(37)

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SOME DEBANCS ON THE SOIL AND CULTIVATION ON THE VECTORS SIDE OF THE RIVER ECOCHLY: AD 1791

#### HOUSE

## Manufactures:

(a) These distinctions (of which they are not only tennoious but conceited to excess, in the supposed superiority over the rest of mankind) are diminishing within the Company's provinces. That from their unprincipled conduct when engaged in the service of Turopeans, as from the evils entailed by the secondotal influence in corrupting the morals of the other orders of the community, unveiled principally in our courts of justice from the general litigous disposition presenting pervading all orders of the native community.

The natives comprised in this tract principally composed of cultivators of the soil, fishermen, or mechanics such as smiths, carpenters, beat-builders, potters and weavers; of the last about 25 feadlies residing in beibpoor, and about thrice this number in the extent of the margin of this district bathed by the river Houshley. (ff 75v)

The species of cloth menufactured principally confined to that in use amongst the lower orders, known under the following mames soarie and jore. But in the village of Balleah Adumpore between 3 and 400 looms are said to be employed in the manufacture of the following species of cloth vis: Eurrah-than, Romaul, Dismiss, Cassaberie, Meinsoe and Chullabund.

Their process in spinning, waving and finally dressing their cetton manufactures, with the implements in use would require to be detailed (in the best manner) by an adopt in the branch.

The striking simplicity characteristic of all their mechanic processes to a common observer appears to run through the whole, united to an uncommon degree of passive apathy patient and unremitting industry in the native.

Generate and Plaister: They have long been in possession of a glue formed with the guamy part of wheat mixed with line, a preparation more impervious to moisture than the glues in cormon use. For is the preparation in use in Barbary (mentioned by Dr Shaw) composed of the ourd of milk united with line unknown.

They further possess two kinds of mortar probably peculiar to themselves, if not from time immemorial - viz: a cement composed of pounded bricks and lime mixed with water containing a considerable quantity of coarse (ff 76r) sugar: this last ingredient preducing nearly the effect attributed to Possalnai or Terrace, causing the mortar to set quickly; and in a short time acquiring a great degree of hardness. The proportion of ingredients composing this mortar differs in relation to the degree of causticity of the lime employed. If long elacked two measures of brick-dust to one of lime and more sugar being added to mortar.

Another ingredient used in the composition employed in forming the flat terraced roofs of houses, obtained from sceping a species of grain (of the vetch kind termed metter-assue (?) by the aborigines) in water. The period for obtaining the proper state of the decomposition of this ingredient and drawing off the water, on its attaining a viscous quality joined to a very offensive smell; but the particular effect of this last ingredient not so obvious as that apparently produced from the acid of sugar used in the other process. In extract by fire of the fruit of the durritukah (understood to be the Mirabolans?) applied to the same purpose.

TOR: Mar F 95/I: by Sol Robert Ryd (sont to W. Jones)

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fisherman is cometimes seen emoking the booksh held by the right hand, the best continuing its conrec by this temporary substitute. In other situations the ear is grapsed by both hands performing the office of a fulorum whilst the extremity is plied by the opposite foot. On common occasions the par or paddle is only plied with both hands. (ff 78r)

That they possess elementry treatises in chemistry, medicine, greener, logic, othics and theology, and in the latter sciences perhaps as deep as any of our ancient and nodern writers, may be inferred from the enumeration in the following extract from the AyyeenAkbarry Vol 3rd page 95:

The Sciences of the Hindoos: "The Hindoos have upwards of three hundred arts and sciences. The author of this work have accociated himself intimately with the learned non among them, has heard and comprehended the various doctrines of each sect and profession. It is impossible in a single volume to give a particular relation of such a variety of subjects but for the satisfaction of those who are uninformed I shall sketch out the rudiments of each art and ocience, without offering any argument for or against them. This in useful to some future ingenious investigator who wishes to compare their doctrines with those of Flato and and commentators in the sacred text. the

(page 167):

"In the extensive empire of Eindostan there are so many arts that they connot be described. Senething however should be said of them which may on acceptable present to the curious enquiror and perhaps excite his further curiority."

(E) Busios

Flute: something approaching melody, but an insipid, languid, monotonous taste is attempted on a flutabeck made in a rude and arthogo manner from the joint of a bamboo pierced with holes by a bot iron. This instrument in use amongst only a few of the lowest orders.

Hautboys used in the marriage and religious processions. Something like a wild kind of recitation, in a very harsh tone (doubtful if subjected to regular measure)

Of their vocal music; such songs as appear to approach to our melody, it may be doubted whether they are not borrowed from the upper country, of which the two following will convey some idea. The first an invocation of the Deity:

> (Burry Kistnel Burry Fistnel Fistne Wistne Burry Burry: Burry Ran Burry Rom Rom Rom Burry Burry)

The second some verses comprising a dialogue between a monkey and a bears

(ff 78b.r)

An air performed on the Sinoy (a species of the Bautboy) in their wedding processions : of this only on imperfect idea can be formed requiring a more minute exemination than will repay the trouble in the opinion of most modern sucicions.

