

Fig.1 Study area

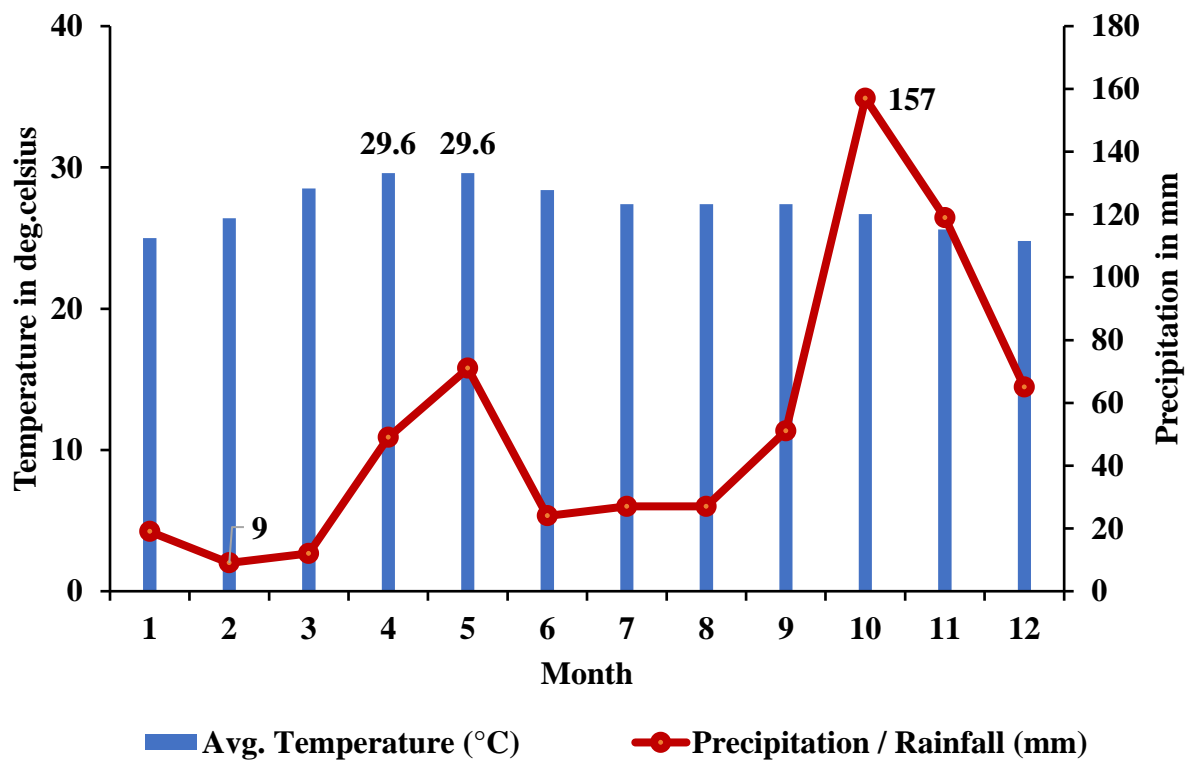


Fig.2 Climatic variation in study area

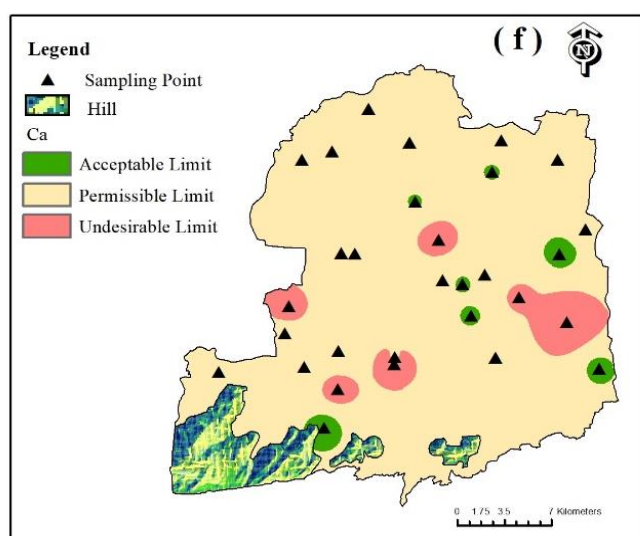
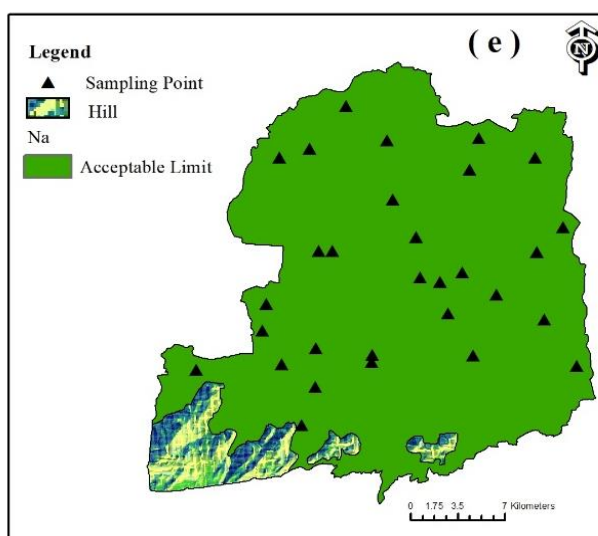
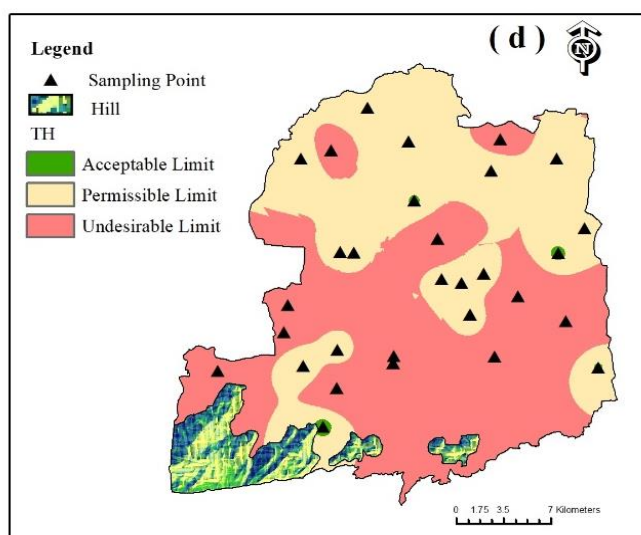
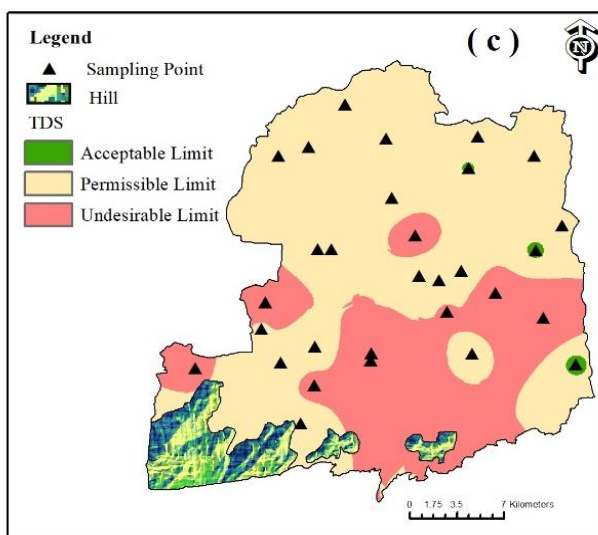
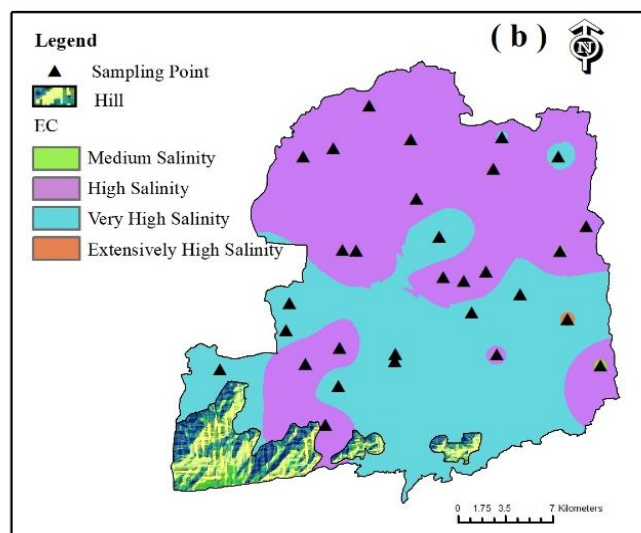
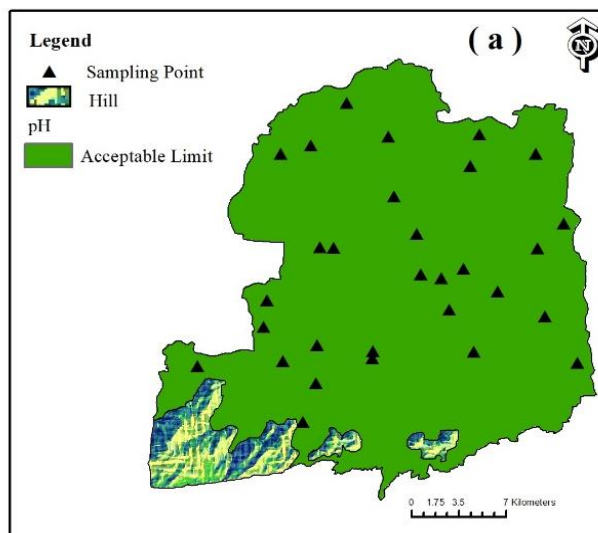


