

introduced ; and this ancient reproach has been withdrawn. It was formerly principally used for bagging, bale, rope, twine, &c., but is now coming into extensive employment for naval purposes. It will now stand a comparison with Russian. The fibre should be fine in quality, and uniform in texture, and with this view it is better sown broadcast, though it is more conveniently cultivated in rows, as certain processes of cultivation require the workmen to go amongst the crop while growing. But to procure a fine fibre the plants require to be set close together. The seeds are of a flattened obsecular shape, greyish-brown in colour, of a fresh appearance, somewhat oily lustre, and feels light in the hand. You may prove the seeds by rubbing them between the palms, and if they suffer such treatment without breaking, and become brighter, they are of a good quality. The ground requires to be watched after sowing, and until the plants are in leaf, to keep off the birds, which are most destructive. Though sown broadcast, if the crop be luxuriant, the weeds are speedily overborne and smothered. Hemp *Cannabis Sativa*, belongs to the class and order *Diœcia Pentandria* of Linnœus, which have the male and female flowers on different plants ; and, on this account, it is unknown, when Hemp seed is sown, whether the plants produced will be male or female. It is of the order *Urticeæ*, of the natural system of Jesseu, and is closely allied to the common nettle. It is a native of the cooler parts of India, and is there cultivated, not for its fibre, but for its intoxicating properties, which are believed to be owing to the presence of a resin, which is not found in Europe. This resin exudes from the leaves, slender branches and flowers ; and when collected into masses, is the *Churras* or Cherris of Nepaul. Its odour is fragrant and narcotic, its taste slightly warm, bitterish, and acrid. The oil from the seeds is used in the lamp, and in coarse painting. And it is in some localities formed into a paste, and given to hogs and horses to fatten them. It enters into the composition of black soap, used in the manufacture of stuffs and felts, and is also used for tanning nets.

The composition of Hemp seed is as follows :—

(BUCHOLZ.)

Oil,	19.1
Husk, &c.,	38.3
Woody fibre and straw,.....	5.0
Sugar, &c.,.....	1.6
Mucilage,.....	9.0
Soluble Albumen (Casein ?).....	24.7
Fatty matter,.....	1.6
Loss,	0.7
	10.000

The composition of the ash of the Hemp seed is as follows :—

(JOHNSTON.)

Potash,.....	21.67
Soda,	0.66
Lime,.....	26.63
Magnesia,.....	1.00
Oxide of Iron,.....	0.77