Electronic Supplementary Material for CrystEngComm

Supporting Information

Hydrogen bond directed Open-Framework of Bis(Bipyridine-glycoluril) Phosphatocobalt(III) with Solvent Accessible Void Space

Avinash S. Kumbhar[a]*, Megha S. Deshpande[a] and Raymond J. Butcher[b]

[a]*Department of Chemistry, University of Pune, Pune- 411 007, India. Fax: (+91)- 020-25691728; Tel: (+91)- 020- 25601394(534);E-mail: askum@chem.unipune.ernet.in*

[b]*Department of Chemistry, Howard University, Washington DC 20059, USA. Fax:* 202-806-5442*; Tel:* 202-806-6886*; E-mail: rbutcher@howard.edu*

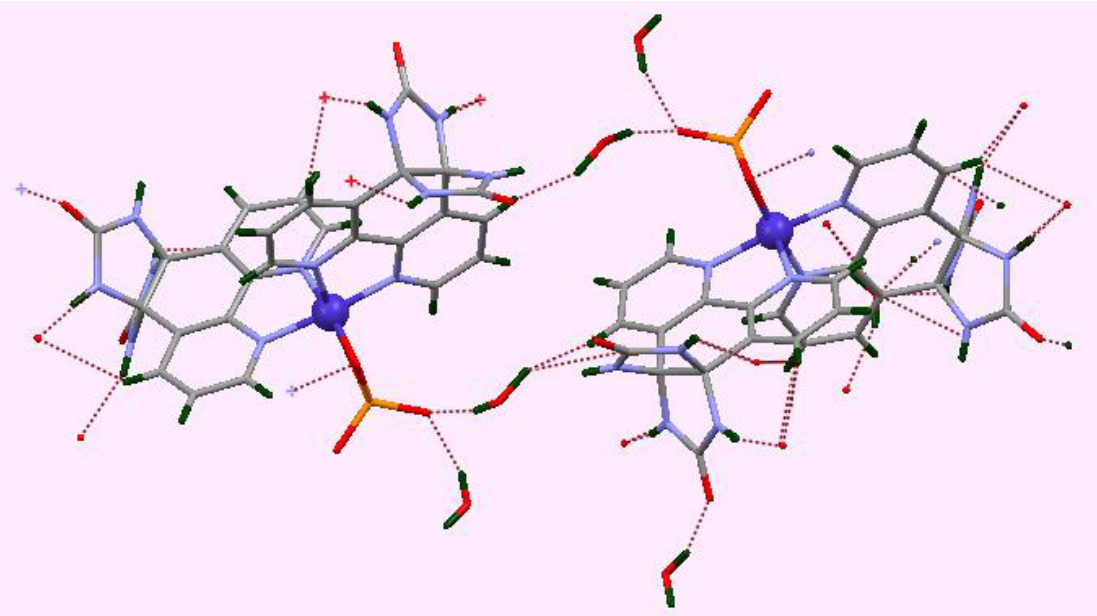

Figure S1. Two molecules are linked by H-bonding interactions (C-H···O, N-H···O and O-H···O) formed through the water molecules with up and down arrangement of the molecules.

