CONCLUSION

- We have synthesized New chalcones by using New aldehydes and the transition metal complexes of the synthesised chalcones.
- The synthesized chalcones are acting as a bidenate ligands and forms stable transition metal complexes.
- All the chalcone complexes of transition metals are non-electrolytic in nature.
- The electronic spectral data suggest that all Cu(II) and Zn(II) complexes have concluded square planar geometry and all Ni(II), Fe(II), Co(II) complexes have concluded octahedral geometry.
- All the synthesised compounds show significant antimicrobial activity.
- Some metal complexes such as Cu(II), Ni(II) and Co(II) complexes, showed enhance activity against some bacteria than their the corresponding ligand.