



## **Upper Miocene Echinoderms and Crabs OF Mishan Formation in Firuzabad Fars, Iran (Zagros Mountain)**

Mehdi Dehbozorgi Dehbozorgi (1), Mostafa Sabouhi Sabouhi (2), and Hamid Nabavi Nabavi (3)

(1) Master of science in Geology (Paleontology), University of Isfahan, Iran. (M.dehbozorgi@yahoo.com), (2) Young researcher club, Islamic Azad University north Tehran branch., (3) Master science of petroleum geology, Islamic Azad University, science & reserch branch Tehran, Iran.

The outcrops of Mishan Formation located in Aghar area (Firuzabad city) south west of Fars and 70km south west of Firuzabad. this Formation mostly consist of limestone, marly limestone and marlstone with 800m thickness. 6key beds distinctive from limestone beds are recognized in this area. In order to paleontological studies Mishan formation Middle- Upper Miocene beds in south west Firuzabad city investigated. Upper and lower boundaries of Mishan formation are conformable with Razak and Aghajari formations. In addition, assemblage of Gastropods, Bivalves, calcareous alga, bentic foraminifera, beryozoa were obtained that showing shallow sedimentation environment and open marine platform. Echinoderms are assigned to order Clypeasteroidea and genus Scutella faujast, Schizaster sp, Oligopygus wetherbyi, Periarchus lyelli. Crabs be assigned to subphylum Crustacea and order Decapods: Portunus cf. gibbesii(1859). With due attention to rang and distribution of the Macrofossils, 5 local assmblage biozone were recognized, that is confirming time limit from Early- Upper Miocene.