As chemicals, antibiotics and other aqua-inputs are widely used in fish farming practices to increase the fish production, the aquaculture may serve as a major reservoir of the antibiotic-resistant bacteria. The selective pressure exerted by the chemicals and antibiotics at sub-therapeutic levels may provide optimum condition for emergence of antimicrobial resistance bacteria. Moreover, the antimicrobial resistant determinants may pass over to the animals and humans through fish food chain and may pose potential health risk to them. On the occasion of “WORLD ANTIBIOTIC AWARENESS WEEK” 18-24th 2019, I appeal that our all scientific and technical staff should join hands against global antimicrobial resistance by creating awareness among fish farmers, fisheries officials, extension workers and other fish growers in order to change their behavior for prudent use of antibiotics, chemicals and aqua-inputs in aquaculture.