Electronic Supplementary Material (ESI) for RSC Advances.

Study on Intramolecular Charge Transfer Processes, Solvation Dynamics and Rotational Relaxation of Coumarin 490 in Reverse Micelles of Cationic Gemini Surfactant

Sonu, Amit K Tiwari, and Subit K Saha*

Department of Chemistry, Birla Institute of Technology & Science (BITS), Pilani,

Rajasthan 333 031, INDIA

Supplementary material

Gemini surfactant	^{1}H NMR (500 MHz, $CDCl_3$)
1,4-bis(dodecyl-N,N-dimethylammoniumbromide)butane (12-4-12)	δ 3.99 – 3.84 (m, 4H), 3.51 – 3.36 (m, 4H), 3.31 (s, 12H), 2.73 – 2.58 (m, 4H), 2.16 – 2.08 (m, 4H), 1.84 – 1.69 (m, 4H), 1.42 – 1.21 (m, 32H), 0.89 (t, J = 6.8 Hz, 6H).

Table S1. ^{1}H NMR data for the synthesized gemini surfactant (12-4-12).

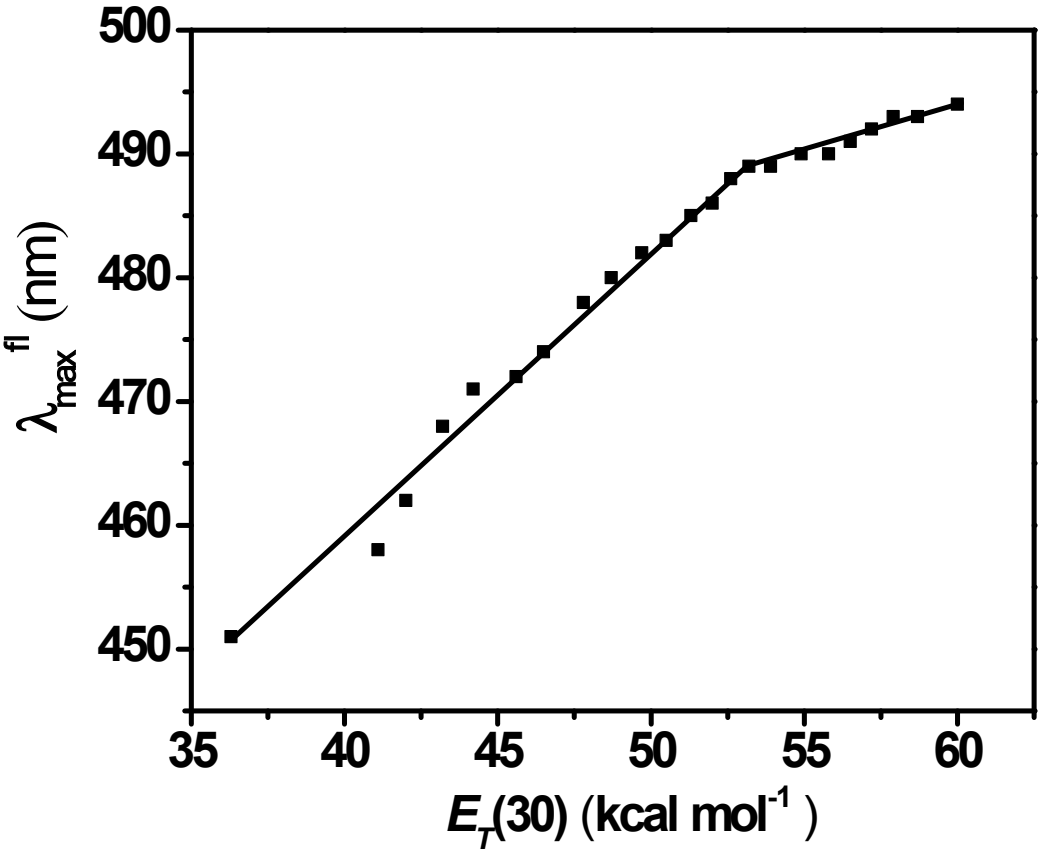

Figure S1. Plot of fluorescence peak maxima of C-490 in different percentage of dioxane-water mixture versus $E_T(30)$. λ_{exc} = 412 nm.