# Printings

Unknown altho modern stamps inscribed with magical characters, or from their hely writings recurred to on the occasion of consecrating and impressing their bodies with different colours on the particular festivals already adverted to.

## Cotton Menufacture:

The finest cetten thread spun with a spindle but by a different process than practiced with the distaff in Surope. Let the finest cettens are plucked from the seed with the fingers only, afterwards passed under action of a slender bow string for the purpose of arranging the fibres; it is then spread out and by means of a cylindrical stick formed into a hollow cone from which the fibres wind off by the mere extension of the hand holding the cone, the thread being twisted by the motion of the spindle impressed with the other hand, the lower end resting on a shell (?); the size of the thread conforming to the quantity (ff 79v) primarily selected from the cone forming the specimen int — the previous arrangement of the fibres and form of the — allowing the cotton to wind off of itself conformably to the first impression given. — The spindle a bit of iron — a feet long the size of a knitting needle, to which momentum is given by a small compressed ball of clay surrounding the lower part.

Course cotton separated from the seed by two cylinders turning different wags and spun with the wheel as precised in Europe.

# Frice of Labours

In the country from 2 to 2 Rupees. At the Presidency 3 Rupees per month. The rupees two shillings sterling, which makes about 2d to 2 d per day.

#### Cookerys

In their cookery they possess a process for rendering fresh meat tender, apparently unknown to the professors of this art in the western world.however reknowned, namely by steeping or stewing it in sour milk for some hours or mecerating it in the juice of ginger; this without imparting any of the flavour of the articles produces the same effect in a mere complete manner, than probably the slaver and more insalubrious process of spontaneous putrefaction recurred to in Europe.

The bones of fish softened in the same manner so as to be eaten without any ill effect. (if 80r)

# Waxe

Obtained in considerable quantities from the mountainous east and test frontiere, as well as from the overflowed intermediate tract termed funderbunds.

In Calcutta it is manufactured into candles and sold at from 45 to 60 Rupees per maund.

The bee furnishing this wax is of a far more diminutive size and more inoffensive in its sting than that in Europe; the honey of an insipid quality.

## Soaps.

Of a coarse quality, prepared from a mixture of oil tallow and Sejemetty (supposed to be Natrum).

The fine cotton muslin purified and oleaned by steam. Coarser cloths and body lines with a lixivium obtained from the ashes of the plantain, and other vegetable matters.

Formed from the Indian flat of various degrees of fineness. One species of paper used for records (independent of inscribed copper tablets) tinged yellow with orpiment to preserve it from insects.

## Gugart

The juice of the sugar came obtained by a simple machine worked by hand on the principle of the cylinder used in the West Indian islands. The juice granulated into coarse sugar, chrystalized into sugar candy, or refined into loaf sugar. This last process not in common use.

### Leathors

The preparation of this article however necessary and in universal use, held in abhorence by the aborigines and only practiced by the unfortunate lower orders reprobated by their (ff 80v) singular dogma whose hopeless and degraded state has apparently entailed an equivalent dissolution of manners from being subjected to the performance of the vilest offices incident to humanity and being excluded from society of reduced to the necessity of feeding on carrien to support their wretched existence.

lime, Surtooka (?) and Allum or a dedoction of the tamarind are the principal ingredients employed in preparing the leather for use and dying.

An infusion of the fruit of Hurtocka (7) (supposed the Mirabolums employed in staining it black.

Red dyes An infusion of redwood or of a species of stick lac deposited on the branches of the Pepul and Bohr trees by a particular insect.

Tellows From a dedection of the Jujsocah (?) (this tree not aspertained) and Burril bark.

Greens From a solution of the Lajaorah bark united with filings of copper and borex.

Various other substitutes are recurred to according to the means and abilities pessessed such as the cousen lac and Quel root, the particulars of which the natives do not readily communicate.

## Inka

For common Bengal Writing is formed of rice blocknys. One Chuttuck in weight infused in 6 Chuttucks of water for 8 or 10 hours. This is also semetimes ground with lamp-black obtained by burning, common oil under an earthen pet until it attains the requisite consistence. For Persian Writing a solution of shell lac and borax is mixt with lamp-black. (ff 81r)

#### (3)

# Medicine, Surgery, Chymistry:

Inoculation long in use. All Chirurgical operations held generally in abhorrence and only practiced amongst the aborigines by the inferior orders; inoculation excepted by the Brahmins. Its origin probably lucrative in the practice.

