In recent years, azo compounds and its complexes are a very important class of chemical compounds receiving attention in scientific research; these compounds are explored for their applications in different field [1-2-3] . Antipyrine and its derivatives are well known for pharmaceutical as well as medicinal applications also evaluated as analgesic,[4] anti-inflammatory,[5] antimicrobial,[6] and anticancer activity,[7-8-9] also Coordination complexes of 4-aminoantipyrine derivatives with transition metal had been widely studies for their anti-cancer properties and antimicrobial [10]. Most of the azo compound and their complexes have a variety of biological, clinical and analytical applications [11]. It is known that chelation of metal ions with organic ligand acts synergistically to increase their biological activities [12].

Antipyrine containing azo group have been investigated to have significant biological, antifungal, antibacterial activities and some industrial achiviements [13]Azo compounds are also used in the pharmaceutical industry. Azo compounds show herbicidal, anti-inflammatory, antimicrobial, or antiparasitic activity, antiulcer drug, antifungal, antibacterial, antitubercular, antibiotics [14-15].