**Graphical Abstract.**

**Interesting Mechanistic Approach for Nitrogen Heterocycles of Industrial Importance.**

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**Abstract**

Nitrogen heterocycles have played an important role in different industrial sectors. Porphyrins, the macrocylic compounds containing pyrrole rings provide an extremely versatile platform with desired peripheral functionality and metal complexes to form the self assembly under varying reaction conditions.Mechanistically interesting N-heterocycles, Arylidene-1,3-indandione adducts (6 ) and (7) synthesized frequently are of immense pharmaceutical importance showing fungicidal and bactericidal activities. Nitrogen heteroatom phthalimide derivatives (8),(9) and (10) have been evaluated as possible potential prodrugs.



