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Plate 2.1: (a & b) Tars and dome structures on Delhi quartzites and weathered surface (b). (c) Typical vertical profile of the sediments, characteristic of loesses, on the Delhi ridge in J. N. U. Campus. (d) Sand and clay deposit on the Delhi ridge in Mohabtabad area, near the Delhi-Haryana border.

Plate 2.2: (a) Weathering profile on the quartzite showing unweathered, white and red zones. (b) Recently opened quartzite showing pyrite dissolution and formation of ferric hydroxide to form goethite minerals. (c) China clay (kaolinite) deposit and (d) Silica sand in altered pegmatite and adjacent quartzite.

Plate 4.1: (a, b, & D) Intergranular mosaic of non undulose quartz grains showing granoblastic polygonal texture in Delhi quartzites and (c) shows undulose quartzs in the Sohna area quartzite (magnifications 10X for all).

Plate 5.1: SEM photograph showing goethite mineralisation along the grain boundaries indicating ferrous-ferric systematics of weathering of quartzites.