

**Supervisor's recommendation on PhD thesis of Abdul Jabbar M.Sc.**

Date: 07.02.2017

Thesis title: Characterization of mechanical and thermomechanical behavior of sustainable composite materials based on jute

The PhD thesis titled "Characterization of mechanical and thermomechanical behavior of sustainable composite materials based on jute" is quite comprehensive and fulfills the objectives outlined in his thesis. The thesis is written according to required format, I believe and the objectives of the thesis are clear. The candidate has done all his work quite systematically with specific objectives, organized and analyzed data scientifically and discussion of the results is logical with citations of previous work where necessary. The quality of figures and tables is good and understandable. The language level of the thesis is good and meets the PhD level.

His publication activities show that he is a outstanding researcher. During his research work in TUL on the PhD theme, he has published 5 papers in high ranked impact factor journals, 2 book chapters and 3 articles in conference proceedings. Apart that, from 2013 to present, he is the author/co-author of total 20 impact factor journal articles.

The extraction of cellulose fibrils from jute waste is economical and surface treatment methods explored in this thesis are environment friendly. The conclusions of the thesis are interesting, novel and ready to used in practice. I therefore recommend the thesis for final defense.

  
Prof. Ing. Jiří Militký, CSc. EURING

Supervisor