
Biological studies on minimizing the radioactive elements level of phosphogypsum produced during ABU Zaabal phosphoric acid manufacture for safe uses

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During the production of phosphoric acid via reacting phosphatic oresamples with sulphuric acid under certain industrial circumstances calcium sulphate is precipitated as bi-product in the form of phosphogypsum as general Phosphogypsum products generally may have some radioactive component such as uranium, thorium and radium which derived from original processed or phosphatic samples delivered from natural locations (Red sea, Elsaebaaya or Abu tartoor) -Utilizing the natural bio-organisms for extraction of some proposed element by bio leaching or depletion or retention or capturing is applied in many world industrial and Lab researches especially for phosphogypsum decontamination to prepare a safety usable sample for building in certain concerts as an example The huge produced quantities of