**Supporting Information**

**Insight into the** **performance of novel kaolinite-cellulose/cobalt oxide nanocomposite as green adsorbent for liquid phase abatement of heavy metal ions: Modelling and mechanism**

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**Calibration plot of Pb2+**

Figure S1a

**Chart, scatter chart

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Figure S1b

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Figure S2. Freundlich isotherm plot for Pb2+ (a), Cd2+ (b), removal

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Figure S3. Temkin isotherm plot for Pb2+ (a), Cd2+ (b), removal

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Figure S4. D-R isotherm plot for Pb2+ (a), Cd2+ (b), removal



Figure S5. Pseudo-first order kinetics plot for Pb2+ (a), Cd2+ (b), removal

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Figure S6. Intraparticle diffusion plot for Pb2+ (a), Cd2+ (b), removal

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Figure S7. Liquid film diffusion plot for Pb2+ (a), Cd2+ (b), removal



Figure S8. van’t Hoff plots