**Abstract**

To implement automation in construction work motorized sand filtering machine is developed It consists of Filtering net driven by Crank mechanism mounted on suitable heavy frame. On the High Torque DC motor Crank mechanism is mounted that will convert rotary motion into linear reciprocating motion and this reciprocation motion is fed to Filter net. When motor starts filter net will reciprocated to and fro on Bearing base. On this net Sand is poured that will filtered. Small sized particles will fall down through net on sloping sheet and collected at base. Large sized particles will remain on net and can be taken out by removing nut-bolt.