Chirurgery (in which they are considered by us the least advanced) they often succeed, in removing ulcero and cutabeous immutions of the worst kind, which have befiled the skill of our surgeens, by the process of inducing inflamation and by means directly opposite to ours, and which they have probably long been in possession of.

7

In the preparation of Sinnabar, Minium, Corresive Sublimate, Vitriol, Sul Amenias, Saltpetre, refining the precious metala; smelting and refining iron, lead, copper, tin and Tulerage (?) (with the various combinations of the last three) preparation of steel of a very high temper, well versed. The manufacture of steel fallen into disuse from the introduction of Suropean steel sold at a cheaper rate. Polishing and engraving precious stones. In the process of dying, extracting the precious essential cils for perfumes. Extracting sugar from the came. Rearing the silk-worm probably from the remotest antiquity. On the process of refining gold and silver, see the appendix.

Alchymy in its application to the transmitation of metals still in vogue amongst the aborigines, and attended with the same impositions practiced in the ms western world amongst its deluded votaries and by no means by the innocent and harmless process remarked by W.D. Pauw (7).

Class not used in their windows and in the upper previnces
where the difference of climate it might scener call for
its advantages - the first more natural substitutes Tale (?)
and transparent shells little if at all recurred to, althousened
convex coloured glasses are found in the construction of the
het baths, in use only amongst the Mahemedans throughout Hindostan.

#### Gil:

Independent of the articles specified in the preceding remarks, oil is extracted from the fellowing vegetables, principally used in medicine and for burning.

ist: From the seed of the Phall Orinchah used in medicine but not cultivated (from 1 to 2 seers per Rupee).

2nd: Opium seed. One meund affording at the rate of 12 seers.

price 7 seers per Rupee. (ff Slv)

3rd: Tobacco seed. One maund affording Seers at 7 seers per Re.

4th: Raddish seed: One meand affording 7 seers at 8 seers per Re.

The preceding articles already adverted to afford oil in the following quantities:

Meernee	1 Maund	affords	11	Secre
Teel	1 "		11	#
Chab (?)	1 "		10	n
Surcoony	1 "	H	12	*
Rye	1 "		14	7.
Good That	1 "		10	

The oil expressed in a mill of a peculiar construction worked by a bullock, capable of expressing about one mound of seed or 10 seems of oil per day of 12 hours and the relief of two additional bullocks.

The seed undergoes no previous preparation by heating or pounding, being only moistened with a little cold water, the machine uniting the powers of pounding and pressing.

Eighteen mills employed in Scobpore by eight families. (see annaxed drawing of the mill)

The composition of glass not practiced, whether known throspertained, altho they gamest convert our glass into weak and ill-proportioned phials.

altho at the period of the completion of the Ayeen Abbary, gilded glasses are noted as the manufacture of the Behar province the same record asserts that the mountains of Berai (?) produce all the requisites for making glass and cosp.

a few lines of quotation in French from author montioned.

## Tobbacco: @

Probably cultivated from a far more remote period than the introduction of the use of it into Europe; if not known in the western world before the discovery of America; inferible from its very general cultivation and use throughout India, althout is to be observed that it is still rejected by the rigid abarigines as reprobated by their dogma or antient prescription. By enquiries respecting its first introduction and use have proved altogether unsatisfactory. (If 82r)

## Corn Milles

Their corn ground by hand mills of the simplest construction; the cheapness of labour and horizontal surface of the country probably accounting for their not recurring to more complicated machinery; water mills being used in the north east (?) mountainous frontier of Serinagur, and the Windmill, altho lately introduced by Europeans at the Presidency not likely to be recurred to by the natives from the extence of the mechinery.

(in margin) (The corn either trodden out with exen, by besting of the care of the cheaf, against the edge of an inclined board; and freed from the back in a wooden cylindrical morter under a heavy stamper (?) moved by the foot.)

# Purification of Waters

The impurities contained in the river and pond water are precipitated by the opulent natives by a solution of allum or rubbing the interior surface of the containing vessel with the nut termed Neermoney (?) (the plant producing this mut not ascertained) obtained from the western frontier.

The water is cooled in an unbaked earthen vessel composed of black clay and coarse sand of a texture sufficiently perous to allow the water to exude and moisten the exterior surface, which exciting a constant evaporation, particularly when exposed to a draught of air in the shade, cool the water sufficiently for common use; the luxurious recur to the use of saltpetre (the discovery of this process attributed to the Emperor Akbart vide Ayeen Akbarry); SaleAmeniac altho manufactured in the upper provinces and capable of producing the same effect in a greater degree not having been recurred to by the natives probably from their abhorrence of the excremental ingredients from which it is formed.

/enclosed

Their sherbets congealed from a mixure of ice (collected in the cold season) sea-salt and sulphur. The liquid to be congealed/ in very thin earthen vessels: these last put into a cast iron pot lined with a coarse woolsn blanket; the ice, saltpetre and sea-salt shewed on them and the whole covered up with coarse blanket. The solution takes place in about half an hour and conseals the contents of the pot.

