

Modification of Kawasaki 95Ziv Wheel Dozer -

A Breakthrough at Al Ghayoum Contracting & General Transport Establishment - Habshan (Western Region, Abu Dhabi)

by Sandeep Mahaveer Vaishnav - Branch Manager - Dahbashi Trading Est., Musaffah, Abu Dhabi

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Al Ghayoum Contracting & General Transport Establishment is a trusted name, in the Abu Dhabi western region, specializing in oil field construction activities, equipment & vehicles hiring, earthmoving & survey works. Established in 1992, the company's 26 years of business has seen it involved in high value projects with oil & gas contractors such as ADCO, GASCO, TAKREER, NDC and the western region municipality.

On one of my field visits, along with Mustafa, Mr. Ahmedou Ould Amouye (Maintenance/Purchase Manager) requested us to assist with supplying parts for one of their Kawasaki Wheel Dozer 95Ziv.

Since Kawasaki spares are not our regular product line, we decided to explore and provide an alternate solution by transplanting a good used CAT engine and transmission in the Kawasaki Wheel Dozer in place of its existing Kawasaki engine and transmission.

The idea in theory appeared to be the best solution but there were considerable challenges. One of the major challenges was to convince the customer on this novel idea keeping in mind his expectations about the reliability of the solution, especially since he is a sub-contractor to ADCO and untimely break down of the machine

could lead to serious issues. The other challenge was to look into the micro details of the modification that would be required for hydraulic and transmission oil line and transmission control to existing valves on the machine. This was akin to performing a heart transplant on the machine!

We gathered information on the parts required and subsequently obtained approval to order: engine spares & transmission kits, hydraulic & transmission pump and injectors. The client was given critical technical guidance to enable them to smoothly perform jobs such as assembly of fuel lines, adjustment of pressure, torque, rotation of pumps and electrical symmetric diagram for AC.

The work was successfully accomplished at the client's in-house workshop and the equipment has since completed approximately 300 hours of service hours at a daily average of 8 hours. We thanked the client for placing their trust in DE and giving us a chance to serve them.

Special thanks are also due to Mustafa Selwawala, Zaheer and William. While Mustafa was responsible for escalating the client's requirements and enabling us to provide rapid and flawless service support, Zaheer and William ensured that the job was completed efficiently in their capacity as technicians.





Hoppecke GroE for Substations

- A successful installation by Dahbashi Engineering
by Mohammad Shaadab - Product Support & Sales Engineer
Motive & Reserve Power Division, Dahbashi Engineering

In 2012, the MRP's Reserve Power department started its campaign with one of the world's largest aluminum smelter based in Jebel Ali. With an annual capacity of 2.7 M tons at full operation of its expansion smelting plant plus the addition of a new processing plant in Abu Dhabi, this would require an enormous amount of power. The process of smelting and extraction necessary to provide the finished product – aluminum, not only requires a huge amount of power but has to be autonomous to the country's existing power grid.

Their own power plant in Jebel Ali alone has a power generation capacity of 2.350MW and can desalinate 30 million gallons/day. It self sustains its own power and water requirements. The power distribution is composed of more than 400 transformer stations and critical power areas that require power quality and protection. There are 2 Electrical Maintenance groups that take care of the continuity of power service: Smelter and Power / Desalination. The Electrical

Maintenance Department (EMD) Power/Desalination takes care of 23 Gas Turbines (GT) and 7 Steam Turbine (ST) generators which compose the active combined cycle power station.

The GTs are fueled primarily by natural gas. Down the line is composed of 44 rectifier transformers with 13 boosters and a total of 372 distribution transformers. These are protected by UPS systems or switchgear that require quality electricity supported by a durable battery system.

For more than 35 years, the Jebel Ali plant appreciated the existing partners and manufacturers of equipment who supported them through the process of evolution. **Hoppecke GroE batteries**, an integral part of the original power turbines and switchgear equipment has proven itself in terms of quality and exceeded the life time expectancy in a demanding application.

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Hoppecke GroE for Substations

– A successful installation by Dahbashi Engineering
by Mohammad Shaadab - Product Support & Sales Engineer
Motive & Reserve Power Division, Dahbashi Engineering

In 2013, the average age of 70% of the batteries installed was within 12-15 years. MRP's work began by replacing the 106 cells 6 GroE 600 at their Control Center. This gave MRP an excellent start with the confidence of continuous business supply, delivery, workshop commissioning and installation services for more than 3,200 cells of different capacities of GroE (Plant plate) batteries, to date, in the Jebel Ali facility alone. Currently, Hoppecke brand holds 93% of the battery population.

