

# “Composite of Corn Starch Grafted Guar Gum with Chitosan using Persulphate, Ascorbic Acid Redox Pair: Synthesis and Characterization”

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**Abstract**—A composite of guar gum along with corn starch was prepared using condensation polymerization method. In this method a redox pair of potassium persulphate with ascorbic acid was used to initiate the reaction. Corn starch grafted guar gum was obtained and its derivatisation was done by using chitosan. The surface morphology, atomic%, weight% and other elemental analysis of newly formed composite was studied using SEM pictures, IR, NMR and EDX.

**Keywords:** Composite, guar gum, corn starch, polymerization.