

Lamproites and Kimberlites in India

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Abstract: New petrographic and mineral chemistry data are presented to show that the Majhgawan and Hinota pipes are olivine lamproite lapilli tuffs and not kimberlites as suggested elsewhere. These bodies, therefore, comprise a newly recognized province of diamondiferous olivine lamproites. Other intrusions in India have been proposed in the literature as being lamproites or kimberlites. Available information for these localities is discussed and, where possible, augmented by new data (Wajrakarur/Lattavaram, Angor, Jungel, Chelima). The Wajrakarur/Lattavaram bodies are classified here as kimberlites. Although two of these bodies appear to be extreme varieties they do not represent a different rock type and are not lamproites. The Chelima and Gondwana coalfields dyke swarms could include lamproites. There are no data to support suggestions of other lamproites or kimberlites in India. This study highlights the need for further detailed petrological investigations of many of these localities.

Keywords: Lamproite, Kimberlite, Diamond, Lamprophyre, Minette, Majhgawan, Wajrakarur, Lattavaram, India.