MRP service team has successfully completed the contract involving commissioning and installation of two battery banks comprising of 11GroE1100 and 12GroE1200 cells in May 2018.

The installation project was accomplished in two stages:

Stage 1: Commissioning of dry charged GroE cells in DE workshop consisting of electrolyte filling, commissioning charge and capacity test.

Stage 2 Preparation of site by removing existing battery banks, transfer to disposal site by the client, installation of new racks and cells on site. Haulage of cells on site was a real challenge with the cells needing to be hauled to the battery room located on the first floor with the help of a crane. We were amply supported by the customer's engineering team in this task.

A special mention is due to the site support team consisting of Hadhil, Nived, Bharath, Brajesh, Richard and Shah Alam. No job is complete without the support of the back office team and a special thanks to Krithi and Thagendra from Admin for their help in accomplishing this milestone project.



Profile

Vinayak Suryakanth Chippa

by Sandeep Mahaveer Vaishnav

Branch Manager - Dahbashi Trading Est., Abu Dhabi

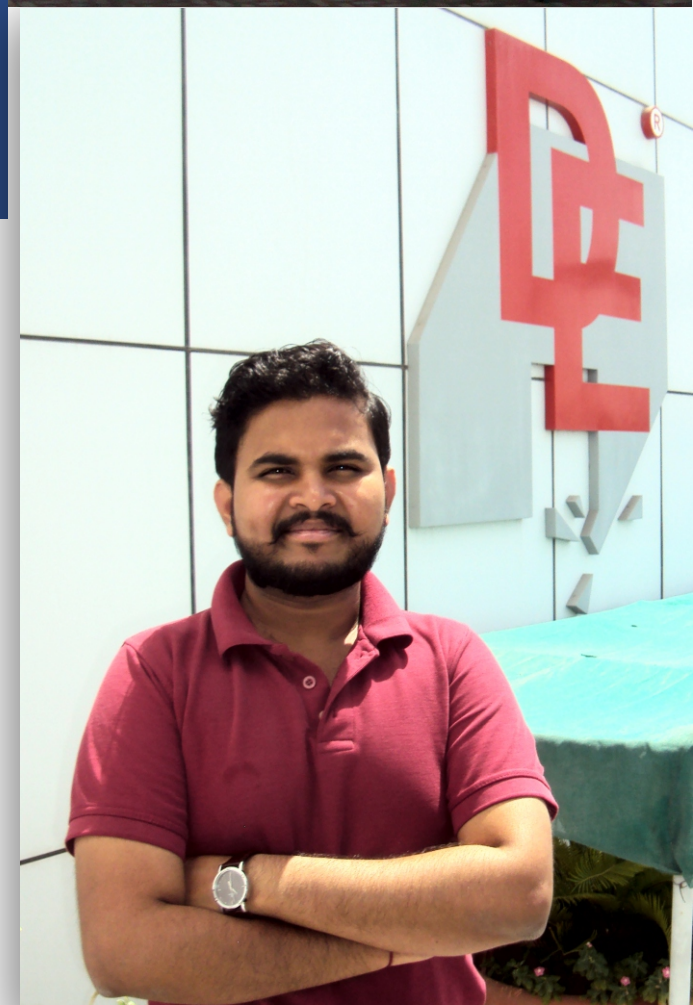
Vinayak Chippa was referred to Dahbashi Engineering by Rajesh Murari Regothi (Supervisor Kuwait) and joined the Head Office central stores in August 2014 as a Stores Helper. Having moved to Abu Dhabi in June 2015 as a Stores / Sales Counter Assistant, he has since been promoted to his current position as Counter Salesman.

