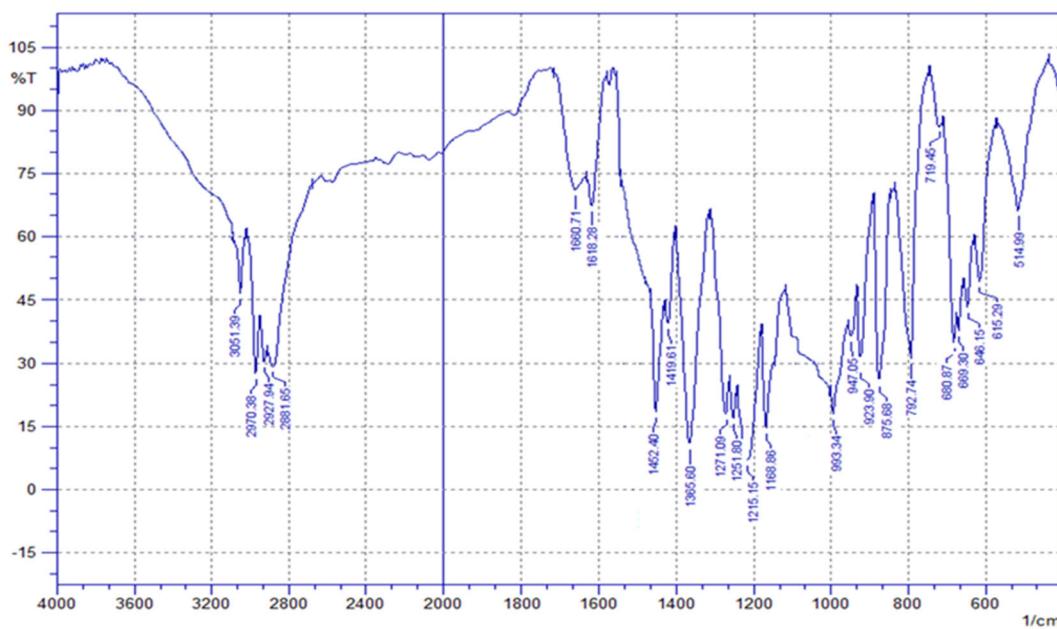
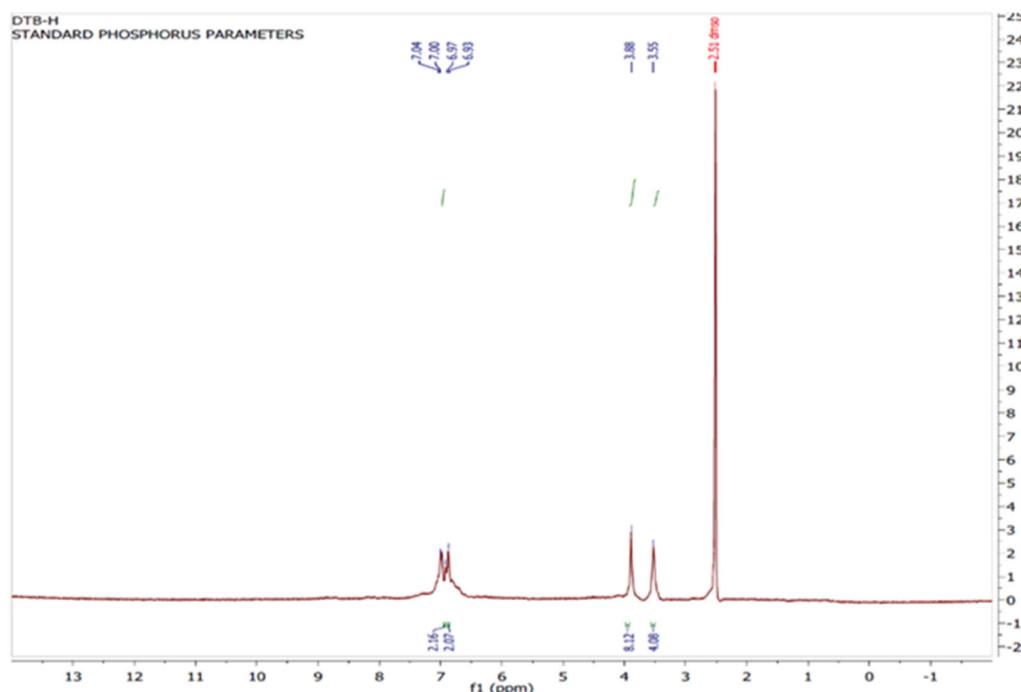


