



**NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY  
ELECTRICAL DEPARTMENT**

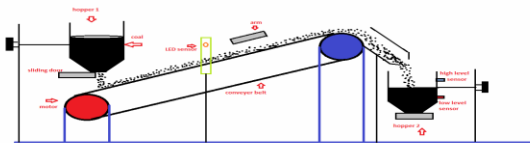
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**Project Title:-Automation Based Coal Conveying And Feeding System**

**Abstract:-**Now a day's due to global warming and climate changes there are challenging situations in field of coal mine. To reduce the cost and improve the productivity along with product quality the automation in the field of coal mine is indeed necessary, which will also reduce the mine workers efforts.A precise application of Automation is employed in power generation plants for coal transport, reception, storage & handling. In a thermal power plant , For coal conveying and feeding with the help of automation system , which consists of control systems and communication between computer, PLC.Due to faulty and lengthy conventional methods for coal conveying which required a lot of man power and money Hence there raised a need of reliable, Fast and advanced methodology which may replace this conservative method for COAL CONVEYING, which is served by "AUTOMATION BASED COAL CONVEYING AND FEEDING".

**Block /circuit Diagram:-**



**Major Hardware components used:-Motor ,Conveyor belt,supporting structure,Hoppers,CD-drive,**

**Software used:-PLC vision 120,Infrared sensor,proximity sensor.**

**Project Application:-**

- (1)Coal transportation**
- (2)Coal mining Industries**
- (3)Thermal power station**
- (4)Small scale industries**

**Approx. Project Cost:-25000**

**Project Photo:-**

