

A review of non-invasive imaging: The opportunity of magnetic induction tomography modality in agarwood industry

Abstract

The needs for non-invasive technique in agarwood industry could enhance and preserve the future of this industry in Malaysia as well as in most of the Asia countries. Normally karas tree which produces agarwood needs at least more than ten years to yield a matured agarwood resin. Thus cutting down the immature trees without pre-assessment on the agarwood content would become a waste of resources. This paper discusses the NDE techniques in wood industry which has the potential to be applied in karas tree for pre-assessment of agarwood volume embedded inside the trees. Finally future research in agarwood imaging using Magnetic Induction Tomography modality is addressed.

Keywords; Agarwood; Magnetic induction tomography; NDE; Pre-assessment