### Supplementary Data

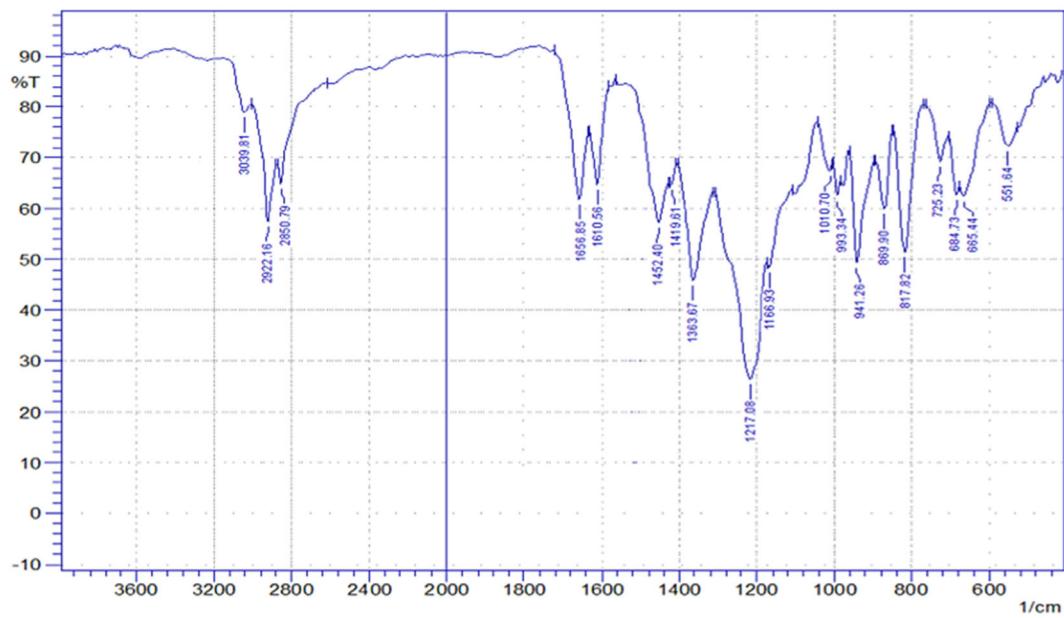
This supplementary data is a part of a paper entitled “Green Synthesis of New Heterocyclic Surfactant Compounds by Multicomponent Reactions and Their Antibacterial and Corrosion Inhibitor Study on Carbon Steel Alloy in Acid Media 2 M HCl”.



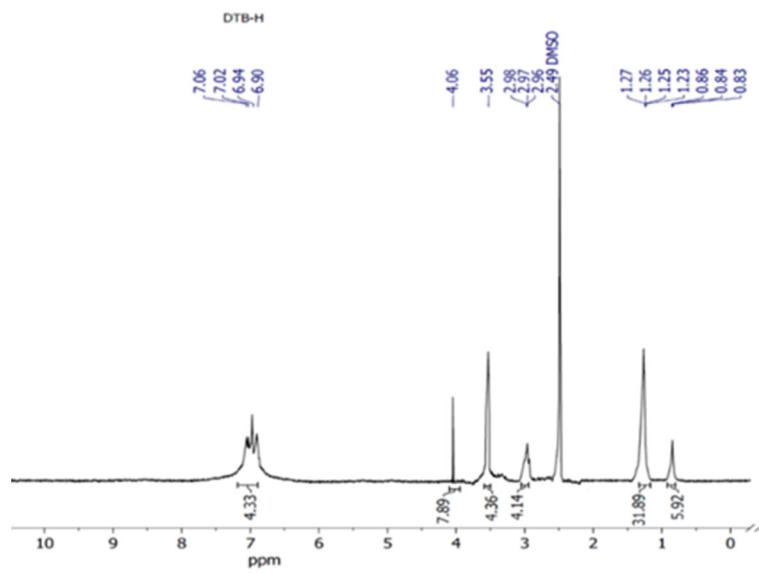
**Fig S1.** FTIR spectrum of the synthesized heterocyclic compound D