Fig. 3 Spatial analysis of a) pH b) EC c) TDS d) TH e) Na⁺ f) Ca²⁺

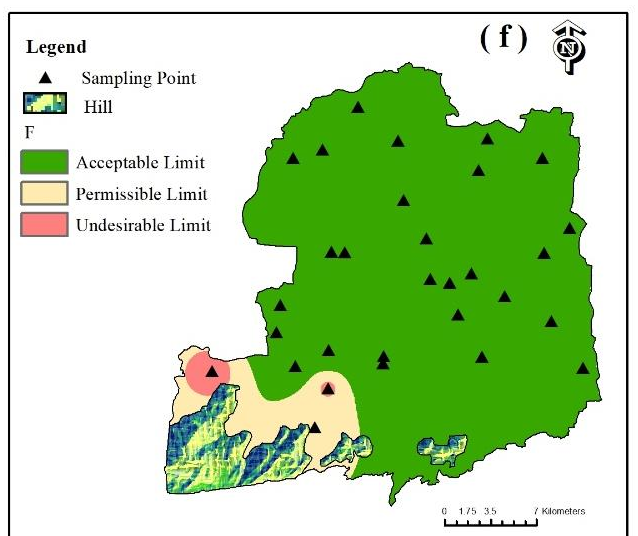
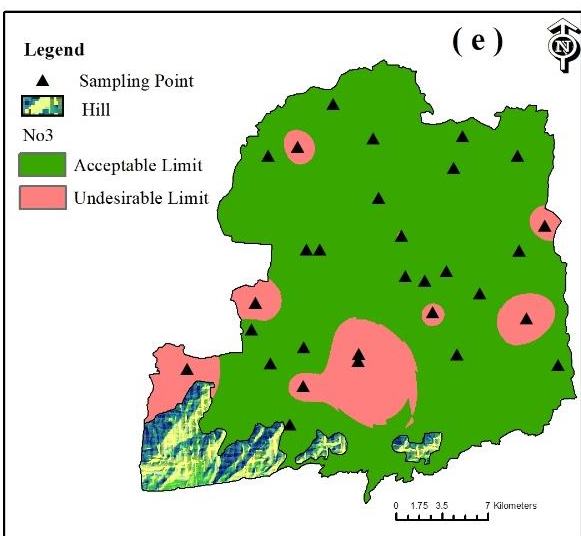
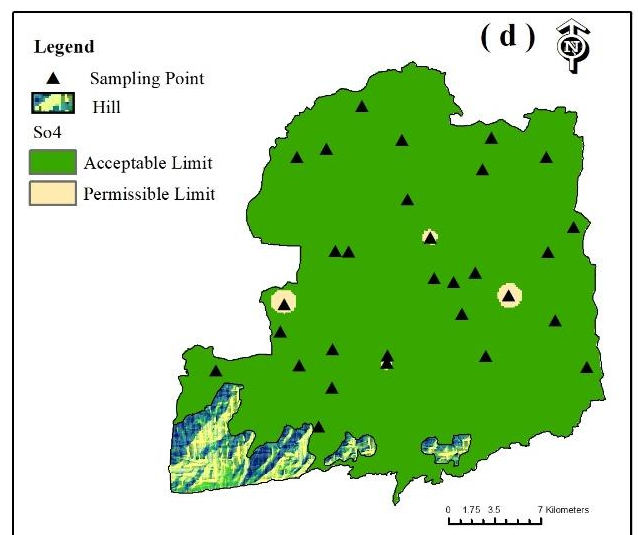
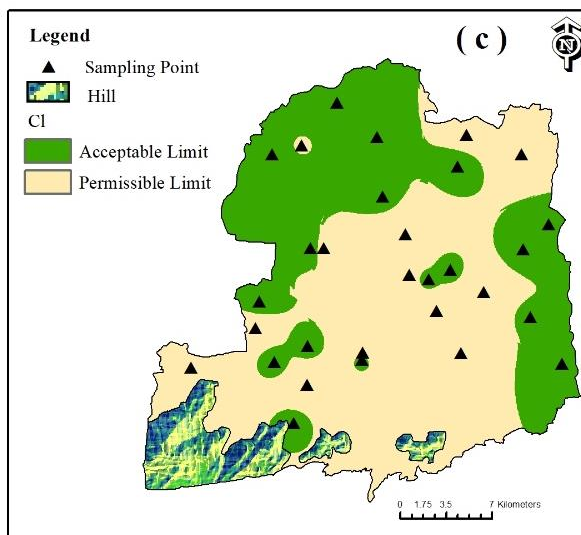
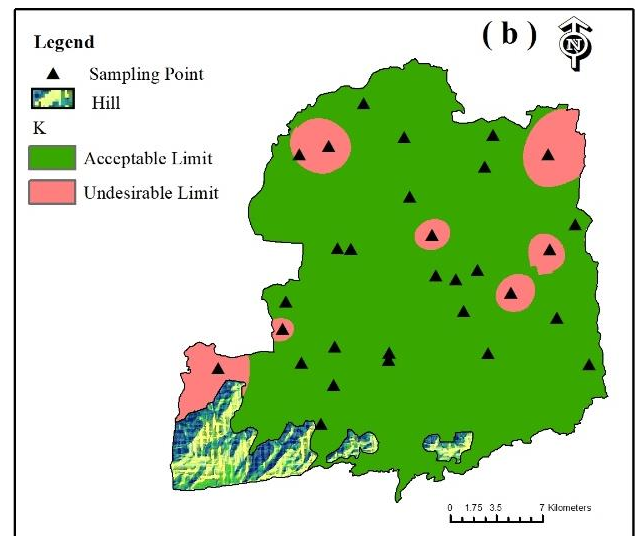
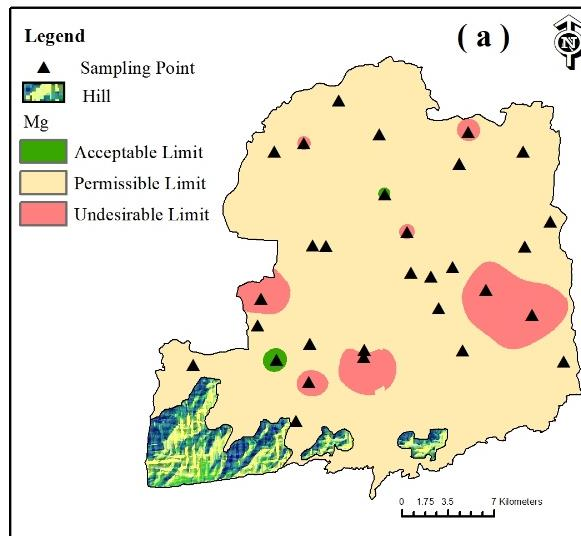


