

# **Regional Analysis of the Precambrian Aravalli Phosphorite of India.**

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Phosphorite occurs at a number of localities, within the Aravalli Supergroup of Rajasthan, India. The phosphorite occurring in the vicinity of Udaipur represents the central part, whereas, those of Sallopat and Gandhra represent southernmost part of the Aravalli belt. Certain striking features have been noted in the Aravalli phosphorite. Firstly, it occurs in a sequence of more or less similar set of strata at all the localities. Secondly, the phosphorite is confined to more or less lower section of the sequence. Thirdly, phosphorite is exclusively associated with the stromatolites. From the similarity of sequence of strata and mode of occurrence of phosphorite in the different portions of Aravalli belt, two aspects of Aravalli sedimentation have emerged. The similar sequence of strata occurring at different localities of phosphorite suggests that they belong to the same stratigraphic horizon of the Aravalli rocks. Accordingly, there have been repetitive events of similar sedimentation in course of filling of the Aravalli basin. As such phosphorite has formed at different time. Lithostratigraphic evaluation of the Aravalli phosphorite of the different localities was made. It is suggested that phosphorite actually occurs at different stratigraphic horizons of the Aravalli Supergroup. It is therefore envisaged that, the Aravalli phosphorite is a product of cyclic sedimentation taking place under shallow shelf environment.