The EDX data for MPC Composite before and after addition of arsenate and SEM mapping of MPC/As(V) displayed in Fig (S1,S2). From the fig.S1a shows that MPC composite contains Fe, O and C elements. Further addition of arsenate into to MPC composite, the MPC composite having higher affinity towards the arsenate ions. Which results, provide evidence for elements Fe, O, C and As(V) presence in MPC/As(V) and results was displayed in Fig.S1b. Further SEM-Elements mapping analysis of MPC/As (V) was done to confirmed the presence of C, O, Fe and As(V) shown in fig.S2.

Fig.s1. EDX data of before and after addition of arsenate into the MPC Composite.
Fig.s2. The SEM mapping of each element present in MPC /As(V).