Supplementary figure captions

Fig.1 X-ray diffraction pattern performed on Ni_3TeO_6 crystal powder (lower) and Ni_3TeO_6 single crystal having (003) orientation (upper).

Fig. 2 Peak Indices of x-ray diffraction pattern of Ni_3TeO_6 crystal powder.

Fig. 3 Superimposed x-ray diffraction patterns of (101) & (b) (003) planes Ni3TeO6 single crystals.

Fig. 4 Thermal variations of derivative of dc magnetic susceptibility carried out on Ni_3TeO_6 single crystal in the parallel and perpendicular directions.

Fig.5 Magnetization curves of Ni_3TeO_6 single crystal in the parallel and perpendicular directions at 10 K.

Fig. 6 Temperature dependence of the dc magnetic susceptibility χ of Ni_3TeO_6 (003) plane single crystal, measured employing a weak magnetic field of 100 Oe in the perpendicular direction. Two anomalies at 60 and 52 K are clearly evident in the inset.

Fig. 7 Temperature dependence of the dc magnetic susceptibility χ of Ni_3TeO_6 (003) plane single crystal, measured employing a strong magnetic field of 10000 Oe in both the parallel and perpendicular direction. Only one anomaly at 52 K is seen.

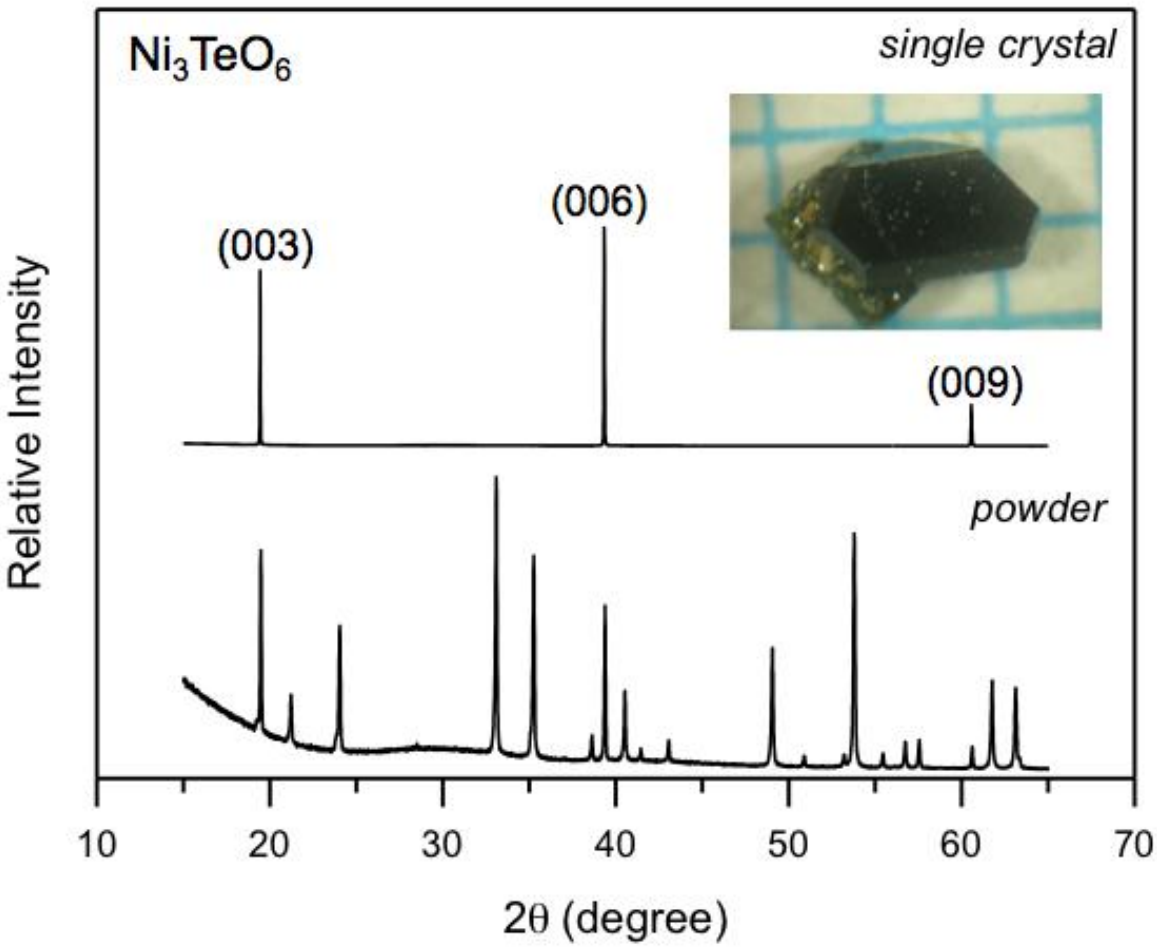


FIG. 1

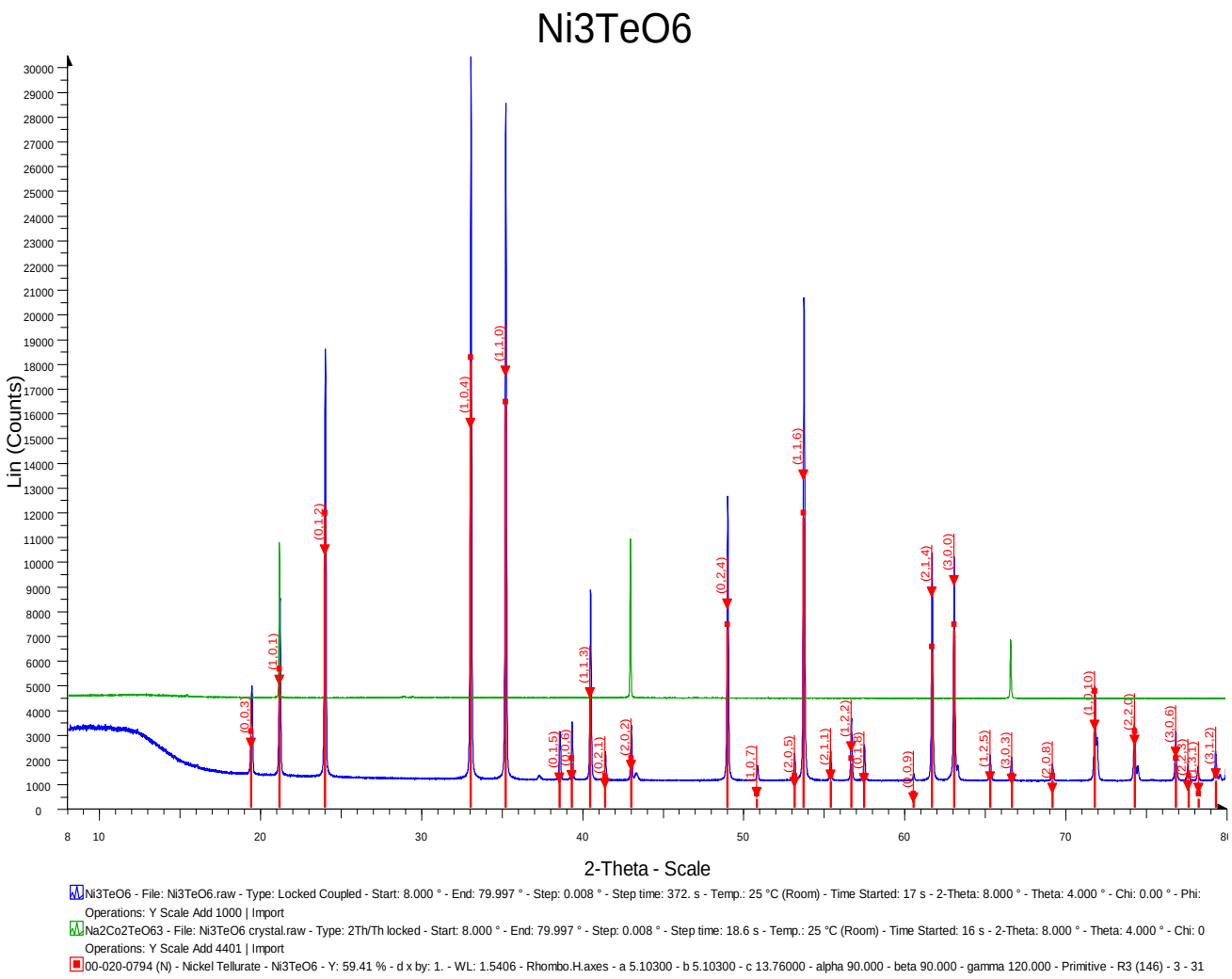


FIG: 2

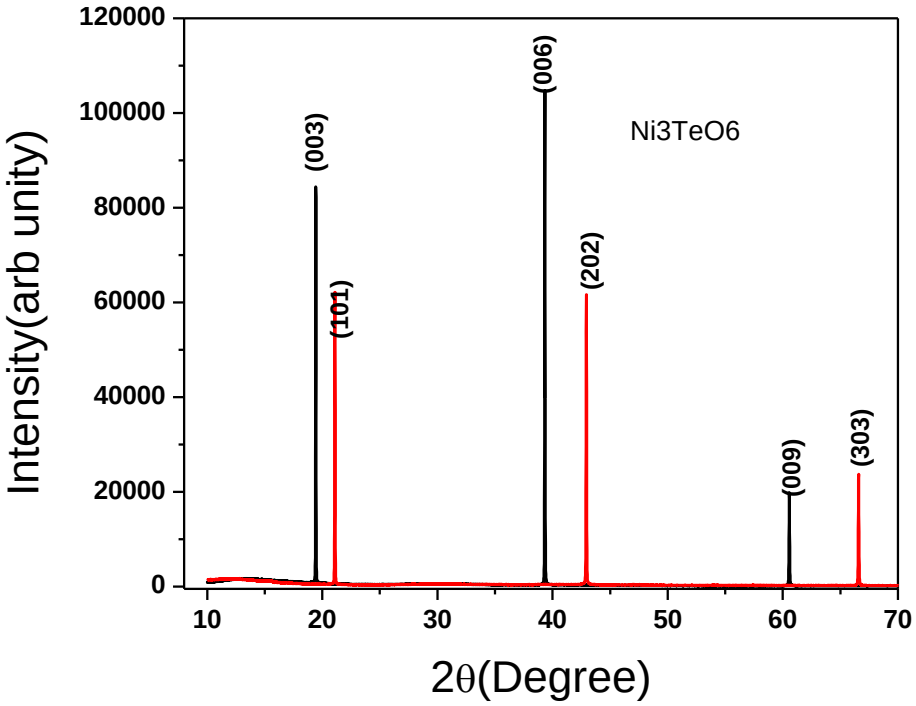
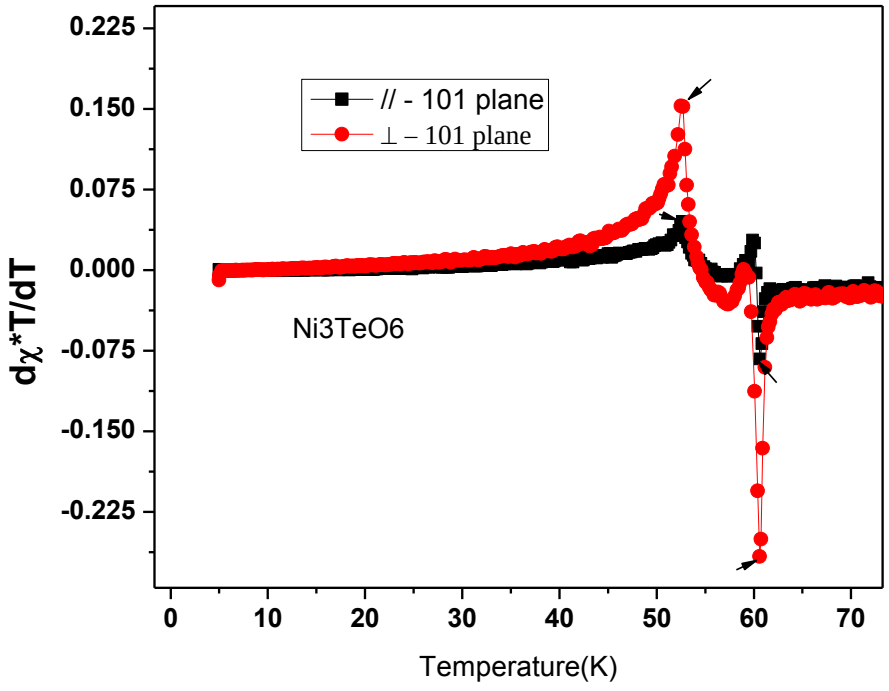


FIG:3



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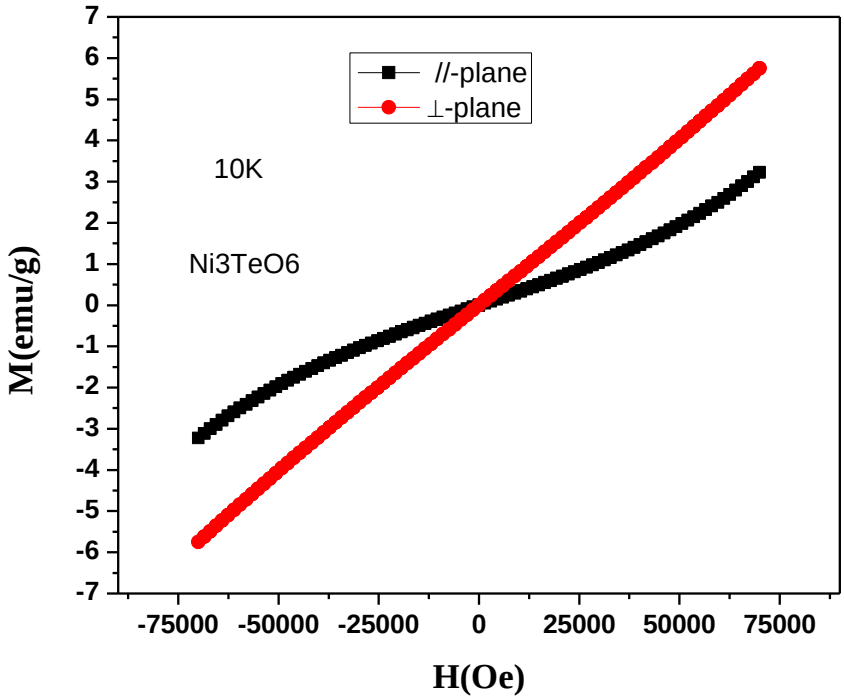

