



PROJECT: 40tph BRIQUETTE PLANT
LOCATION: POINT LISAS, TRINIDAD
OWNER: MITTAL STEEL
CLIENT: COMCON LIMITED, Barbados
SECTOR: ENERGY
PROJECT VALUE: US\$6m
PROJECT COMPLETION: Dec 2005

Project Description

This project involved the detailed civil and structural analysis, design and construction drawings of a new 40 tonne per hour briquette plant.

Rivelin Consultants Limited was appointed by the Client as the Civil/Structural Engineer to carry out the full design of silo supports, piled and spread foundations for silo/trestle/conveyor structures, 3-storey briquette building, conveyor trestles, conveyor frames.

Key project criteria

- 40tph Hot Briquette plant
- Design structural systems that allowed for efficient use of available structural members
- Design for implementation within the live operating environment of the existing MITTAL plant.
- Trestle design provided a full height clearance of 5m for vehicular movement underneath.

Our role

- Preparation of the full civil and structural analysis, design and construction drawings for the Client
- Review and development of quality assurance systems for civil works for Client
- Provision of on-site quality assurance inspection services
- Design and analysis carried out using ASCE07, AISC and BS8110 codes
- Provisions made for both seismic and hurricane loading, plus dynamic loads imparted by conveyor systems
- Optimise design to allow the Client to use readily available structural steel members in lieu of more expensive imported members.
- Production of fabrication drawings to enable Fab Shop works to proceed