**ABSTRACT**

Traditionally *Tectona grandis*, is known for its anti-inflammatory & analgesic activity

and it is used in remote villages of India for the treatment of these conditions. The present study was undertaken to evaluate anti-inflammatory and analgesic properties of Hydro-alcoholic extract of *Tectona grandis* stem bark*.* The analgesic effects were evaluated by tail-flick and acetic acid induced writhing methods. Anti-inflammatory effect was evaluated by carrageenan induced rat paw edema and formalin induced rat paw edema. Diclofenac (100 mg/kg p.o.) was used as standard drug for comparison. HETG was used at doses of 100, 200 and 400 mg/kg administered by oral route. HETG significantly inhibited carrageenan induced acute inflammation and formalin induced chronic inflammation. HETG produced significant antinociceptive effects against central & peripheral pain. Results suggest that it was effective in inhibiting both i.e. central & peripheral pain. Thus the present study confirms folkloric uses of this plant in different animal models.

**Key words:** *Tectona grandis,* tail-flick, writhing, carrageenan, formalin, inflammation,

pain.