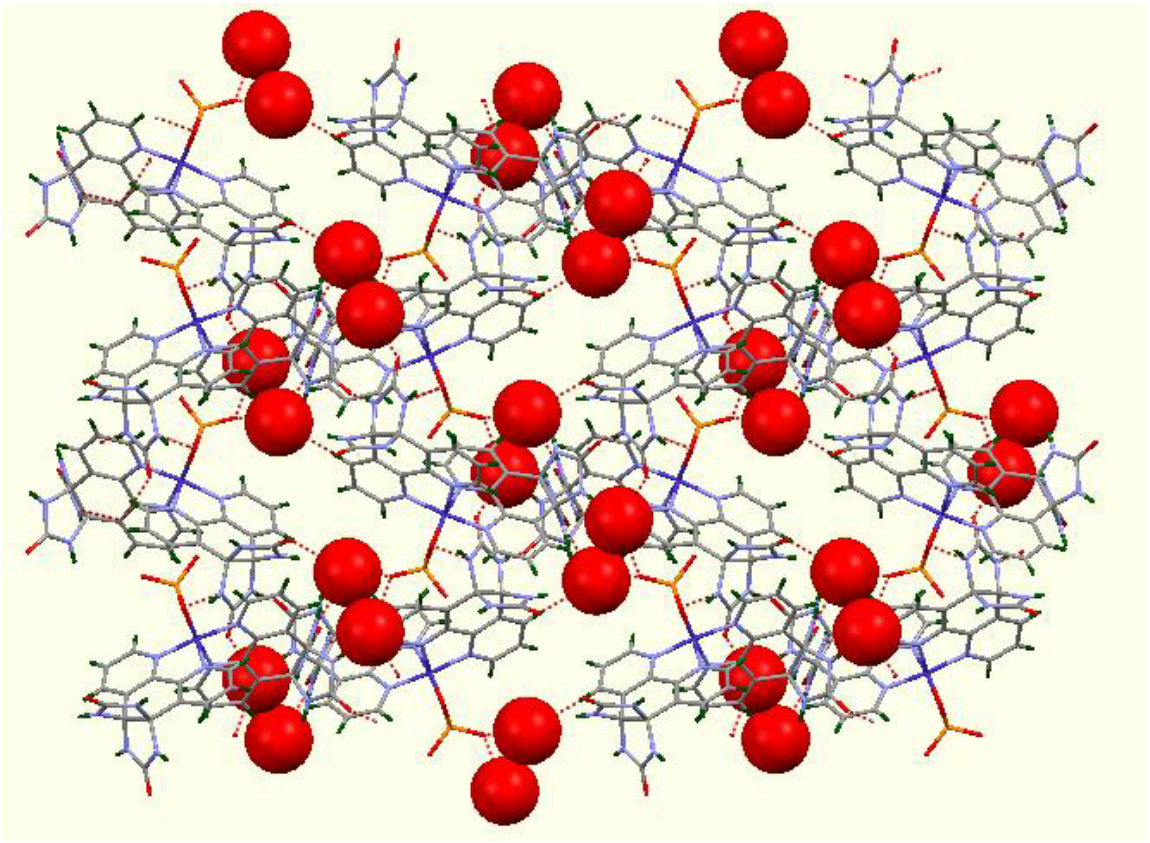

Figure S2. Packing of the molecules when viewed down ‘c’ axis in the plane forming cavities which are occupied with lattice water molecules (red balls).

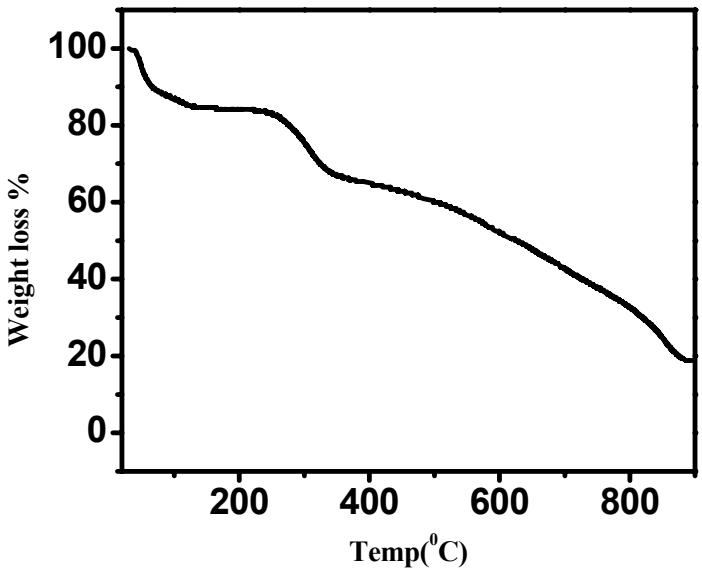

Figure S3. Thermogravimetric curve of the compound **1** in nitrogen atmosphere at a heating rate of 10 °C min^{-1} showing the weight loss of the sample on increasing the temperature.

