Annexure II

SUMMARY OF THE FINDING

Hydrogen fuel is green and clean fuel and it does not produce any harmful emission during combustion and generation of energy. As it is a potential future fuel its production through economically viable and environmentally acceptable methods. The cultivation of microalgae for bio hydrogen production requies high levels of biomass productivity per area and minimal costs. Here as per our results, Nanosystem of CdS/ZnS is considerable hydrogen yield. For the environmentally viable condition, a cyanobacterium coupled with semiconductor nanoparticles is strongly reduced toxicity when used combined photocatalyst nanoparticles hydrogen yield.