

**RESEARCH ARTICLE :**

## Studies on morphological properties of soil profiles in village Baragaon nandur, taluka Rahuri, dist-Ahmednagar of state Maharashtra

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**SUMMARY :** Soil profile studies on entisols, inceptisols and vertisols in Village Baragaon Nandur was carried out during the year 2015-16. four soil orders viz., two entisols, one inceptisols, vertisols of village Baragaon Nandur were analyzed for soil morphological properties which are derived from basalt, basaltic alluvium and slightly conditioned by topography. These orders were shallow (entisols), moderately deep (inceptisols), very deep (vertisols) and have depth 22 to 120cm, and have their colour munsell notation in 10YR/7.5YR in hue with value ranges from 5 to 7 and Chroma ranges from 1 to 4. The structure of Entisols (A) and Entisols (B) are weak fine subangular blocky. While Inceptisols showed medium subangular blocky structure at surface horizon and it was changed to medium angular blocky structure at subsurface and Vertisols showed coarse hard subangular blocky at surface horizon and it was changed to medium strong angular blocky at subsurface horizon. but angular blocky type structure is a common feature in slickenside zone of vertisols and inceptisols. The textural class of Entisols (A) was silty clay while Entisols (B) showed clay loamy texture throughout the profile from surface to subsurface horizons, While Inceptisols and Vertisols showed clay textural class throughout the solum. The consistence of the Vertisols and Inceptisols was very hard when dry, moderately firm to moderately very firm when moist. The present investigation was undertaken to generate comprehensive information about the characteristics of soil for evolving proper soil and water management strategies so as to maximize and sustain agriculture production.

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