Fig. 4 Spatial analysis of a) Mg^{2+} b) K^{2+} c) Cl^{-} d) SO_4^{2-} e) NO_3^{-} f) F^{-}

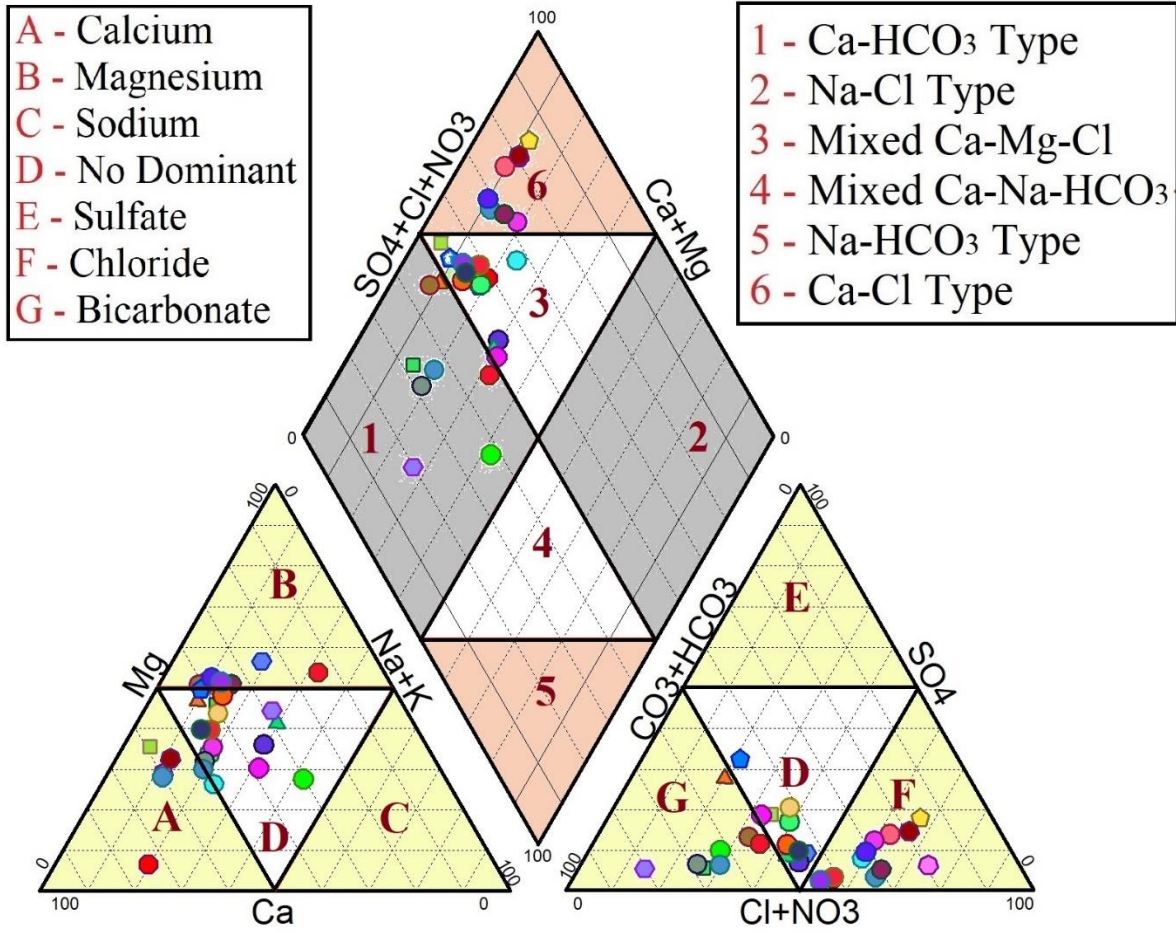


Fig. 5 Piper trilinear diagram of the study area

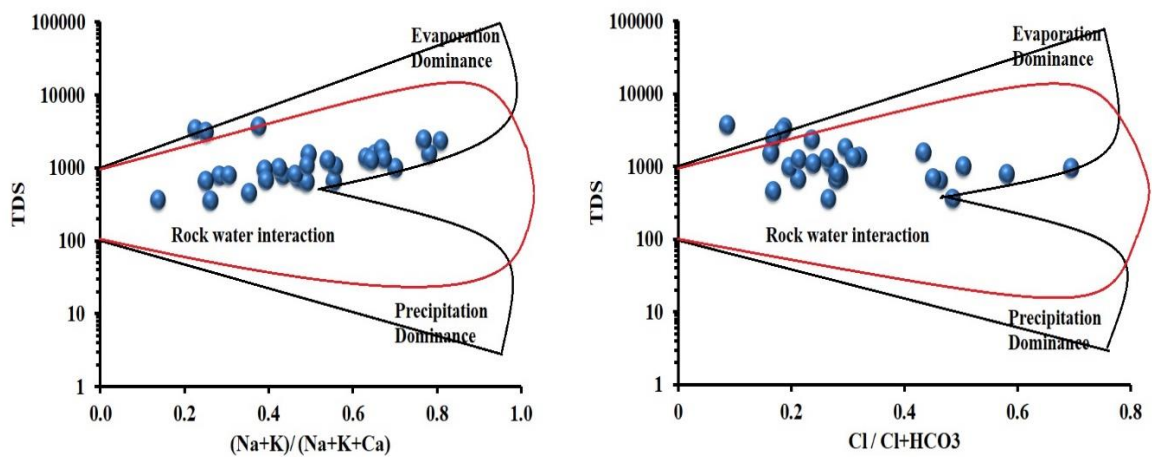


Fig. 6 Gibbs plot of the study area

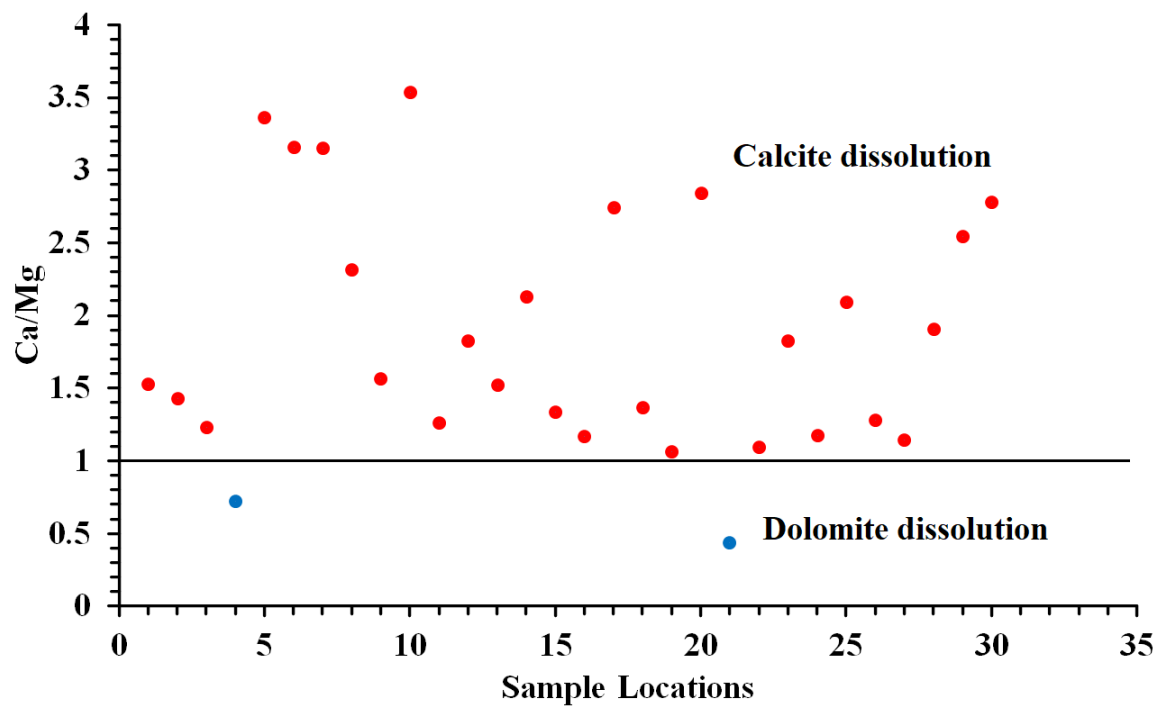


