

FINAL REPORT ON MINOR RESEARCH PROJECT

Reference: F. 13-2 / 97 (SR-I)

Title of the project: Study of free group actions on finite CW-complexes.

Date of execution of the project: September, 1997.

Duration of the project: 2 years.

Financial assistance:

Sanctioned: Rs.20,000/- (Twenty thousand only)

Received: Rs.15,000/- (Fifteen thousand only)

(a) Objectives:

The study of free actions of finite groups as well as positive dimensional compact Lie groups on nice spaces like spheres, Euclidean spaces, real and complex projective spaces, etc. has been a very active area of research. These actions are intimately related not only to the topological properties of above spaces but also with geometrical properties of them as well. An interesting consequence of the existence of free actions is in the construction of several homogeneous spaces which form the foundations of symmetric spaces, carrying beautiful