



Heavy duty welding machine

Consolation
Electrical

Sukhram Mistri
Lohardaga, Jharkhand



Scout: Mukesh Pandey & Rajeev Ranjan Pandey

Sukhram Mistry (66) is an electrician from a relatively under developed district of Jharkhand. He has developed a robust single phase welding machine suited for rural areas with their characteristically poor electric supply.

The single phase welding machine is an efficient machine, which tolerates wide fluctuation in voltage. It can work on a single phase or double phase power supply. NIF facilitated its testing at BIT Mesra, Ranchi. As per the report, the welding strength of the machine was found to be good.

Another testing was facilitated at IIT, Guwahati by NIF. The report mentioned that low insulation on secondary winding and the use of individual aluminium wires acting as a single solid conductor result in higher current carriage and effectively better welding.

They also found the capacity of the machine for continuous operation quite advantageous. The machine was also found to be rugged enough to withstand poor current characteristics that can facilitate its use in rural areas where current quality is often poor with low voltage, higher fluctuation.