ABSTRACT
The present study was undertaken to test the briquettes. For this study availability of the biomass in Akola area and select the best suitable biomass for briquette making was studied for groundnut residue, sawdust, soybean residue, sole and mass mixing ratio, respectively. Briquettes made from screw press and piston press were tested for their physical and thermal properties in laboratory. The best suitable material for briquette making with the wood chips and wood species. In case of piston press, groundnut residue (19180.2 kJ/kg), sawdust (18204 kJ/kg), groundnut with sawdust (19569.55 kJ/kg) and groundnut residue with soybean residue (18694.67 kJ/kg) gave better CV or similar to the wood chips (20030.01 kJ/kg) and wood species (babool) (20038.38 kJ/kg). Groundnut residue briquette and groundnut with sawdust briquette gave higher density in piston press of nearly 0.53 to 0.663 g/cm$^3$. In screw press, density of sole and combination briquette gave 0.392 to 0.433 g/cm$^3$. The result found that groundnut with soybean residue, groundnut residue and groundnut with sawdust has been most suited for briquetting.

Key words: Briquettes, Piston press, Screw press, Physical and thermal properties of briquettes.