

Quality Assessment of Groundwater in Rampachodavaram Division of East Godavari District, Andhra Pradesh

T Giri Shashank Reddy, P Mohana Rao, Y Sudha Rani and Ch Pulla Rao

Department of Soil Science and Agricultural Chemistry, Agricultural College, Bapatla.

ABSTRACT

Quality of ground water resources in the Rampachodavaram division of East Godavari district in Andhra Pradesh assessed for its suitability for irrigation. For this, one hundred and two (102) ground water samples were collected from study area in pre and post-monsoon seasons of 2017-2018). The ground water samples were analyzed for pH, EC, cations and anions viz., Ca^{2+} , Mg^{2+} , Na^+ , K^+ , HCO_3^- , CO_3^{2-} , Cl^- and SO_4^{2-} , SAR and RSC were also calculated. Eighty six per cent (86%) ground water samples were neutral (pH 6.5-7.5) in reaction in both pre and post- monsoon seasons while EC values of majority of water samples were under C_3 class (EC 0.75-2.25 dS m^{-1}) in both pre and post-monsoon seasons. The SAR and RSC values of majority samples were under S_1 (0-10) and A_1 ($< 1.25 \text{ me L}^{-1}$) classes in pre and post-monsoon seasons, respectively,

Key words: *Quality assessment, Groundwater quality, Irrigation.*