

TO PROPOSE A DESIGN OF WEATHER STATION WITH OBSERVATION TOWER IN NILAI

Prepared by: Wang Wee Jiun

ABSTRACT

On behalf of the project title “To Propose a Design of Weather Station with Observation Tower in Nilai”, the objective of the project is to design a reinforced concrete (R.C) weather station building and its steel observation tower which are to be allocated at the empty land opposite the Esso petrol station that is nearby INTI College Malaysia.

From the abstract of the project title; design a R.C weather station by using BS 8110 and BS 5950 for the steel tower. Firstly the project has been carried out by the architectural design which involves the layout of the structure or building. The external and internal appearances of the weather station or office as well as the tower are shown in the architectural drawing which attached in this report.

Then, the main frame of the project would be the structural design of the weather station and the observation tower. The weather office itself is mainly a R.C design structure based on the British Standard Code BS 8110 and the tower is a steel structure that design by referring to the British Standard BS 5950. The R.C weather station design was begun from the top to the bottom of the structure with the accordance of roof slab, slabs, beams, columns and eventually the footing. Towards the end of the design, the detailing of the structural elements is revealed.