



CZECH TECHNICAL UNIVERSITY IN PRAGUE

FACULTY OF MECHANICAL ENGINEERING

Department of Process Engineering

SUPERVISOR EVALUATION

Diploma thesis

Thesis title: **CFD SIMULATION OF THE AGITATED BATCH**
Author: **Bc. Sharafani Alend Taher**
Supervisor: **Skočilas Jan, Ing., Ph.D.**
Reviewer: **Ing. Bohuš Kysela, Ph.D.**

Author elaborated diploma thesis within range of 58 pages, containing 33 figures, 6 tables. 12 literature sources were used for literature search.

The thesis deals with CFD analysis of the agitated batch system by four pitched blade impeller for given geometry. For process simulation the LES approach was used.

The student's approach was average with adequate employment. He worked under detailed leadership. The most time consuming part was computation of the model by LES approach.

The benefit of this work is methodology to create the model of agitated system and to working process of solver to use LES approach.

Author acquired new practical experiences in CFD and knowledge in the field in fluid mixing in agitated vessel.

Alend fulfilled all aims of the submission. I evaluated him by grade

C (good)

In Prague, 14. 8. 2015

Ing. Jan Skočilas, Ph.D.