**ABSTRACT**

Three Pyrimidine amines (PA1, PA2 & PA3) have been synthesized and investigated for corrosion inhibition activity towards mild steel in 1M H2SO4. Weight loss, potentiodynamicpolarisation and electrochemical impedance spectral techniques have been used. Thermodynamic parameters [∆G°ads, ∆H° and ∆S°]have been evaluated. The compounds act through physisorption mechanism on the mild steel surface and obeyed Langmuir adsorption isotherm. Polarisation studies showed that the compounds behave as cathodic type.