Abstrak

In modern era, society needs on education are in higher demands now and needs on better education place is also important. Good education will completed if education system also good. Beside that, good facility also have important role. Therefore build a new school building, Terang Bangsa School that have a good facility for student to get concentrate on their lesson.

As a material of planning study, it will get modification on eight floor structure on Terang Bangsa School Building. In the beginning, that building design using conventional concrete bone structure then it will be repeated modification using steel-concrete composite structure. Because of building area placed on low earthquake zone, so to count the earthquake weight will be use Sistem Rangka Pemikul Moemen Biasa (SRPMB). Beside that, it also planning using foundation that suits with weight that will it got.

Composite structure are more used in structure scheme. From some research, composite structure can give structure performance better and more effective in providing weight capacity, rigidity and economic benefit (Vebryano Rinaldy & Muhammad Rustailang, 2005). On this final project using rules SNI 03-1726-2002 about “Tata Cara Perencanaan Struktur Baja”. In the end of this final project compilation, writer hoping
can planning something composite structure which efficient without obey safety factor and building function.

Keywords: Steel-Concrete Composite, SRPMB