

**SECTION 144 – CALICHE AND HAVARA**

3103. The terms “caliche” and “havara” are both used to denote soft limestone deposits containing varying percentages of clay and silt. Many of these have the property of re-cementation when saturated, compacted and allowed to set. As the degree of cementation varies with the proportions of the constituents, only material of uniform quality should be used.



Figure 31-1: Caliche



Figure 31-2: Havara

3104. For base construction the liquid limit of fines should not exceed 35, nor plasticity index 10, after slaking for 72 hours.

The recommended grading, after crushing, is:

Passing 2-in sieve .....	100%
Passing No 36 sieve.....	15-35%
Passing No 200 sieve.....	0-10%

3105. Surface dressing is often impracticable. A bituminous carpet is usually satisfactory.