Welfare considerations

* **Physiological and Behavioural Indicators:** McMeekan CM, Mellor DJ, Stafford KJ, et al reported that plasma cortisol concentrations increase rapidly 30 to 60 minutes after dehorning, decline slightly, plateau level for 3 to 4 hours, and then return to baseline values approximately 6 to 8 hours after the procedure. Indicating that these animals to experience pain during this procedure.
* **Disease:** Karatzias H. [Tetanus in cattle caused by dehorning with rubber bands] : Tetanus has reported in cattle post dehorning. Physical dehorning has been associated with an increased risk of transmission of the bovine leukosis virus (BLV).
* **Production:** According to Loxton ID, Toleman MA, Holmes AE reported that reduced body weight gain was observed during the first 6 weeks after physical dehorning of 4-, 7-, 19-, and 30-month-old calves, final mean body weights of all groups were not significantly different than those of control (naturally polled) calves in the study on the effect of dehorning Brahman crossbred animals of four age groups on subsequent weight gain.