Fig.7 Molar ratio of Ca-Mg indicates dissolution of groundwater

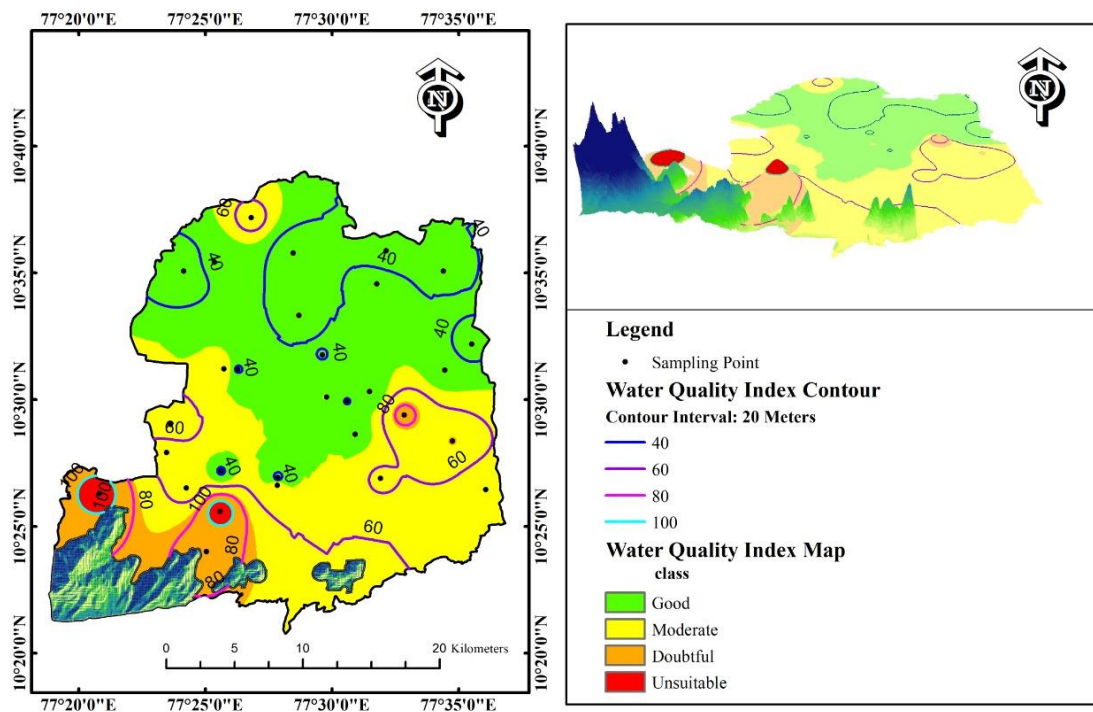


Fig.8 WQI map of the study region

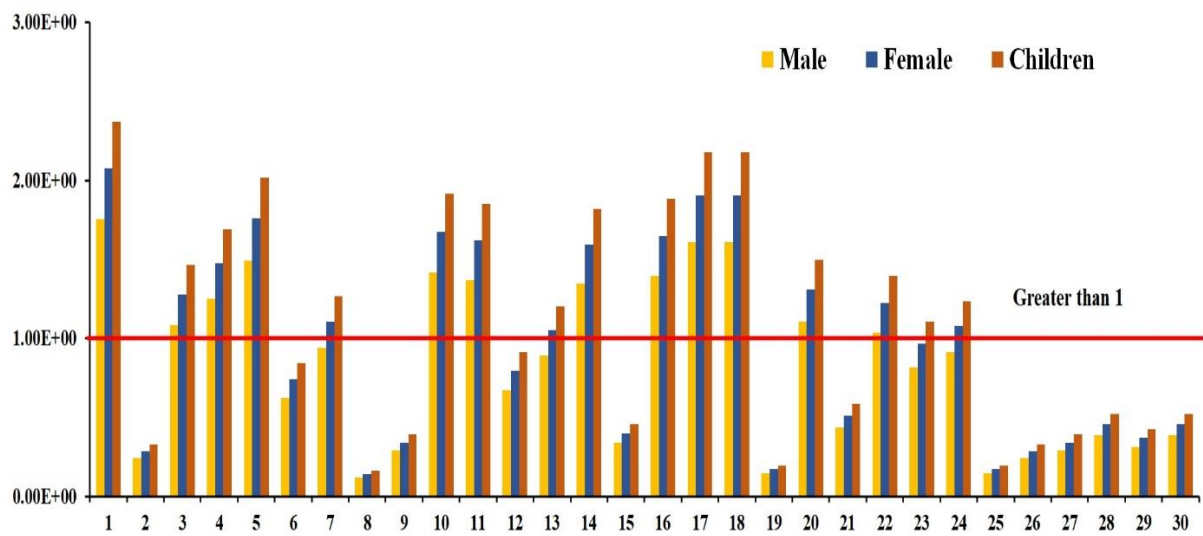


Fig. 9 Hazards index value in the study area

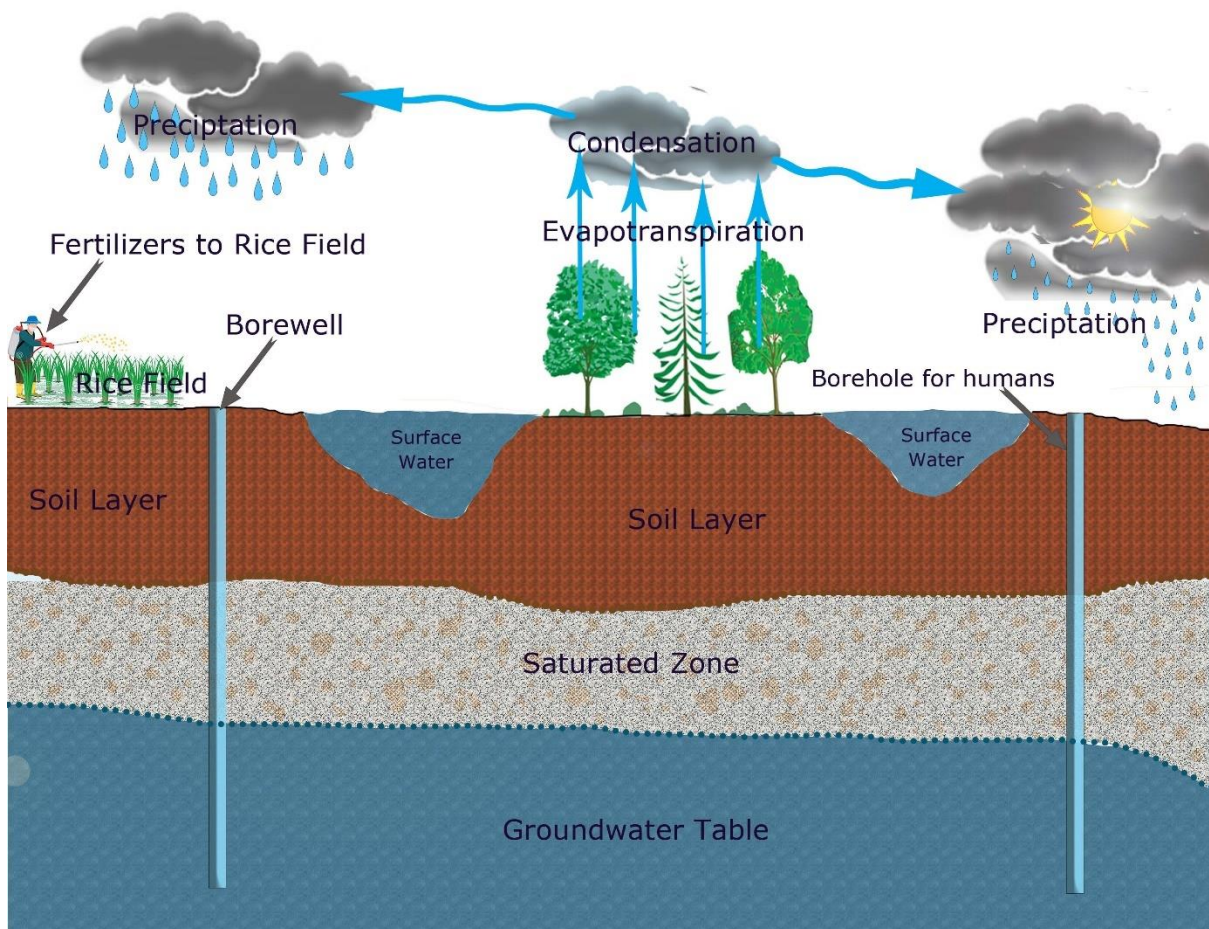


