

# Morphometric Characterization of Non-Descript Cattle in Thane District of the Konkan Region of Maharashtra

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**Abstract**—The present investigation was undertaken to study the morphometric characteristics in non-descript cattle in Thane district. The data pertain to 360 non-descript cattle of different categories. The physical characteristics included hair sheen, hair length, hair curl, coat colour, skin colour, muzzle colour, hooves colour, switch of tail colour, white patch on forehead, horn shape, horn colour, horn length, diameter of horn at base, ear length, orientation of ear, eyelid pattern, pupil colour, head length, poll pattern, body length, chest girth, height at wither, body weight, udder shape, teat shape and teat tip shape were taken up for morphometric characterization. The data collected were properly arranged, grouped and were analyzed by using least square method. In non-descript cattle, the coat colours observed were white, black and grey in proportion of 42.22, 25.00 and 32.78 per cent, respectively. The prominent colour of tail switch was black (56.67%). Most of animals had black muzzle (83.37%), black hooves (83.61%) and greyish brown horn (84.72%). Morphometric characteristics data obtained were classified according to location, age group and sex of the animals. The means for body length, height at wither, heart girth, switch of tail colour, ear length and head length were  $97.69 \pm 0.04$ ,  $84.72 \pm 0.16$ ,  $126.91 \pm 0.07$ ,  $26.94 \pm 3.56$ ,  $17.95 \pm 0.33$  and  $40.34 \pm 0.01$  cm, respectively. The non-descript cattle of Thane are comparatively smaller in size than most of the recognized breeds of cattle however coat colour showed sizeable variation. The data generated for non-descript cattle of Thane would be useful to characterize them.