**Fig S2.** <sup>1</sup>H-NMR spectrum of the synthesized heterocyclic compound D



**Fig S3.** FTIR spectrum of the synthesized heterocyclic-Gemini surfactant E



**Fig S4.**  $^1\text{H}$ -NMR spectrum of the synthesized heterocyclic-Gemini surfactant E

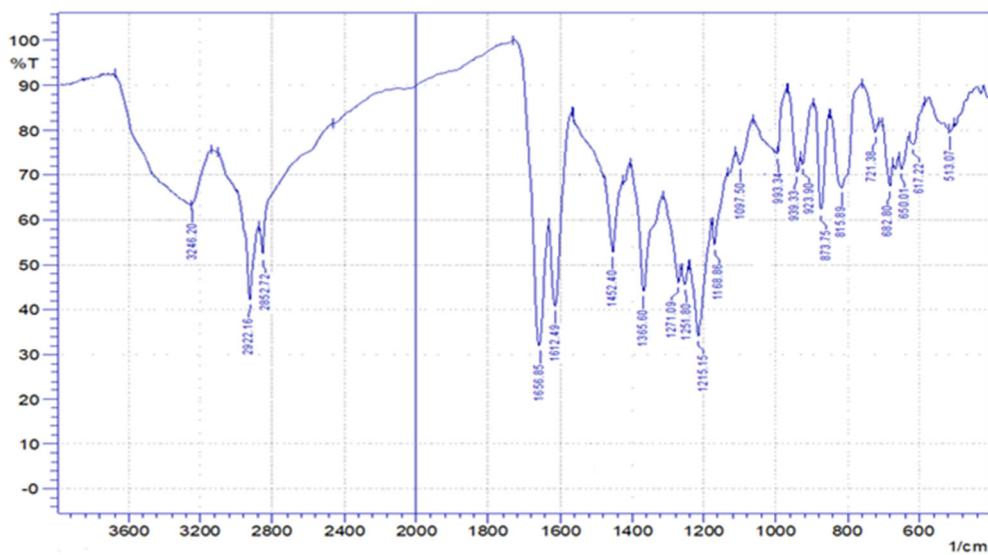


Fig S5. FTIR spectrum of the synthesized heterocyclic-Gemini surfactant F

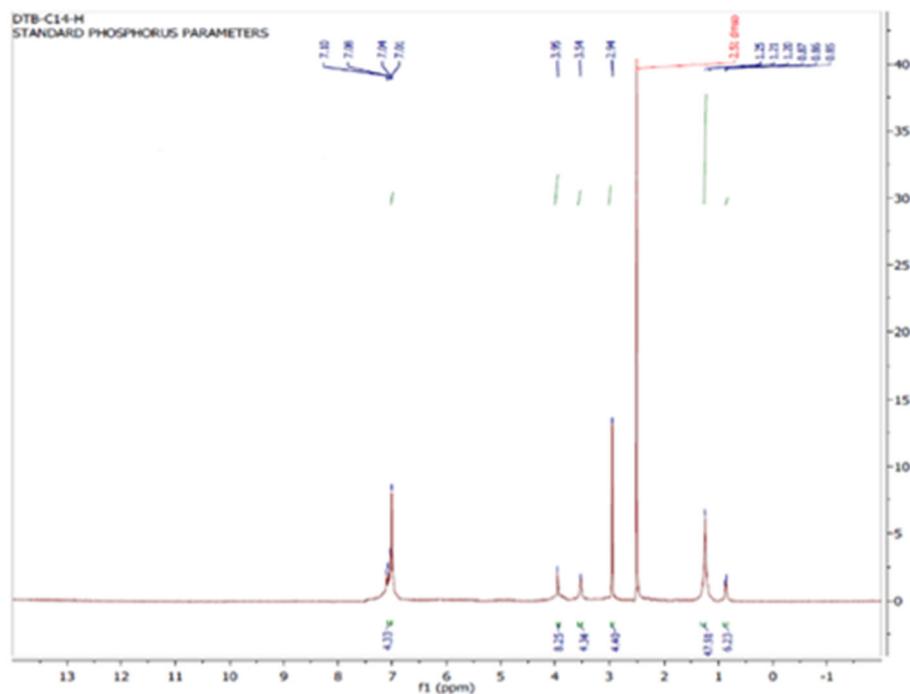


Fig S6.  $^1\text{H}$ -NMR spectrum of the synthesized heterocyclic-Gemini surfactant F