Fig. 10a Conception diagram of aquifer system in study area

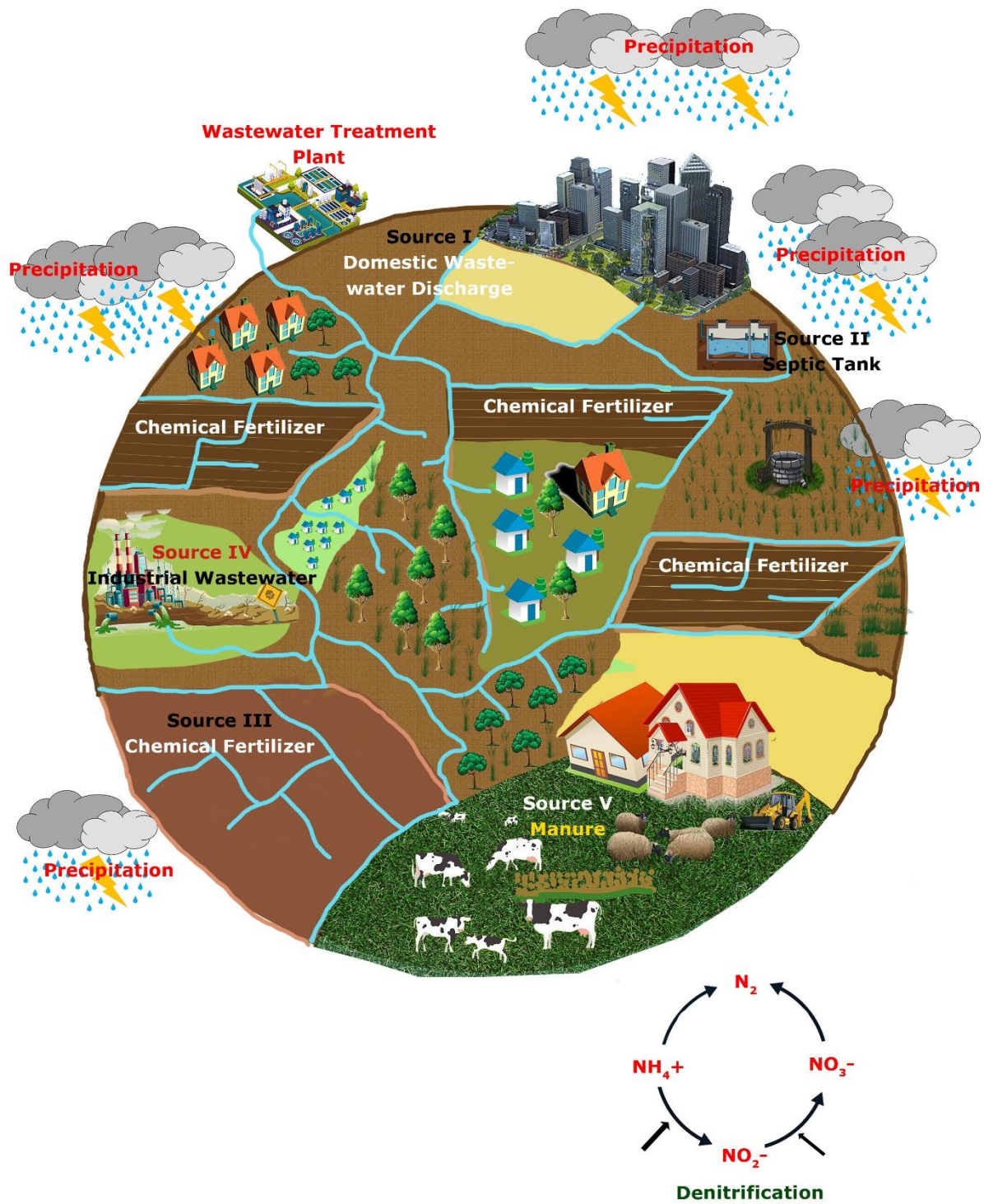


Fig.10b Conceptual diagram of different source of nitrate contamination

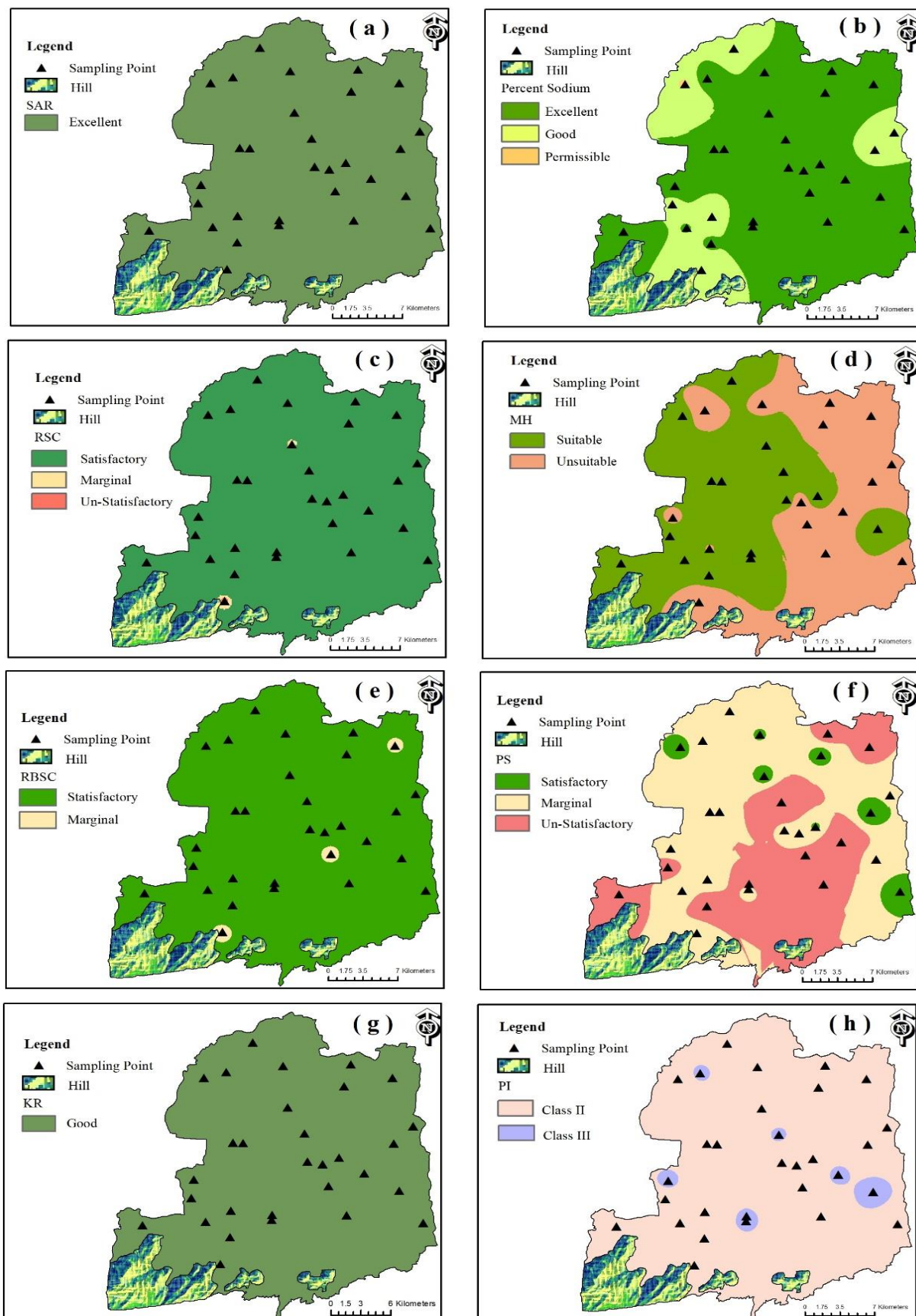


Fig. 11 Spatial analysis of a) SAR b) %Na c) RSC d) MH e) RBSC f) PS g) KR h) PI

