



## 2-5 ملخص المشروع البحثى باللغة الانجليزية (صفحة واحدة).

The project will be targeted toward the policy for sustainable agricultural development needs to improve the productive and reproductive potential of cattle and buffaloes kept under the village system of management, especially if we considered that the small farmers own not less than 90% of the total animal population in Egypt. Control of prepartum and postpartum uterine infections by active immunization against the non-potential pathogens is the main objective to enhance the normal uterine involution, shorten the days open period and consequently to raise the conception rate after first service. A formalized polyvalent vaccine will be prepared in the laboratory from strains of non-potentially pathogens completely isolated from cases with purulent endometritis or pyometra. Results on rate of conception, bacterial isolation and identification, the geometric mean titre of antibodies and histopathological findings before and after treatment will be indicated. By this project, an economic impact will be attained from maintaining the animal in good general health condition and keeping the animal in sustainable productive and reproductive cyclic.