J: Bonnycatte 1750-1811

ELEMENTS

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MINERALOGY.

ΒY

RICHARD KIRWAN, Efg. F.R.S. & M.R.I.A. OF THE ACADEMIES OF STOCKHOLM, UPSAL, BERLIN, MANCHESTER, PHILADELPHIA, &C.

SECOND EDITION,

WITH

CONSIDERABLE IMPROVEMENTS AND ADDITIONS.

VOL. I.

EARTHS AND STONES.

LONDON:

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M DCC XCIV.

Jargen Genus.

SEVENTH GENUS.

Jargon. Zircon of the Germans.

THE only species, of this genus hitherto known, is the stone called Jargon of Ceylon, or Zircon, which exhibits the following characters *:

Its colour is grey, or greenish white, mountain or olive green, inclining more or less to yel low, yellowish brown, reddish brown +, and violet.

It is found either in fmall irregular grains, or cryftallized. The cryftallization prefents either right-angled quadrangular prifms furmounted with pyramids; or octohædrals, confifting of double quadrangular pyramids; the furface fomewhat fmooth and polifhed.

The external luftre is casual, but the internal is ftrong and inclining to the metallic.

The fracture is intermediate between the thin curved foliated, and the flat conchoidal, and fome small-grained distinct concretions.

The fragments, indeterminate and very fharp. Strongly femitransparent. Sometimes Opake. Brisson 73.

Its hardness from 10 to 16. Its sp. gravity according to Brisson, 4,416. And according to

Mr.

^{* 4} Lempe Magaz. p. 99. 2 Betl. Beob. p. 147. + Briffon p. 73.

334

Mr. Klaproth, 4,615. According to Werner, 4,7. 2 Bergm. Journ. 1790, 90.

Heated to redness, and quenched in water, it becomes rifty, and troubled.

• According to Mr. Geyer, it is scarcely fufible, even by the help of pure air.

It is infoluble in acids, except by particular management.

By the analyfis of Mr. Klaproth *, 100 parts of it contain, 31,5 filex, 5 of ferruginous nickel, and 68 of a new earth.

EIGHTH GENUS.

Sydneia.

OF this no fpecies has as yet been found; nor has it been detected in any other stone.

* Briffon, p. 73.



NINTH