**Supplementary Data**

**Synthesis and characterization of MgO supported Fe-Co-Mn nanoparticles with exceptionally high adsorption capacity for Rhodamine B dye**

Somayeh Rahdar1, Abbas Rahdar2\*, Muhammad Nadeem Zafar3\*, Syed Salman Shafqat4

1Department of Environmental Health, Zabol University of Medical Sciences, Zabol, Iran

2Department of Physics, University of Zabol, Zabol, P. O. Box 98613-35856, Iran

3Department of Chemistry, University of Gujrat, Gujrat, 50700 Pakistan

4Department of Chemistry, University of Education, Lahore, 54770 Pakistan



**Fig. S1 - Structure of Rhodamine B (RhB)**



**Fig. S2 - BET isotherm of MgO-FCM-NPs**



**Fig. S3 - Regeneration of MgO-FCM-NPs for RhB by 5% acetic acid/ethanol (v/v)**