

**ON THE FEASIBILITY ASPECT OF ELECTRICAL INSTALLATIONS IN THE  
MECHANICAL ENGINEERING WORKSHOP STT-PLN JAKARTA**

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**Under the guidance of Ir. Sulaeman**

**ABSTRACT**

*At the installation of electric power and electrical equipment itself there is nothing really safe from disruption that comes from within the system and outside the system. One is the electric motor that is highly sensitive to system disturbances. Installation of electric motor systems must be installed in such a way to maintain the reliability of the motor in accordance with the requirements. Power system protection is protection system mounted on electric equipment electric power system, such as electric motors, network installation and others. In the final project was discussed about the feasibility of the installation of an electric motor to see the reliability of the equipment installation aspects of the motor with a reliable, secure and familiar environment. From the results of the examination and can count on the installation of mechanical engineering workshop at the main switch supply branch circuit that circuit A and circuit B 60 Amper and 186 Amper with a circuit wiring specifications are NYY 4x10mm<sup>2</sup> and circuit B is 4x70mm<sup>2</sup>. Installation of electric motors in mechanical engineering workshop STT-PLN is in conformity with the reliability, great conductor wiring for planning the addition of new facilities.*

**Keywords: Installation of Electric Motors, Electric Motors**