access hatch
- Automatic system overfill protection

BULK MATERIAL HANDLING



Bulk material handling operations are carried out in most industrial plants. Each handling task poses unique demands on the worker. However, CIACS can help workers to perform these tasks safely and easily by implementing and upholding proper policies and procedures

LIFE SUPPORT SYSTEM



CIACS' Life Support Systems are all approved by both The Mine Safety Health Administration(MSHA)and the National Institute for Occupational Safety and Health (NIOSH) for entry and escape from hazardous oxygen deficient atmospheres. The system holds approval NO. TC-13F-214.- - Our life Support System is not what is most commonly known as a Soft mask system. Instead we use helmets that securely cover the entire head region and locks over the users head. This ultimately prevents accidental or unintentional removal in a hazardous environment. The life support console oversees the control of the air supply via its operator.

Designated operators have been trained to handle the following:

- Routine entry and exit operations-
- Evacuations-
- Rescues-
- Equipment troubleshooting and repair-

CIACS offers the necessary experience and equipment to deliver efficient catalyst removal and handling in the petrochemical, pharmaceutical, agrochemical and processing industries. Our team of dedicated professionals is experienced in the unloading and loading of reactors/vessels under inert conditions and within the critical path timescales involved with these projects.

ENDOSCOPE VIDEO INSPECTION & RECORDING

Endoscope Inspection

Endoscope inspection is a hand held remote video inspection system. Lightweight, modular and portable, "lets your eyes travel where you can't." Combining a CCD camera and TFT-LCD display technology, delivers crystal-clear, full colour video inspection systems. Modular in design so that it can be easily configured to inspect behind walls, in and around pipes, reactors, silos, confined spaces and machinery. This system is ideal for quick, non-destructive, intrinsically safe and qualitative inspections in hard to reach places. This system allows for both real time image recording and playback.



Connects to a standard VCR, a computer equipped with an analog to digital for image recording and playback.

OFFSHORE VESSEL VACUUMING

CIACS have been the main provider of Industrial Cleaning Equipment for ZOR SERVICES and ASCO TRINIDAD for the last six years. CIACS has a variety of industrial cleaning equipment to clean both dry and liquid bulk tanks on supply vessels. Some of the materials which are removed from the vessels are barite, cement, bentonite, water base mud, synthetic oil base mud and brine. CIACS has a very reliable and well experienced team that has contributed to CIACS maintaining a very clean safety record. Any job that CIACS has been called upon to perform, they have delivered on both a timely and efficient manner. In our six years of partnering with CIACS we have never had any equipment failures that have resulted in any lost time, this is attributed to the superb maintenance system that CIACS has for their equipment.

Randy Hagley



The owner CEO of ZOR SERVICES LTD,
and previously the Technical Services Manager with
ASCO TRINIDAD LTD.



WASTE HAULAGE AND STORAGE



Vacuum Truck Rentals

CIACS has a fleet of vacuum trucks for removal and transport of solids, liquids and slurries in capacities of 10, 13 and 15 cubic meters. They are all equipped with hydraulic tippers for easy discharge in the case of solid or slurry type material.



Frac Tank Rentals

CIACS can supply Frac tanks in capacities of 500 or 600 barrels for temporary storage of liquids and slurries. They can be used in conjunction with pumps, filters and vacuum boxes for large scale projects



Vacuum Tankers Rentals

We also have in our rental fleet vacuum trailers in capacities of 100, 120 and 130 barrels for transport of all types of hazardous or non-hazardous liquids. Some examples of materials we have successfully removed and transported from industrial sites are Melamine Slurry, Ammoniacal Water, Spent Caustic, Spent Soda Ash, Benfield solution, Ion Exchange Resin, Carbon granules, Drilling Mud and Drilling fluids. Every unit in our fleet has the necessary inspection certification for use within the local industrial sector.



Vacuum Boxes Rentals

CIACS can supply vacuum boxes of 25 cubic yards of watertight and airtight storage capacity. They can be used for containment and transport of hazardous and non-hazardous liquids, solids, sludge, spent catalyst etc. and material stored inside can be blanketed with nitrogen or other inert gas. One of the benefits of using vacuum boxes is that they can keep vacuum trucks or other air movers operating full time without interruption.

THE CONTAINER MODIFICATION SPECIALISTS



At CIACS LTD, we provide new & used shipping containers in its bare form, office type and even retro-fitted to meet your specific requirements. These units are mobile which allow you to experience the benefits of taking your space wherever you choose.



STORAGE / OFFICES
LABORATORIES /
HOMES / STORES /
CANTEEN STATIONS



From storage units, laboratories, offices, home & accommodation structures, we take your ideas and turn them into a reality within a relatively short time frame. They offer to you security, convenience and saves you the time and hassle involved when constructing a traditional concrete or wooden building.



We rent, lease & sell these units and the provision of office furniture is available to compliment your containerized solution, together with networking outlets & various types of amenities throughout.



WE ALSO OFFER
TRANSPORTATION
AND GROUNDING
SERVICES FOR
THESE
CONTAINERIZED
UNITS.

Our office is located at # 241-247 Sum Sum Hill Road, Claxton Bay, Trinidad & Tobago where you can meet with one of our Container Specialists and have a look at some of the retro-fitted containers which we have to offer.



Got an idea in mind. Contact us today for your detailed 3-Dimensional layout designed to meet your every requirement. And did we mention to you that this design/layout is at no cost to you. Let's make it happen today.



Contact us today, via telephone or the email address provided, visit our company's website and stay tuned to our facebook page for updates on our most recent projects.



Let's create your
Containerized
Solution today.
CIACS Ltd -
Creating New Space

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