

CERTIFICATE

It is certified that the work contained in the thesis titled “**Photocatalytic degradation of dye (Direct Blue 199) from carpet industry waste water using synthesized anion and cation doped TiO₂ photocatalysts**” by **Sudhakar Saroj** has been carried under my supervision and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

Satya Vir Singh

Supervisor