



R&D Fund Project

Coal Dust Dispersion Study At TNB Manjung Coal Fired Power Station And Its Impact To The Surrounding Environment



One of the 10 dust deposit gauges installed at TNBJ



PM10 Air sampling equipment

Project Overview

TNBJ received several complaints from neighboring residents on coal dust deposits originating from their coal yard due to exceptionally strong gust coming from the sea for just two (2) hours in April of 2003. Subsequently, TNBR was appointed to carry out a coal dust dispersion study and its impact to the surrounding environment and to propose a practical and cost-effective mitigation measure.

Deliverables

1. Study existing meteorological (weather) conditions at TNBJ.
2. Study dust dispersion patterns from TNBJ coal stockpile.
3. Study the correlation between meteorological conditions and dust dispersion patterns.
4. Study chemical composition of coal dusts dispersion and relate to human health effect.
5. Study the current and future development of Manjung area.
6. Propose a long-term 'cost-effective' mitigation measure to reduce the impact of dust dispersion from the coal yard.

Benefits

1. Data obtained from this study will safeguard TNB image with regards to any public complaints on fugitive dust from TNBJ.
2. Reduce the impact of coal dust to the local resident and improves the air quality in the surrounding area.
3. Enable to assess the effectiveness of dust control measures at the coal yard.
4. Technology and knowledge transfer about the coal dust monitoring to the power station staffs.