The ice preserved in ice houses wrapped up in coarse blankets until the setting in of the rains in the middle of June.

#### Idme:

Principally obtained from the Sylhet frontier made from a meneral of a very hard texture and bluish colour.

### Ques

A very strong kind made from the sinews of the buffaloe, (ff 82v)

This pare under Tebacco should at "3rd" under "Cil" on preceding page. We In the original there is a short(rather illegible) marginal note against "Tebacco" regarding its introduction into England from some contemporary "History of England".

## Pottery Ware:

Of the composition of porcelain and lacquered wars they appear to possess no knowledge, altho the materials are afforded in the and most frontiers. The Chittagong frontier producing a very fine Gum known to Europeans under the title of wood (?) oil. The Patchett and Ramgur the Petunu and Kaolian. In the manufacture of China some progress was made by the late of Cyah sufficient to ascertain its practicability.

Their pottery were of the course unglased kind made from brick clay turned on a wheel suspended horizontally on a pivot. In this article they are excelled by the bordering nations of Pegu and Siam who practice glazing their earthen ware.

In some of the antient building (such as have come under my notice) of Mahomedan architecture small bricks glazed green and White are seen.

Wood turned in a turner's loom (?) is lacquered by the application of gum las tinged with the different coleurs. Wood painted colours is also varnished with a solution of gum Copal (?) termed by the natives Karpah - this ingredient obtained from the ports of the Red Sea (?).

In the manufacture of gold thread - Enamel and Filligree, long presticed.

### Indiget

By the fermentive and boiling process - the facula (?) precipitated with lime water or the gum of the Guul (?) apple. (ff 83r)

## (g) Brickworks):

These bricks (prepared from a soil impregnated with salt) generally become friable (?) if exposed to the effects of the atmosphere without a covering of plaister to prevent their decom position.

The apparent insensibility to such objects (exposure of the dying and dead on the banks of the rivers heightened by the contrast of the men of a country diversified with the richest culture and vegetation under the camepy of heaven, considered in the western hemisphere as only attainable and connected with civilized and humane manners) greatly indispose and prejudice, on a first view, the lower order of Europeans so as to induce them to consider the nativeses as beings of a (ff 83%) different nature from themselves, unanimated by the same feelings or motives of action and from being insensible, undeserving of humane treatment.

This steeled inattention to the social duties often or tending even to the clamorous voice of the distressed objects of humanity, because they are not immediately within the erge (?) of their charge, or connected by the ties of affinity, convey impressions wildly differing from these imbibed under a free government, where every member of the community conceived himself interested in the protection of his fellow creatures however distant the relation.

This apparent insensibility (one of the dreadful evils accruing from despotism) to every participation in the public feeling commonly in disposing, on a first view, against the general Indian character, as conceiving them divested of all humanity, whereas by their configuration, they certainly possess it in an exquisite degree and ought rather to excite compassion from their being divested of its exercise by the influence of the government they have grovelled under - nor, independent of of other obser-Dharampal Archives CPS-TS-37

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(ff 84x)

These observations drew from my amanuensis the following anecdote: "That during the severe captivity which some of the British troops suffered in the fortress of Darwar in the war of 1782 (ff 84v) in which he participated - a native traveller passing by and leoking into the wretched place of their sufferings, where they lay linked in irons under the additional pressure of famine and sickness, from the bad quality of the scanty pittance of food allowed them - this traveller burst into tears and exclaimed aloud: what! is this treatment deserved by men, who bind up and the wounds of their prisoners and dismiss them on being restored to life with money and provisions"? the guards not less struck with remorse than astoniahment at the audacity and danger to which the stranger exposed himself by the utterance of such sentiments ofter looking at one anothers for some time in silent wonder replied, ' what can (ff 85r) we do! We are helpless and should expose ourselves to worse treatment, if not death from disobedience of our orders by attempting to mitigate their sufferings!

Truly concerned am I to remark for the sake of the national character that the appearance of an European in the internal parts of this tract besides proving a bugbear to women and children puts the labourers in the adjoining fields to flight until assured of the intentions of the visitor. This owing in some degree to the prejudices pervading the lower orders of Suropeans in general against the native character but chiefly it has been represented to me to the violences committed by the numerous depraved race of native Portugese, who under the garb of a Turopean, possess nothing of his humanity, but all his defects, aggravated with the vices and isperfect part of the character of the natives of India unalloyed by the virtues of either. Let others determine whether it is not this deprayed miscreant race which have discredited the European character so much throughout India. I offer this remark under the exceptions inseparable from all general characteristics, there being several characters among them who would do honour to the most enlightened society and whose names I should mention could my feeble testimony add any thing to their general acknowledged merit. (end 85r and this section)