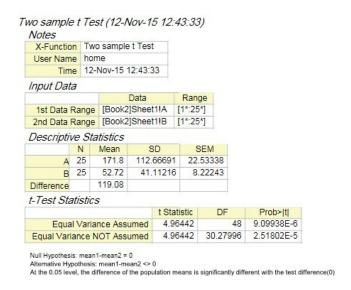
Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2015

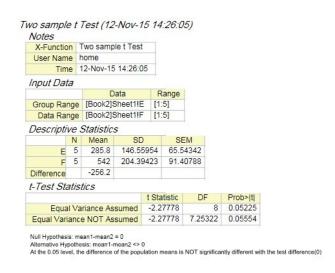
Supplementary Materials

Experiments	Elect	Electrolyte				
	Anolyte	Catholyte				
System I	0.5 M K ₂ SO ₄	0.5 M K ₂ SO ₄				
System II	Distilled	Distilled				
	water	water				

SM. Table 1 Experimental details during electrokinetic process



(a)



(b)

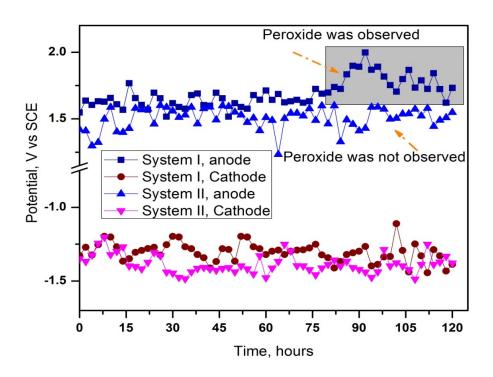
X-Function	-	Two sample t Test			-			
User Name	-	home						
Time	12	12-Nov-15 12:51:0)6				
nput Data								
		Data			Range	ĺ		
Group Range [Book2		[Book2]S	Sheet1!C		[1:5]			
Data Range		[Book2]Sheet1!D)	[1:5]			
Descriptive	S	tatistics						
	N	Mean	SD		SEM			
С	5	154.4	31.0129		13.86939			
D	5	291.6	94.06	54	42.06733			
ifference		-137.2						
Test Stati	isti	cs						
				t	Statistic		DF	Prob> t
Equal Variance Assumed				9	3.09744		8	0.01472
Equal Variance NOT Assumed				-	-3.09744		85944	0.02797

(c)

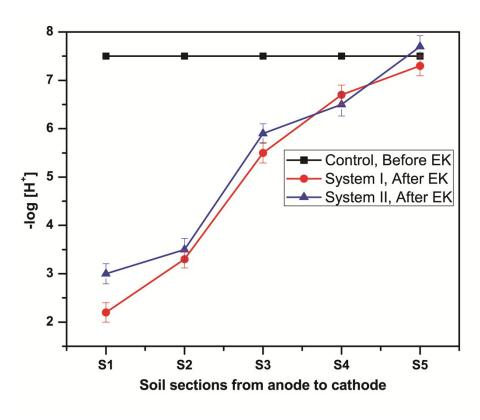
SM. Table 2 Student's T-Test analysis for various experiment (a) EOF, (b) chloride, (c) TOC

			After EK							
S.No	Trace metal,	Before	Soil section from anode to cathode					Soil section from anode to cathode		
	$(mg kg^{-1})$	EK	S1	S2	S3	S4	S5			
System I										
1	Nickel	0.23	0.01	0.07	0.16	0.13	0.20			
2	Chromium	0.25	0.09	0.092	0.024	0.087	0.17			
3	Copper	5.5	8.50	3.20	3.00	3.74	3.60			
System II										
1	Nickel	0.23	0.09	0.12	0.19	0.15	0.21			
2	Chromium	0.25	0.176	0.21	0.082	0.149	0.47			
3	Copper	5.5	4.94	4.02	3.38	3.96	3.97			

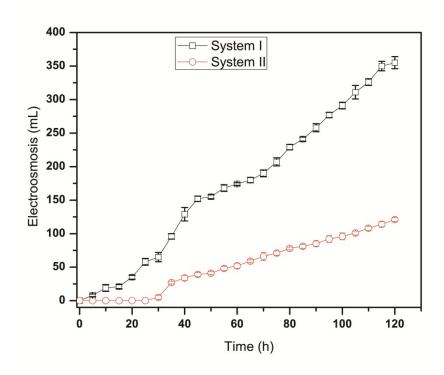
SM. Table 3 Trace metals concentration in different sections in contaminated soil before and after electrokinetic experiment.



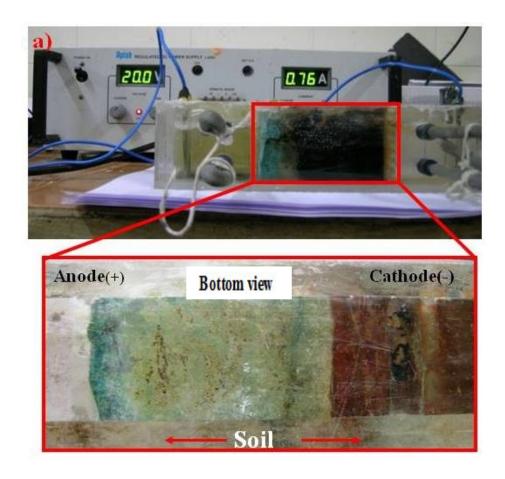
SM. Fig. 1 Measurement of potential during electrokinetic process



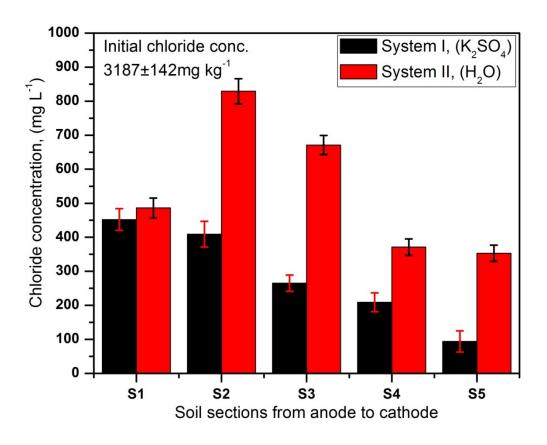
SM. Fig. 2 pH profile of the soil after completing electrokinetic system



SM. Fig. 3 Measurement of electroosmosis during electrokinetic experiment



SM. Fig. 4. The mobility of dyes in soil compartment during electrokinetic process



SM. Fig. 5 Mobility of chloride in contaminated soil before and after electrokinetic experiment.