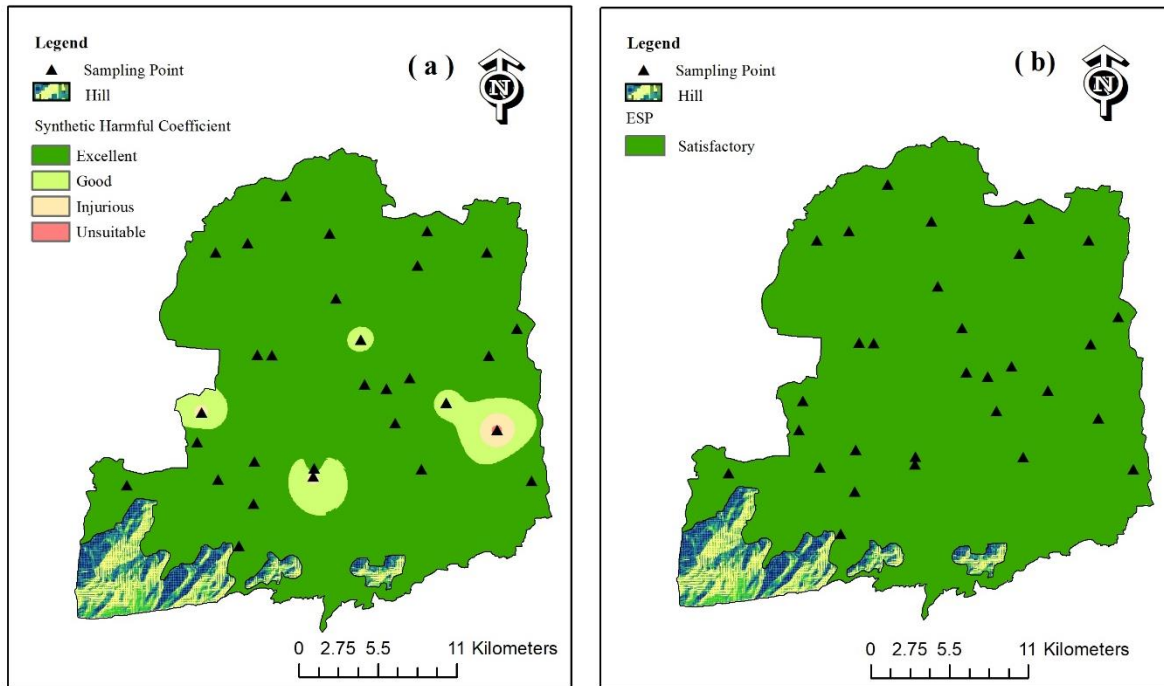


Fig. 12 Spatial analysis of a) Synthetic harmful coefficient b) ESP

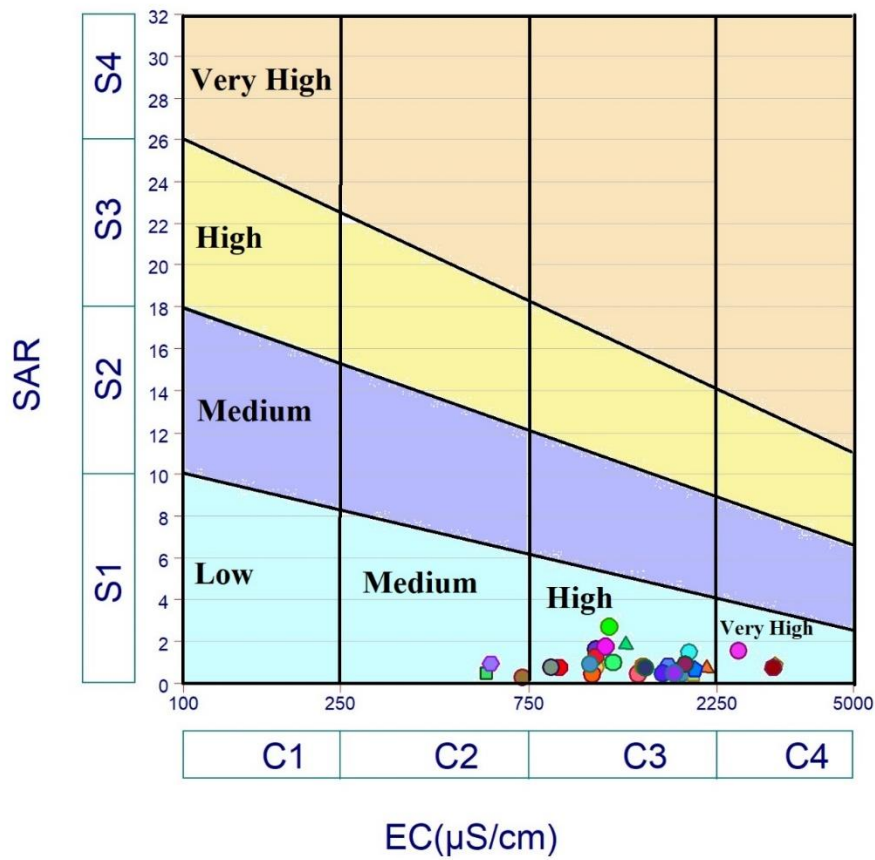


Fig. 13 USSL diagram for groundwater samples

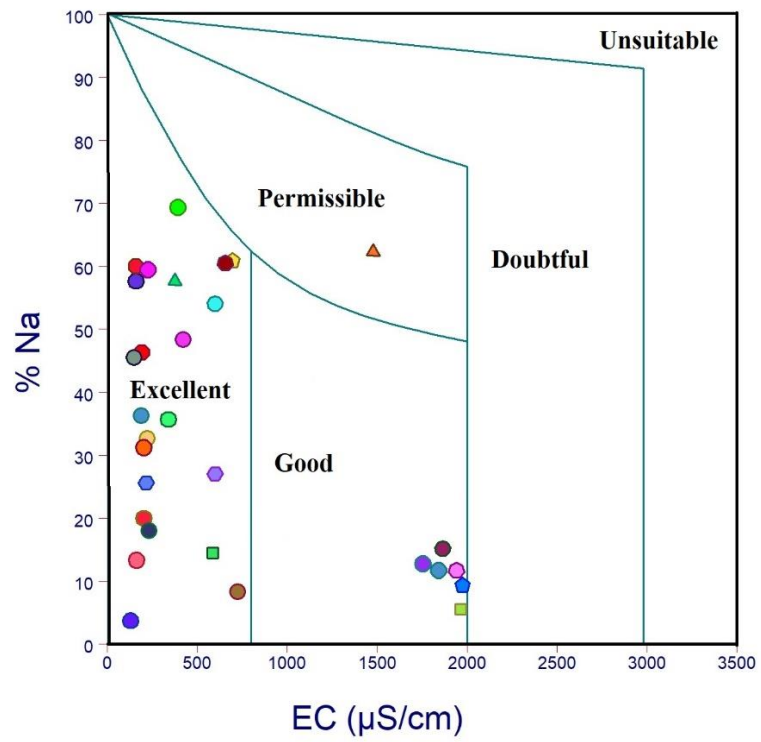


Fig.14 Wilcox classification of groundwater

