## Acencia @ TTDI (on constructions aspect)

(by Mr. Perkin Chin, General Manager-Operations) (2013 Apr-Jun)

Geohan's first Diaphragm Wall project kicked off successfully with much anticipation with respect to the performance of Bauer's hydraulic grab GB46 since its purchase in year 2012. The inauguration of first primary panel started on panel P7 (W600mm x L2800mm at 18.5m depth) on the 9 April 2013.



Bauer Hydraulic Grab B46



**Excavation Panel** 



Lowering reinforcement

Profile of construction joint with centre bulb rubber water stop

Name of Item	Description
Panel Reference	Р7
Panel Size (mm)	W600 x L2800
Excavation Depth (m)	18.5
Soil Properties	Granite residual soil (Silty Sand, SPT<25)
Excavation Time (nett hrs)	2 hours
Stabilising Fluid Dosage	Sodium Bentonite at 3.5%
Concrete Over Break (%)	13 (actual overall average <10%)
Status of Project	Diaphragm wall construction completed

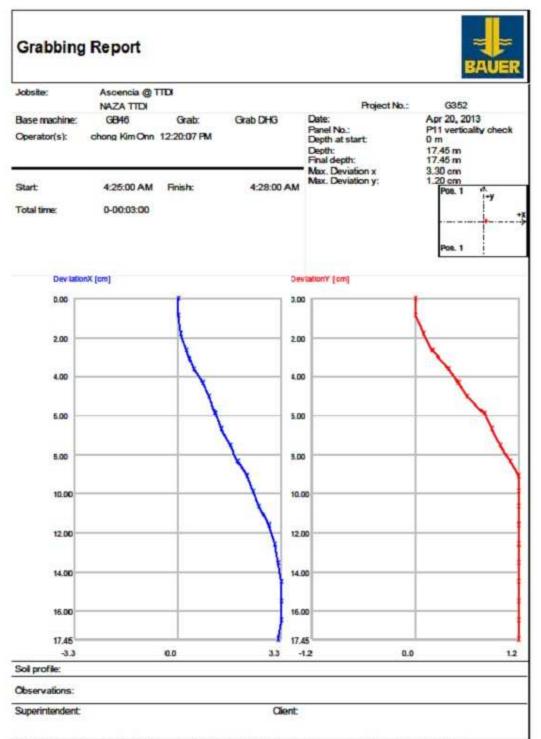
Below are the statistics of the panel construction:



Concreting of wall panel

Some salient points on the use of hydraulic grab (GB46) in diaphragm wall construction are:

- Ease of handling
- Superior verticality control can be achieved with grab control system GCS (a verticality check on panel P11 recorded 1:1500 in Y direction)



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Grabbing Report

• Excavation of corner panel in limited space can be carried out with ease with the use of grab turning device GV3



Excavation of corner panel

• High excavation rates comparable to conventional cable grab in similar ground (in excess of 15 cu.m hourly)