



## Synthesis and Characterization of Naga (Lead) Bhasma

Shailesh Kantak and N.S. Rajurkar\*

\*Department of Chemistry, Savitribai Phule Pune University, Pune-411 007, **INDIA**

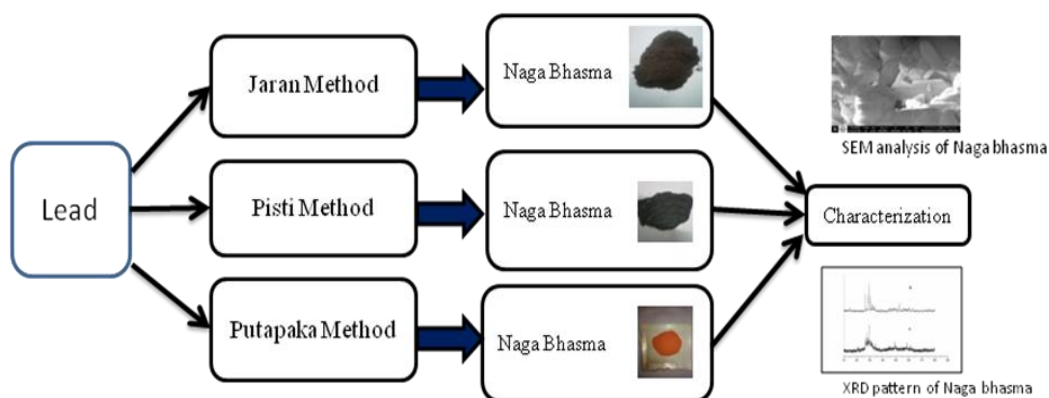
Email: [rajurkar@unipune.ac.in](mailto:rajurkar@unipune.ac.in)

Accepted on 9<sup>th</sup> March 2017, Published online on 27<sup>th</sup> March 2017

### ABSTRACT

The present study deals with the synthesis and characterization of Naga (lead) Bhasma. It was prepared by three methods viz. Jaran method, pisti (amalgam) method and putapaka (herbal media) method. The analysis of prepared bhasma was done by classical ayurvedic tests as well as modern analytical techniques such as EDAX, SEM, XRD and FTIR. The study reveals that Naga bhasma is a mixture of compounds of lead:  $PbS$ ,  $PbS_2$ ,  $PbO$ ,  $Pb_2O_3$  and  $Pb_3O_4$ . Elemental analysis confirms presence of Al, Ca, Fe, Si along with carbon which suggests that bhasma is a herbo-mineral compound.

### Graphical Abstract



**Keywords:** Naga bhasma, Elemental analysis, Characterization, Lead.