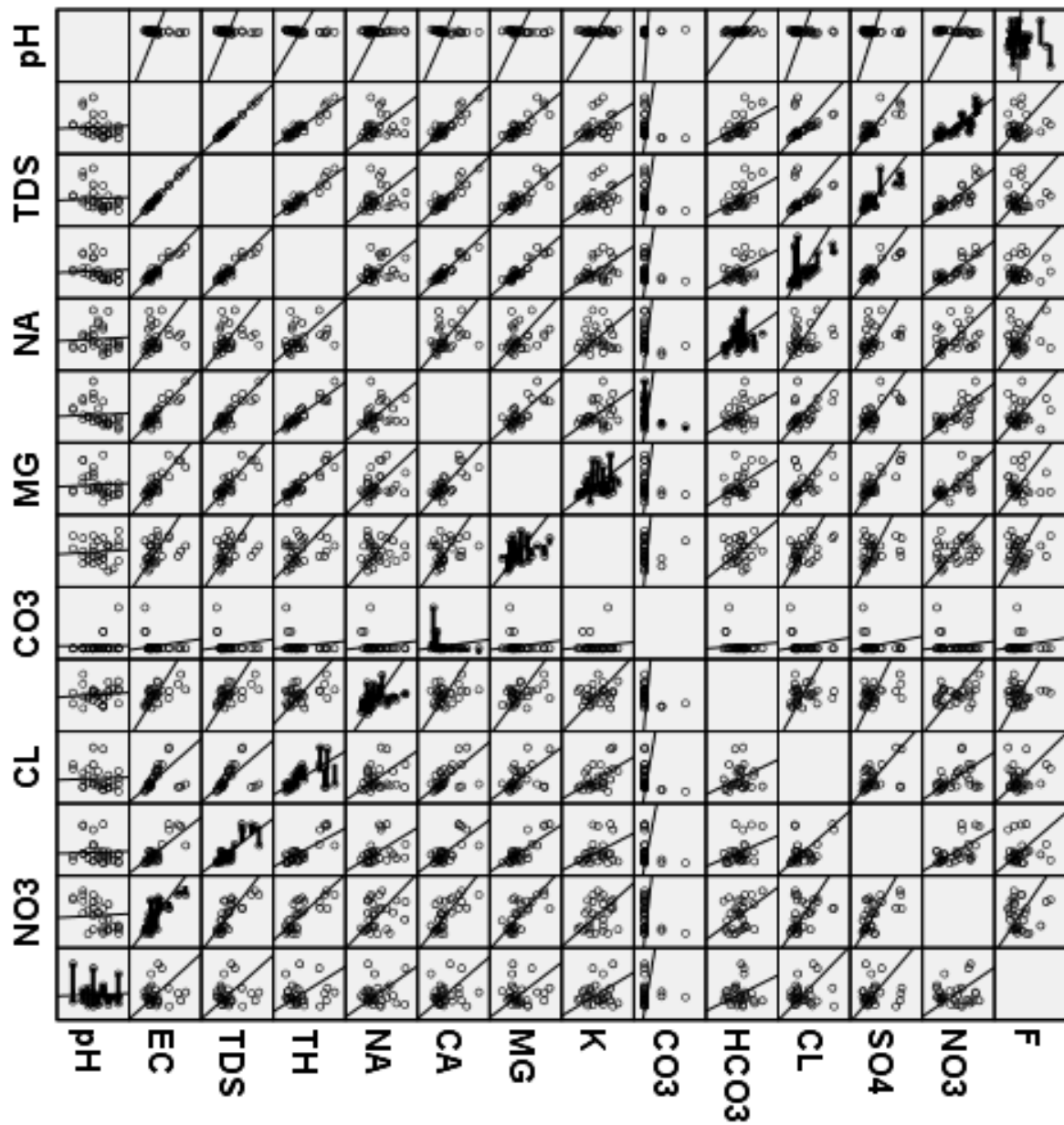


Fig.15 Scatter matrix plot of groundwater parameter

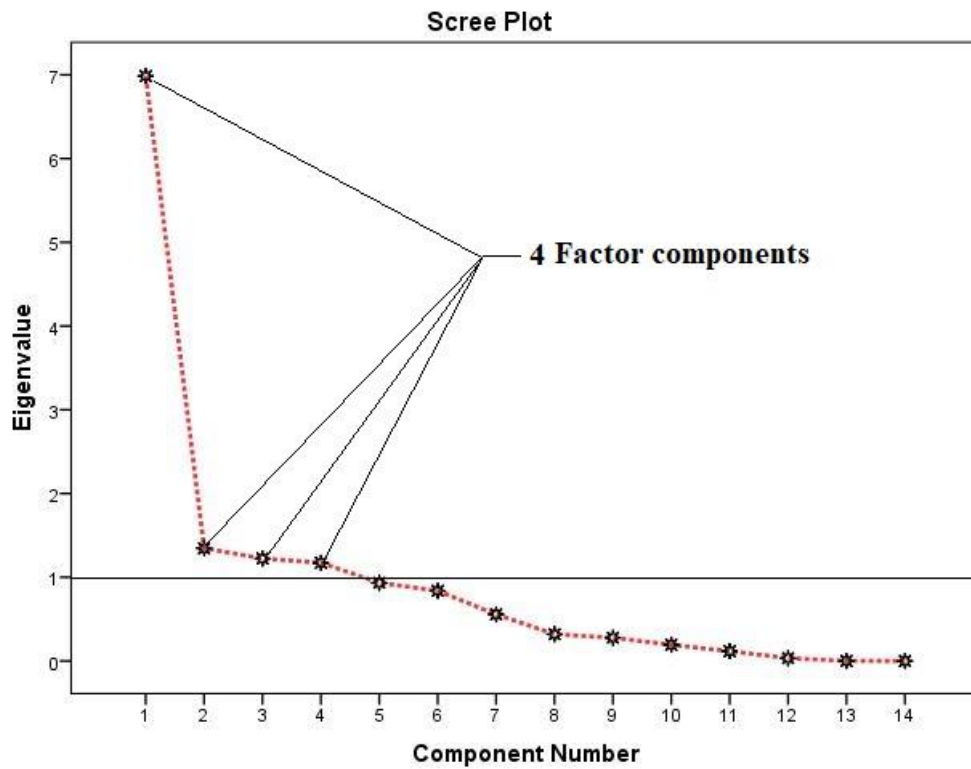


Fig. 16a Scree plot of the PCA

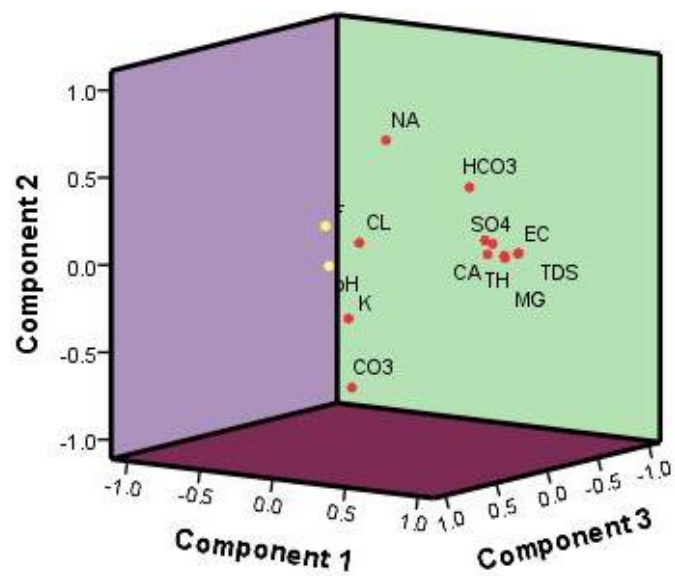


Fig. 16b Factor component plot in rotated space

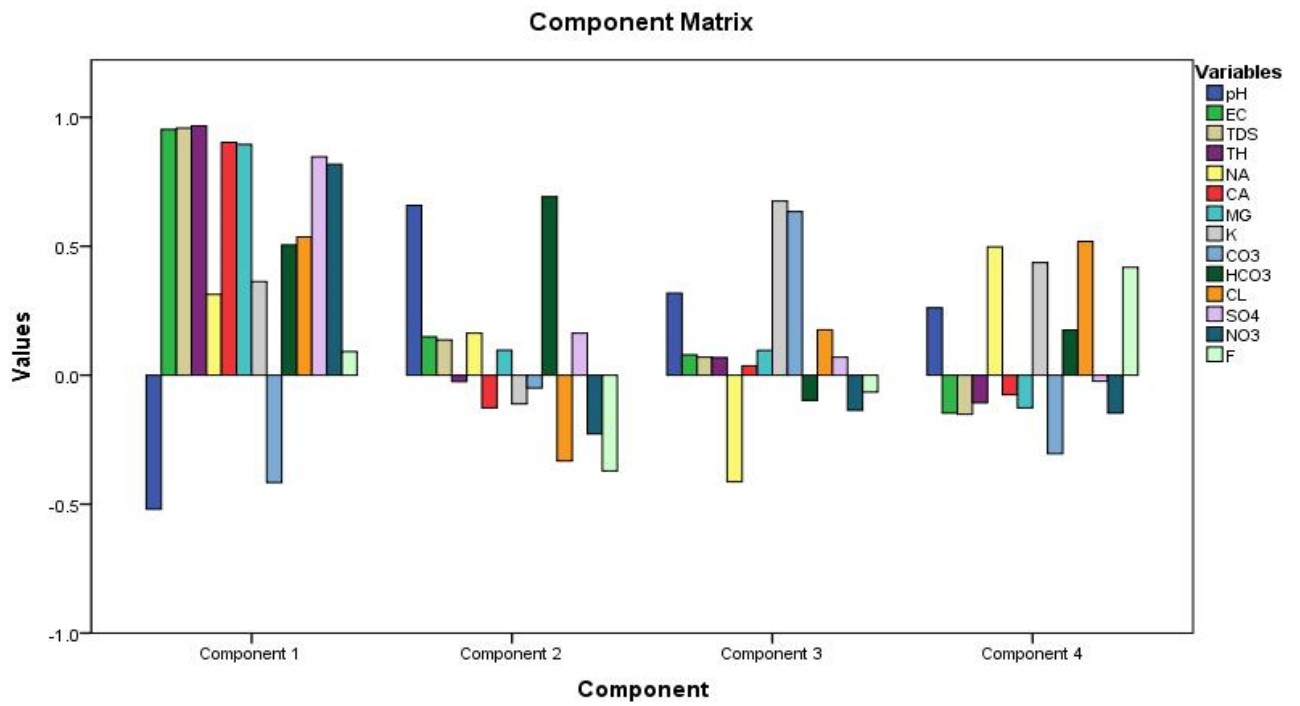


