



Applications of FGD Process for removal of Sulphur di Oxide

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Flue gas desulphurization technologies for Coal fired power plants | The demand of electricity is continuous increasing and it is expected to double in 7 -10 years and the pollution in the environment likely to increase in the coming years. SO₂ produced during the combustion process in Power Plants and affects the environment in number of ways like acid rain, corrosion and severe damages to the health. So our aim of the project is to reduce the emission of SO₂ in environment and to produce a by product with SO₂, Hence SO₂ emission can be controlled. Laboratory studies were conducted to know about the effect of concentration of NaOH, Ca(OH)₂, & waste product, pH of solution, flow of flue gases in impinges, temperature of solutions and time period for reaction for absorption of SO₂ contained in flue gases. In accordance with the invention, flue gases containing SO₂ are passed through a solution which was rich with Na/Ca ions using SO₂ monitoring kit of SO₂ measurement, and then SO₂ reacts with these ions to produce respective sulphate. If we established FGD system before chimney then we can recover 95% sulphur di oxide and protect..



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