



STEEL ASIA MANUFACTURING CORPORATION

Measurement of Water Holding Tank Volume, Installation of Water Meters to Monitor Water Consumption and Modification of Circulation of Water at Furnace Area

SUMMARY OF THE OPTION

Steel Asia Manufacturing Corporation (SAMC), a joint venture with TATA Steel from India, is located in Bulacan in the Philippines and produces reinforcing steel bars (also referred to as rebar) for use in construction.

In the plant there was no water monitoring or metering system and therefore production staffs are not aware of the water consumption in the production. Monitoring of water consumption can be done either by (1) installation of water meters in the main water source tank or localized storage or piping for specific production activities or (2) determining the volume of the water storage tank and recording the number of times the tank was emptied and filled. The company installed a water-metering system in 2004 to monitor and record the amount of water consumed for the different production activities. Based on water consumption data the company was able to identify and implement water conservation measures and increase awareness of the production staff of water use and conservation. Since then several good housekeeping options to conserve water have been implemented, such as leak repair.

Investment costs were US\$ 454 and estimated reduction in water consumption between September 2004 and March 2005 data was about 2,015 m³ water and 833 kWh electricity. Savings were US\$ 1,284 savings and the payback period was 4 months.

KEY WORDS

Iron and steel, Philippines, Pumps and pumping systems, Water monitoring

FOR MORE INFORMATION

GERIAP National Focal Point for the Philippines

Dr. Alice B. Herrera, Officer-in-Charge, Fuels and Energy Division
Industrial Technology Development Institute
Gen. Santos Ave., Bicutan, Taguig City, Metro Manila Philippines 1631
Tel: +632 837 2071 ext 2190, Tel fax: +632 837 2071 ext 2204
E-mail: aherrera@dost.gov.ph, aherrera@pacific.net.ph

GERIAP Company in the Philippines

Ms. Belen W. Yao, AVP – Gen Plant Services
Steel Asia Manufacturing Corporation
090 Ciudad Industria, Bo. Bahay-Pari, Meycauyan, Bulacan, Philippines

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