

REVIEW ARTICLE

Dairy animal shelter in tropics with special reference to space requirement and air quality

■ KULADIP PRAKASH SHINDE

AUTHOR FOR CORRESPONDENCE

KULADIP PRAKASH SHINDE
Division of Livestock Production and Management, ICAR-NDRI, KARNAL (HARYANA) INDIA
Email : kuls164@gmail.com

Key words : Dairy animal shelter, Air quality, Tropical climate zone

How to cite this paper : Shinde, Kuladip Prakash (2016). Dairy animal shelter in tropics with special reference to space requirement and air quality. *Vet. Sci. Res. J.*, 7(2) : 113-121, DOI : 10.15740/HAS/VSRJ/7.2/113-121.

Paper History : Received : 06.06.2016; Accepted : 23.09.2016

INTRODUCTION

The tropics are a region of the Earth surrounding the Equator. Tropical climate zones of the Earth where all twelve months have mean temperatures above 18.0 °C (64.4 °F). In tropics comfort zone of animals ranges from 15 to 27°C and milk production begins to drop only when temperatures rise above 35°C.

Housing is one of the foremost requirements of dairy cows for better production, health and welfare (Hsitov *et al.*, 2006). Shelter is required for protection and comfort of animal against extremes of temperature, sunlight, rainfall, humidity, frost, snowfall, strong winds, etc. Besides providing shelter from adverse weather a well designed barn provides a clean, dry, well drained and comfortable accommodation to the animals and a pleasant efficient work place for the workers which are important for quality milk production. Uncomfortable housing have detrimental effects on