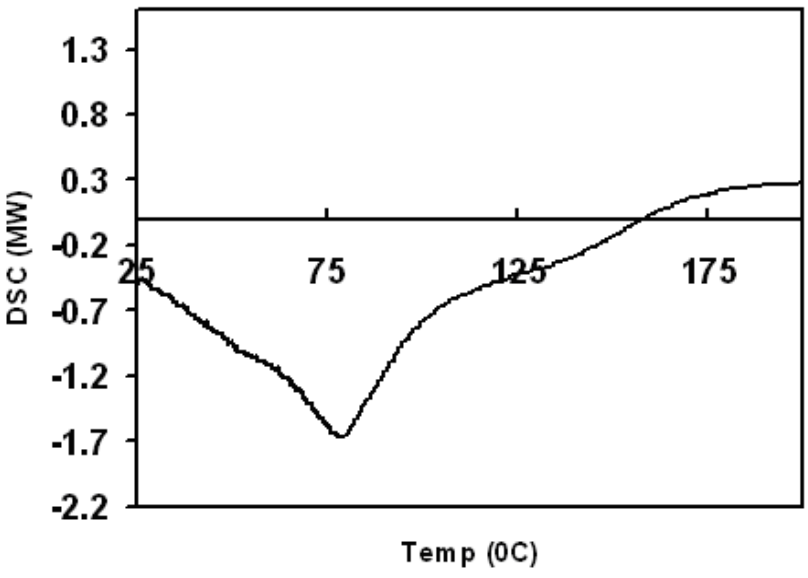

Figure S4. Differential scanning calorimetric plot of the compound **1** showing endotherm due to loss of water molecules.

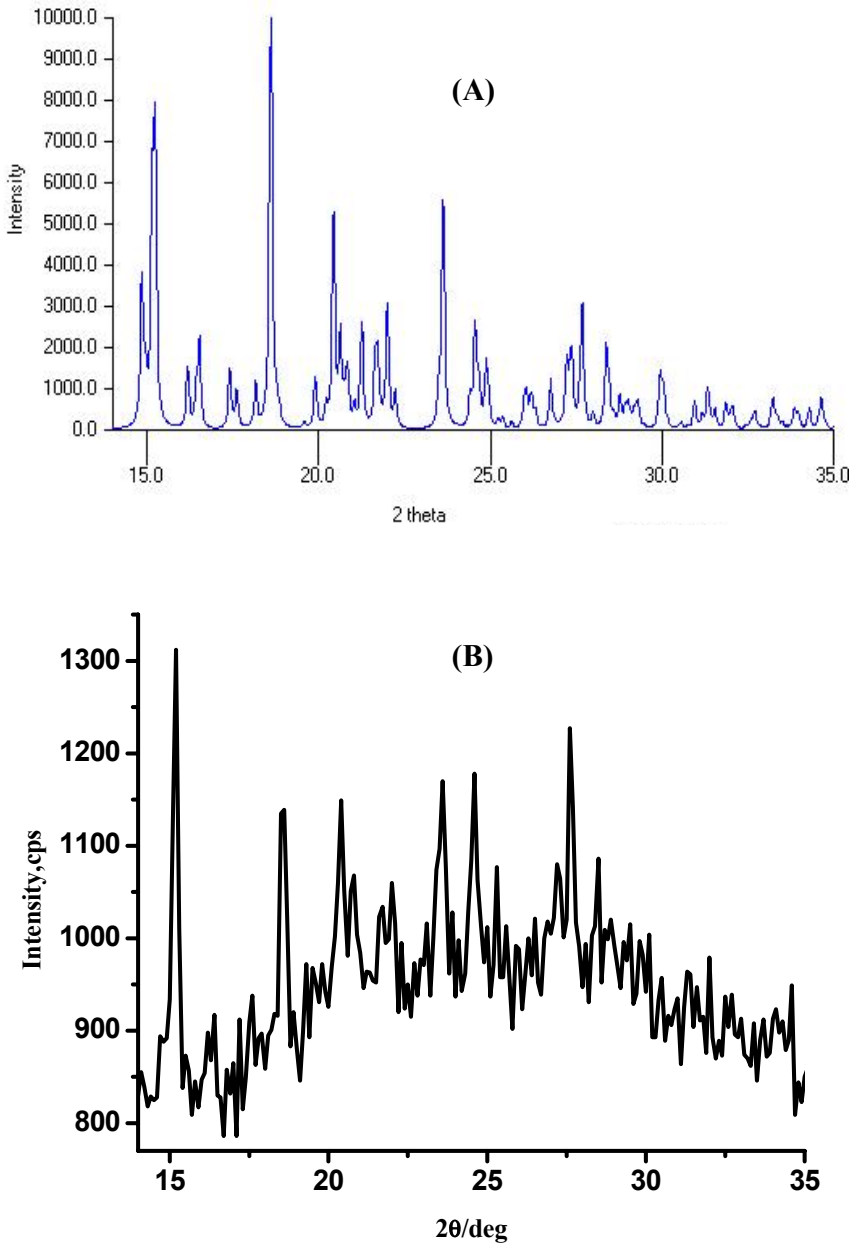

Figure S5. The X-ray powder diffraction patterns of **1**: (A) simulated from single crystal data and (B) making powder of **1**.