

RESEARCH ARTICLE :

Characterization of nano-gypsum through nanotechnological approach

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ARTICLE CHRONICLE :

Received :

22.07.2017;

Accepted :

11.08.2017

SUMMARY : Nanotechnology deals with small particles with the dimension of 1-100 nm (one billionth of a metre). These particles have high surface mass ratio and are capable of improving the agricultural inputs including gypsum. A study on characterization of Nano-gypsum through nanotech equipments was conducted. The Nano-gypsum was characterized with SEM, XRD, FTIR and raman Spectrometer. It was conformed that the nano-clay has attached with gypsum. After loading of gypsum on Nano-clay, the surface morphology of nano-gypsum was transformed to clustered in shape and the XRD patterns, Raman spectra and FTIR of the Nano-gypsum was changed in the peak angles. This study was conformed that the nano- clay has loaded with nano- gypsum.

How to cite this article : Kumar, M. Santhosh and Thiyageshwari, S. (2017). Characterization of nano-gypsum through nanotechnological approach. *Agric. Update*, 12 (TECHSEAR-9) : 2535-2539.

KEY WORDS:

SEM, XRD, FTIR,
Raman spectram

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