

# **CONCLUSION**

- Aniline acts as a stabilizer for metal nanoparticles.
- $1 \times 10^{-4}$  M concentration of metal salt is optimum to yield fine sized nanoparticles.
- Emeraldine base form of the polyaniline exhibits conductivity due to the incorporation of zero valent metal.
- The presence of metal ions in the polyniline matrix renders selectivity towards particular chemical vapours in presence of zero valent metal ion.
- Pd-Pani and Au-Pani nanocomposites are sensitive to methanol vapours and Ag-Pani nanocomposite is sensitive to ammonia vapours.