The below patches will be merged in the next release of mbdyn.

Patching Instruction

* Apply the “**latest.patch”** to the file /mbdyn/modules/module-cyclocopter/module-cyclocopter.cc
* Apply the **“aeroelem.cc.patch”** to the file /mbdyn/aero/aeroelem.cc
* Apply the **“aeroelem.h.patch”** to the file /mbdyn/aero/aeroelem.h
* Apply the “**ModuleUpdate.patch**” to the file /mbdyn/manual/input/modules.tex
* After applying the patch compile using these commands inside the \mbdyn folder
  + **./configure --prefix=/usr/local/ --enable-runtime-loading=yes --with-module=cyclocopter CPPFLAGS="-I/usr/include/suitesparse" --with-umfpack LDFLAGS=-rdynamic --with-metis=no --enable-netcdf**
  + **make -j4**
  + **make install -j4**

Test Case

* Modified input file is “**CROP.mbd**”

Report

* Complete theory, procedure followed (Implementation of code) and results are available inside the **“GSoC\_Final\_Report\_Kuldeep.pdf”**

**Work Done**

* Code for **inflow velocity magnitude** for cycloidal rotor using Double Multiple Stream Tube

**Work To Be Done**

* This velocity magnitude should be **divided into proper components**. There was little confusion with reference frame(Global and Local).