We have investigated structural, magnetic and magnetocaloric properties of powder peroveskite manganites $Pr_{0.6}Sr_{0.35}M_{0.05}MnO_3$ (M= Ag, K). All our simples have been elaborated using the conventional solid state reaction at high temperature. X-ray diffraction carcterizations show that all our synthesized simples cristallize in the distorted orthorhombic system with pbnm space group.

The magnetization measurement versus temperature M(T) curves at 50mT show a paramagnetic PM to ferromagnetic FM transition when the temperature decreases. From the isothermal magnetization curves we have determined the magnetic entropy change close to their respective Curie temperature T_c as well as relative cooling power RCP. The maximum of magnetic entropy change of 2.45 and 2.67 $JKg^{-1}K^{-1}$ were obtained in $Pr_{0.6}Sr_{0.35}Ag_{0.05}MnO_3$ and $Pr_{0.6}Sr_{0.35}K_{0.05}MnO_3$ samples upon a magnetic field change of 5T was applied.