Fig : 5

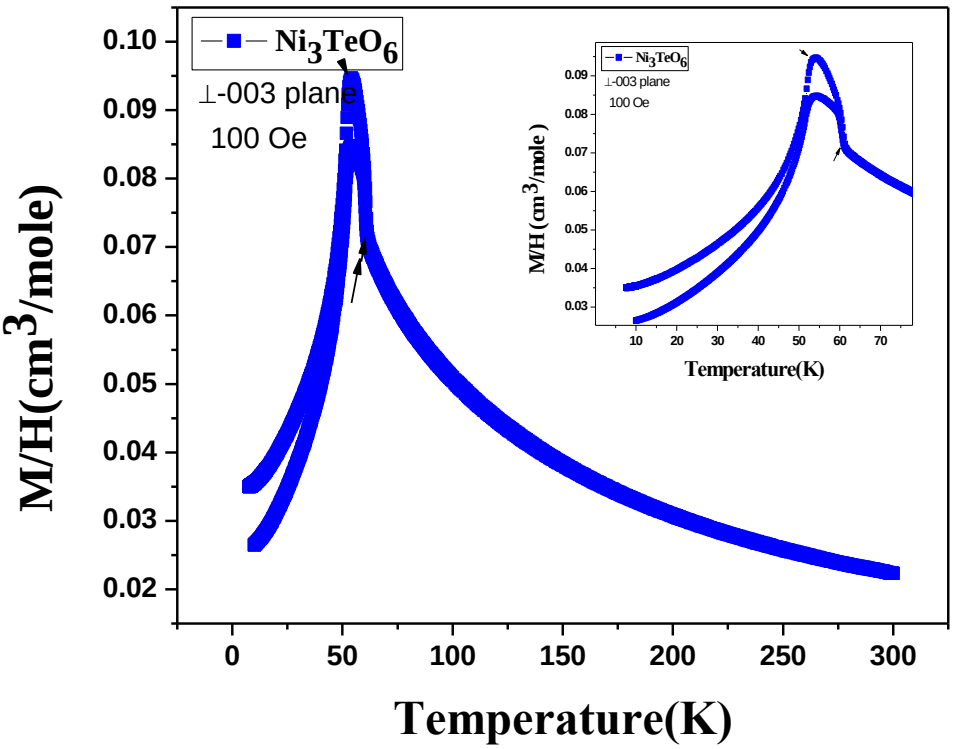

FIG: 6

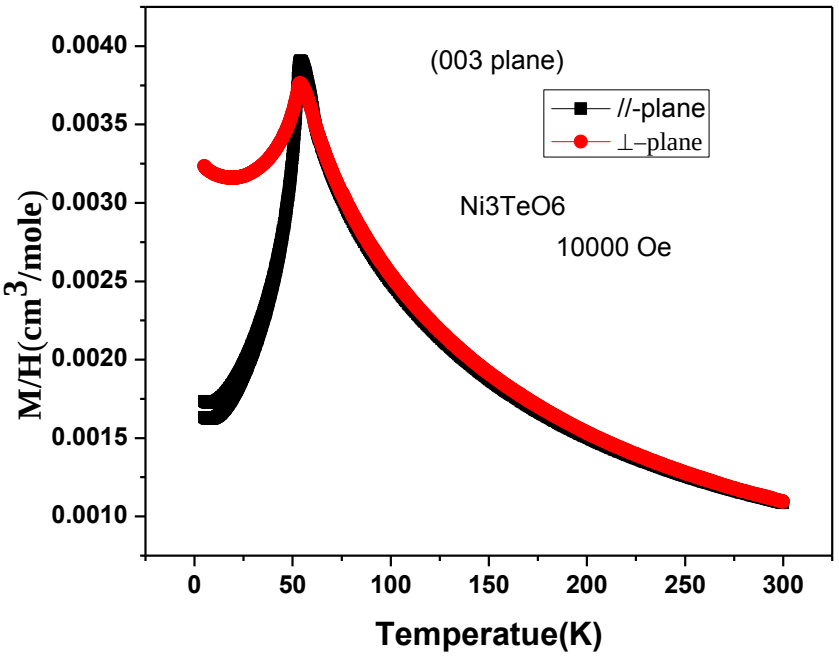

FIG:7