Fig. 16c Factor component of the water quality parameters

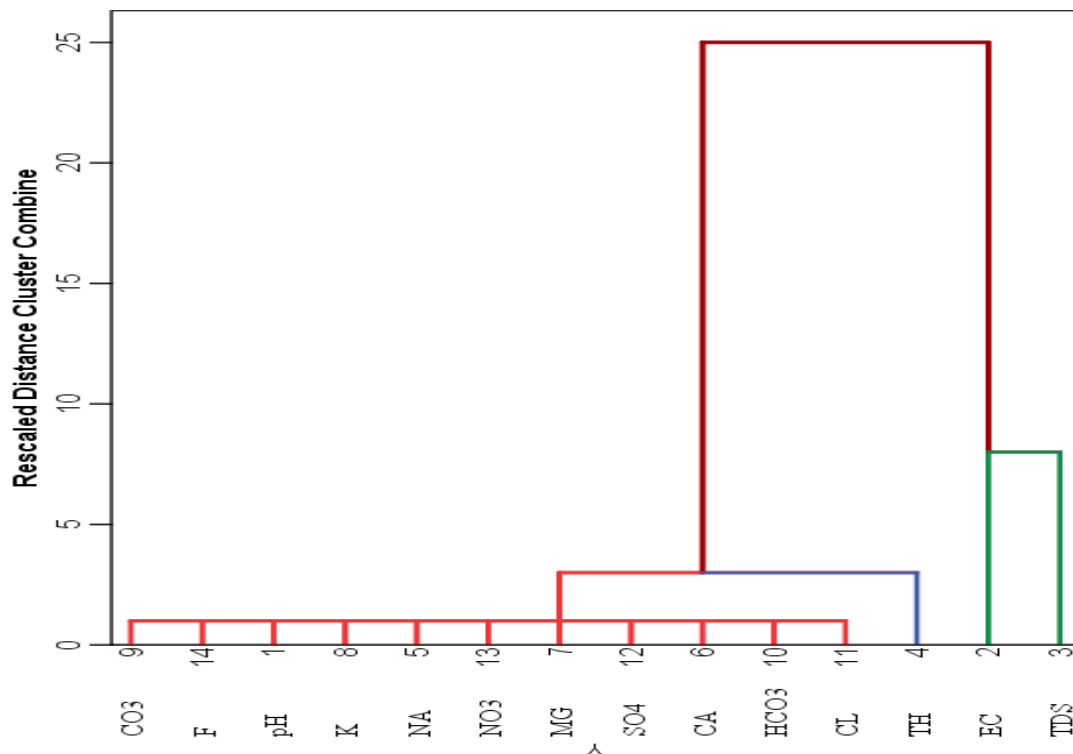


Fig. 17a Dendrogram plot average linkage between water quality parameter

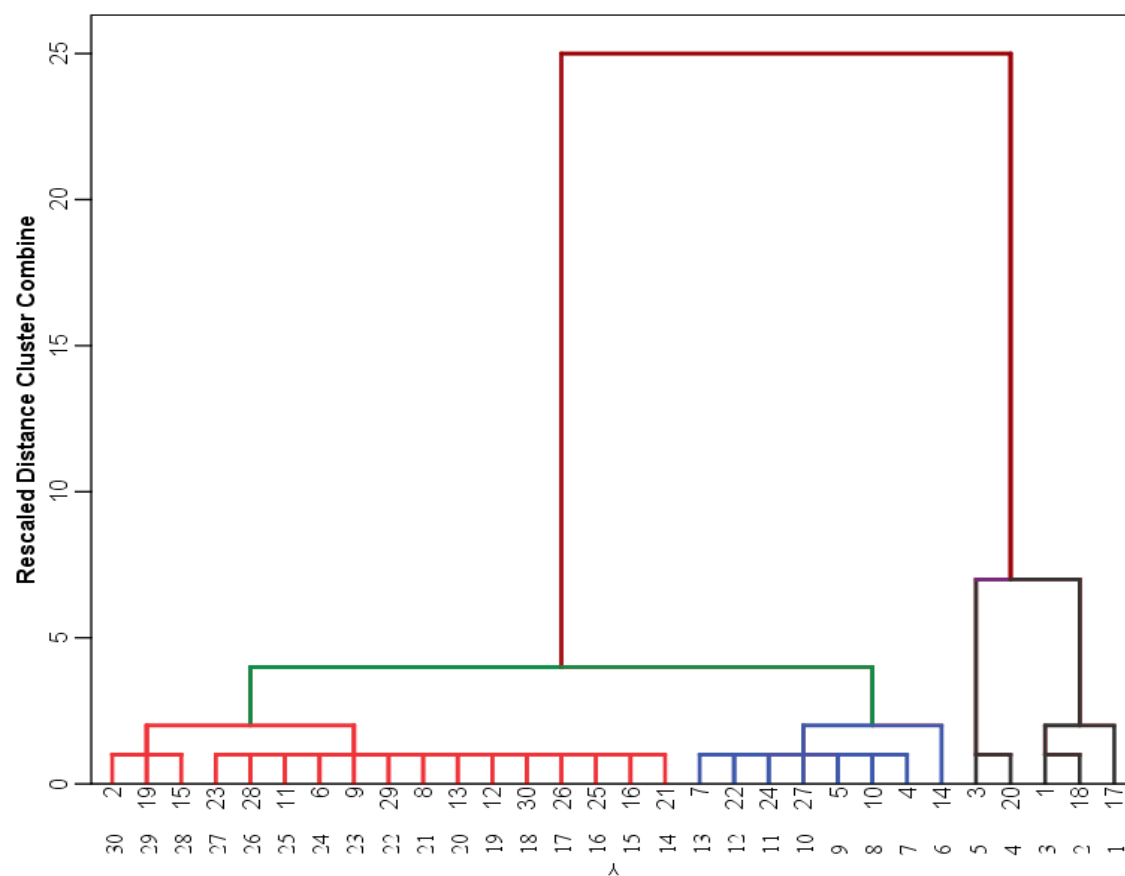


Fig. 17b Dendrogram plot average linkage between sample locations