Electronic Supplementary Information

Lanthanide (III) Morpholine 4-Dithiocarbamate Complexes: Pr(III) Derivative Shows First Example of Polymeric Lanthanide(III) Dithiocarbamate

Mamata Mahato, a Partha P. Jana, b Klaus Harms c and Hari Pada Nayek * a

a Department of Applied Chemistry, Indian School of Mines, Dhanbad-826004, Jharkhand, India. E-mail: hpnayek@yahoo.com

b Department of Chemistry, Indian Institute of Technology Kharagpur, India. 721302. E-mail: ppj@chem.iitkgp.ernet.in

c Fachbereich Chemie, Philipps Universität Marburg, Hans Meer-wein Strasse, Marburg, Germany
Figure S1: Fragment of 1D polymer of 1.

Figure S2: Molecular packing of 1 within the unit cell viewed along crystallographic b axis.
Figure S3: Molecular packing of 2 within the unit cell viewed along crystallographic b axis.

Figure S4: Molecular packing of 3 within the unit cell viewed along crystallographic b axis.
**Figure S5:** UV-vis spectra of Mph-Dtc and phenanthroline ligands in acetonitrile.

**Figure S6:** Solid state diffuse reflectance spectra of 1.
Figure S7: Solid state diffuse reflectance spectra of 2.

Figure S8: Solid state diffuse reflectance spectra of 3.