1145-35-481Dipendra Regmi* (dipendra.regmi@ung.edu), University of North Georgia, 3820 Mundy Mill
Rd, Oakwood, GA 30566. The 2D magneto-micropolar equations with partial dissipation.The magneto-micropolar equations model the motion of electrically conducting micro-polar fluids in the presence of a
magnetic field. We study the global existence and regularity of classical solutions to the 2D incompressible magneto-
micropolar equations with partial dissipation. We establish the global regularity for one case and conditional regularity
for other two cases. (Received September 07, 2018)