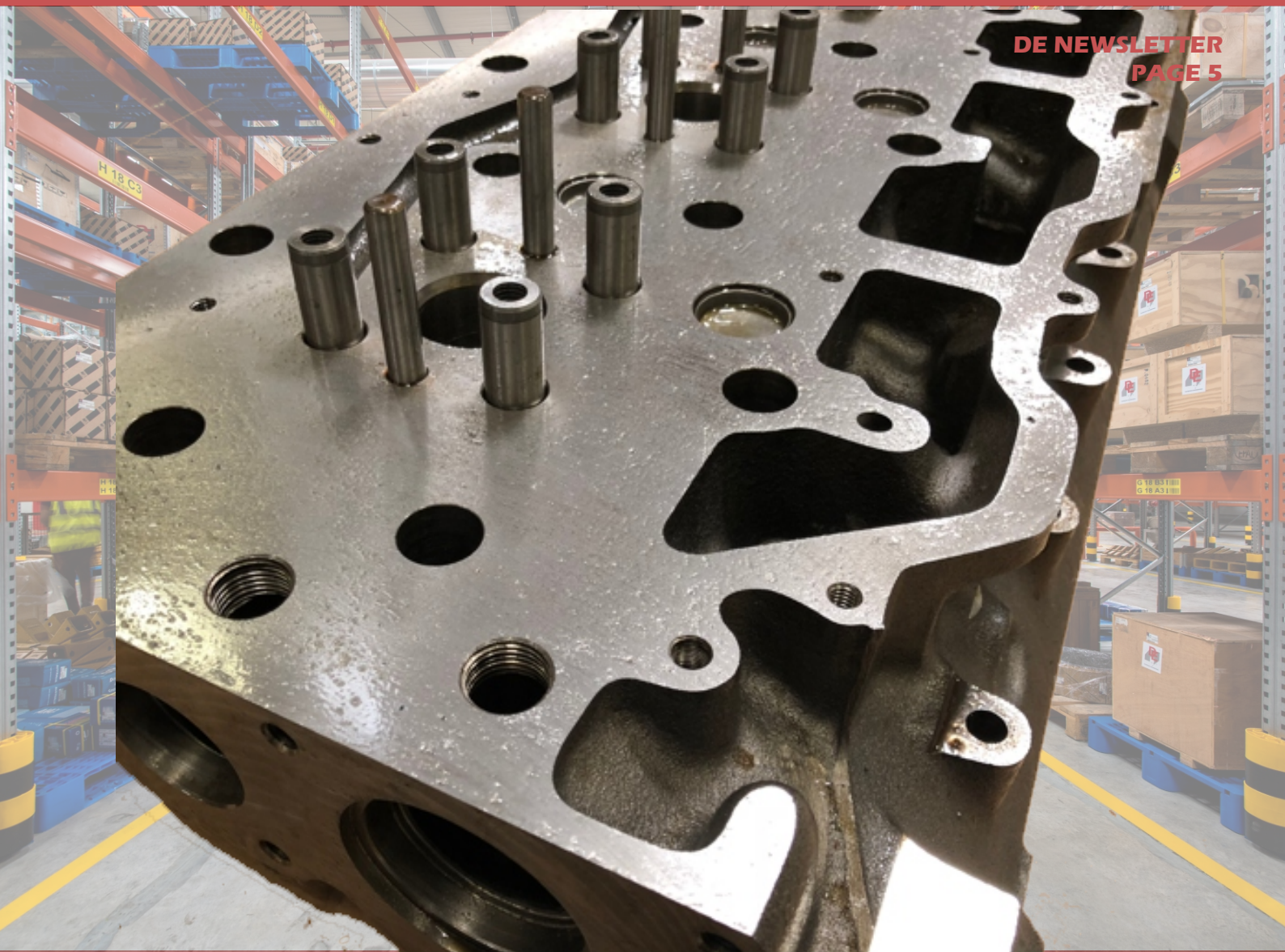
Originally from Mumbai, India, Vinayak's father is employed in the private sector while his mother is a homemaker. His younger brother resides and works in India.

His sincere behavior and co-operative demeanor are well known to all those who work with him. The sales department is one of the main profit centers of the company and working as a salesperson can be quite challenging. Vinayak, however, makes this look easy! Not only is he hardworking, but he also has a full grasp of all DE products and administrative work. His daily routine involves: dealing with customers at the sales counter, field visits, handling branch inventory and supervising the team in the absence of his seniors.

Vinayak gives credit to the company and AUH branch team members who have helped shape his career and professional life. He is grateful for and appreciates all that has been taught to him. Cheerful by nature, he is also a self-confessed beard fanatic!

On behalf of DE, I would like to thank Vinayak for being such an invaluable team member and wish him success always.





دهباشي الهندسية
DAHBASHI ENGINEERING

ADDRESS

**B67, Area 365, Street 12,
Al Quoz Industrial Area 2,
Dubai, U.A.E.
Makani: 22731 80900**

PHONE:

+971 4 3470111

FAX:

+971 4 3470987

E-MAIL:

info@dahbashi.com

VISIT US AT:

www.dahbashi.com