M.R.O. 1—33,000—16-10-20.

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1359	Press Mis.
456-57 Dated	30-8-1920	

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department,
30th August 1870.

No. 456. Read the following letter from H. RIVETT-CARNAC, Esq., Cotton Commissioner, Central Provinces and the Berars, to the Secretary to the Government of Madras, dated Simla, 6th August 1870, No. 2,435 :—

I DO myself the honour to forward an extract from a letter, received from Major Trevor Clarke, on the subject of Hybridisation, which may be of interest to His Excellency the Governor.

No. 457. ORDER THEREON, 30th August 1870, No. 1,359.

Miscellaneous.

THE enclosure, received with the foregoing letter, will be sent to the Board of Revenue for perusal and return.

2. The paper, when returned by the Board, will be communicated to the Madras Chamber of Commerce.

3. The Government are obliged to Mr. Rivett-Carnac for the extract in question.

(True Extract.)

(Signed) H. E. STOKES,
Under-Secretary to Government.

To the Board of Revenue.
„ the Chamber of Commerce.
„ H. Rivett-Carnac, Esq.

Exd. F. R. Bantleman.

Extract from a letter from Major TREVOR CLARKE, to H. RIVETT-CARNAC, Esq., dated Welton Place, Daventry, the 7th May 1870.

I HAVE just had a letter from Ashburner with some beautiful Hinguṅghât bolls, and some from a selected plant with naturally yellow tingled staple. I do not know if you are acquainted with *Coconada*, which is a cotton of this sort; now the said Coconada is much sought for by spinners, strange to say, on account of the *colour*. I have grown Coconada, and pronounced it at once to be allied to the Hinguṅghât. It would be well, I think, to look out for and propagate a *slightly* Nankeeny Hinguṅghât-race. Such a breed might be produced by crossing with a good yellow *Indian*, not American, sort. A Nankeen cotton is cultivated in India, which is of occidental race, not G. Herbaceum at all. This would not cross with the real Oriental breeds.

Your samples of seed came too late in the English year to do much with that eason, but I managed to ge a crop or two, the seed by great care being got o ripen during the late autumn and winter. Amongst others, I believe, I have rossed the purple-flowered G. Arboreum, your "Nurmah," with Hinguṅghât. wish you would make your people test the capabilities of this plant. There re several accounts of its having been tried, and all apparently with favorable sult; but nothing further appears to have come of it. The staple is undoubtedly od, strong, white, and fine, and was much admired by a spinner, a friend of mine a first rate judge. The crop will come quicker to maturity and should be longer, fter, and more to the boll. The only Indian cottons that at all come up to the *lky* properties of Uplands, according to my experience, are produced by that ed of which the bolls are dumpy and cob-nut-shaped, and only *half* opening en ripe. Dholera and Western Madras, as supplied to me, are of this kind. w a cross between a high class plant of this form and a good Hinguṅghât uld be a great step, because the big, close-pod sort produces a hard staple, least as far as I have seen. Let your people turn their attention to the task observing and tabulating, as it were, the *peculiarities* of *breeds*, especially to adaptation to different soils and climates. As far as selection goes, t staple should be looked for amongst harsh fibred, but otherwise good ts, and hardy varieties in the case of first class stapled kinds which are stitutionally tender.

My cross Hinguṅghât by Nurmah (Arboreum) is good, that is, has taken t. Also Hinguṅghât crossed by the largish stapled close-pod sorts. Also Assam Hill Cotton by Hinguṅghât.

I have just had a sample of this very interesting kind from the Agri-Horticultural Society, through Mr. Arthur Grote. I enclose some of its long, many-seeded tufts grown by myself. I wish the staple was as long in proportion. I shall enclose with this a few more seeds of the "former" sorts, in case any of the first lot may have been unsuccessful, also a few other such sorts as I think may be useful or interesting. The crosses, Sea Island by New Orleans, by New Orleans and the Hybrid Georgian, are most beautiful cottons, Orleans staple, as soft as silk. I do hope they may succeed with you. I am also very curious to know the behaviour of the sort I call Pernambuco and its crosses. It is shortish in staple, but the very hardiest sort I have ever met with. In crossing it I went in for a *hardy* Sea Island, and cannot help thinking I have effected my purpose.

My most interesting cross, *viz.*, Hingunghât by Arboreum (*i. e.*, Nurmah) is thriving and will soon flower, showing that it has secured the early flowering habit of the Hingunghât parent; of it I send you one or two seeds. I had only one small boll come to perfection.

Among the seeds now sent are a number between Hingunghât and the broad-leaved type in the close pods, and strong, bulky staple. I hope this will produce sorts with more expanded pods and finer staple combined with *length*. The Hybrid Georgian, as I call it, and the Sea Island, twice crossed with New Orleans, are most beautiful cottons. Try your best to get these into fruit. I send also several kinds of Uplands and Sea Island.