

PROVINCIAL JOURNAL.

(July articles deferred in our last Number.)

Lunar Eclipse.—On the 23rd July, the Moon was observed from this place to be totally eclipsed, and it may be said, that, on very few occasions, has the appearance and progress of an Eclipse been so distinctly visible. The Moon touched the Earth's shadow, or began to be eclipsed on her eastern limb at ten minutes before nine, and continued to pass through the shade in the most beautiful manner imaginable till about ten o'clock, when she became totally eclipsed. In this state she continued till about eleven, presenting a dusky colour, like tarnished copper. At that hour she began to emerge from the shadow, and gradually continued to develop herself in her natural appearance till about twelve, when she assumed her usual splendour. Though totally eclipsed she was not invisible at any one period. The true cause of her being thus visible, is known to be the scattered beams of the Sun bent into the Earth's shadow by going through the atmosphere; which, being more or less dense near the Earth than at considerable heights above it, refracts or bends the Sun's rays more inward, the nearer they are passing by the Earth's surface, than those rays which go through higher parts of the atmosphere, where it is less dense according to its height, until it be so thin or rare as to lose its refractive power.

Pot and Pearl Ashes.—These are articles of our northern manufactures, the source of very considerable profit and advantage to our commerce, whether our ashes find their way out of the ports of the United States or through Lower Canada. Every thing connected with the manufacture and sale of these articles should meet with prompt attention. In one of the late numbers of Tilloch's Philosophical Magazine, the following discovery is announced:—"I observed," says he, "many years ago, that I expected to see the powers of galvanism in one shape or other, a necessary appendage to the apparatus of every bleach field. Subsequently, I stated that I considered all alkalies, alkaline earths and substances, mere modifications of the same base, and that one day I hoped to see our pot ash taken from the *lime rock* of our own soil, instead of deflagrating the woods of America. After many a varied experiment, I have completely succeeded, and have now rendered myself and my country, so far as regards bleaching, perfectly independent of every foreign aid, and at an expense comparatively trifling." If the *lime rock*, properly prepared, has been found to answer for bleaching, it will make a material alteration in the sale of our pot and pearl ashes, and the subject requires a most immediate attention.

Emigration.—A few weeks ago a New-York paper announced the arrival of a number of British settlers at that port. We feel the truest satisfaction that our countrymen are so kindly appreciated—that their enterprize promises success: and while we disclaim every national jealousy,—we cannot but turn our eyes to the country around us, and ask, why a Province of Britain, adapted by nature for