

19. **Bhola, S.N. and Man Mohan, S. 1982.** Soil erodibility of black soils of Bellary district. *Indian J. Soil Conserv.*, 10(2&3):39-45.

Soil erodibility characteristics of eight soil series viz. Teligi series, Itigi series, Lakshampur series, Bandri series, Kurikuppa series, Vaddatti series, Hugulur series and Vaddu series identified in black soils of Bellary district have been determined. Soil physical and chemical properties such as mechanical composition, CaCO_3 , pH, E.S.P., M.E., O.C. and suspension percentage of all these series were determined to work out different erosion indices. The erosion ratio ranged from 15 to 30 upto 60 cms depth and increased at lower depth. The erosion ratio was found to have significant positive correlation with dispersion ratio ($r=0.98$), suspension % ($r=0.92$), percolation ratio ($r=0.96$), E.S.P. ($r=0.70$), M.E. ($r=0.46$) and highly significant negative correlation with colloid/ME ratio [$r=(-)0.82$]. Multiple and partial correlations worked out between significantly correlated pairs suggested that determination of dispersion ratio which has the coefficient of determination (R^2) value as 0.94, serves as a good index for assessing erodibility of black soils.