

(1) பித்தங்களின் எண்ணிக்கை

(2) புதுக்கித் திருப்பிய நாள்

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பி.சு. தி.சு.

அரசாணை எண். மு. கோப்புத் தாள் எண்.	\$987	அச்சகம் பலவகை
நாள் :	2.12.1859	199

மடிக்கவோ துண்டப்படி கையாளவோ கூடாது

பாடகோப்பு பிரிவு - 1

செப்பனியுபவர் பெயர்: S. கனிகாசாமி

செப்பனியுபவரின் எழுத்து - 12/07
கொள்வப்பட்ட நாள் 14/08/08

செப்பனியுபவர்
பெயர் (பெயர்)
கொள்வப்பட்ட

செப்பனியுபவர்
பெயர் (பெயர்)
கொள்வப்பட்ட

செப்பனியுபவர்
பெயர் (பெயர்)
கொள்வப்பட்ட

From,

Major J. F. Tennant Bengal Engineer

Government Astronomer

To

The Chief Secretary to Government

Fort St. George

Sir,

In continuation of my letter dated the 21st October 1859 recommending repairs to certain Instruments; I have now the honor to forward two lists of Instruments and stores which are unserviceable in their present state with suggestions for their disposal. I have included such instruments as have passed from the care of the Astronomer and which therefore it appears to me should no longer be borne on his books.

In addition to these there are in store a considerable number of Instruments which have not been placed in the books. In the present occupation of the principal room in the Observatory by Artificers and their constant presence about the building I am unable to find an opportunity of making a detailed list of them. Most of these appear to be of Instruments which are quite worthless, and I should be obliged by permission to sell all which I cannot turn to account.

In explanation of this state I feel bound to say that the mass of stores here cannot be stored away

the very limited space for their accommodation, and, that little
very late period there was I understand not even a safe room.
The Observatory being consequently crowded with stores never
sorted, and all the establishment having ample occupation
current work (which would readily employ even more hands),
some of the Instruments have become injured merely from the
weight of the stores and have had parts obstructed at
various times.

1. I believe the thefts have been duly
reported as discovered but it is a matter of regret that the
articles have not been disposed of in some way as they
became inefficient, instead of being allowed to encumber
the stores.

5. I learn from the Accountant General that
there is no doubt against the Astronomer for stores but that he
proposes to begin an account, and I shall have the sanc-
tion of Government for striking off and selling, transferring,
or expending on repairs, all useless stores, and (when the alterations
to the Observatory Building are completed), making one list of
stores retained for Astronomical and Magnetic & Meteorolo-
gical purposes so as to complete the fusion of the Observatories
already begun by the amalgamation of the establishments
under direct Government in 1854.

6. I regret the increasing delay, and still more
that I have been obliged by the state of the stores to apply for
leave to dispose of some in various ways, before finally deter-
mining on what shall be retained. The stores are however
so full that it is impossible to make a list of the articles
remaining much more to examine than till some room is made.

Some portions of the articles I have proposed to sell
will be useful probably in the repairs of others, and I should be
glad of permission to use my judgment on this point. As there
is no market here for such things the prices obtained will in
all probability be merely nominal, and using them thus will
save more than will be realized by a sale.

~~This Excellency in Council will see that of the~~
two Dip Circles the property of Government neither is available
for use; indeed for some years a large one the private property
of Captain Ludlow of the Madras Engineers has been in use.
As one must be got if Magnetic observations are to be made
I propose that this be bought. The English price was £40 and
I recommend Captain Ludlow having authorized me to fix
a sum ~~that~~ be taken at the equivalent of Rupees 400 in con-
sideration of the long time it has been in use.

The two small Transits are as will be seen
one defective and the other unsteady from the wear of 20 years.
A new Instrument would be the best remedy. One could be
procured for 22 Guineas from Mr. Simms. It would be possible
to obviate in some measure the defects of the present mounting,
but that would cost fully half the value of a new Instrument,
but that would cost fully half the value of a new Instrument,
but that would entail the cessation of observations for some time, and be
a less satisfactory procedure, as it is more than probable that the
joints of the Instruments have become sensibly unequally worn.

I have the honor to be

Sr

Your Most obedient servant

Frederick Maury
Government Astronomer

Madras Observatory
20th December 1857

Madras Observatory

Statement of useless unserviceable and unrepairable Instruments on the Books of the Magnetic Department.

Names of Instruments	Remarks
1 Old Anemometer received per Columbus.	This Instrument appears to have been long in use at Bangalore and I should be obliged by its being written off from the Debit of the Observatory.
1 Repaired Standard Barometer per Owen glendower	This Instrument is employed at Juckatalla under orders of Government dated 3 rd May 1859. It is like the last beyond my control and I should be obliged by its being written off.
1 Tide gauge per Washington	The Clock and Cylinder of this alone remain the rest having been stolen in 1853. It is useless and not worth repair. I recommend its unreserved sale.
Transit Instruments by Dollond	The stands of this is wanting. The Telescope is occasionally used on the stand of a second.
Chronometer No 1364 by Arnolds and Dent.	The Chronometer is perfectly useless. It does not perform better than a good watch and I recommend its sale.
Variation Transit received by Columbus.	The lower part of this Instrument has been stolen and it is useless. I recommend its sale.
Dip Circle and Needles received by Columbus.	This is useless and should be sold.
Anemometers received per Anna Robertson.	One of them is employed at Juckatalla the second has been in use here but finding it quite unserviceable I dismounted it and have only returned its vane and pressure plate. That at Juckatalla

Dated 20th December 1859

Received

Per y East 20th Dec

Sl No 37

Stomach's state of it unserviceable &c. Instruments in store at the Observatory with suggestions for their disposal to obtain order of Government.

Madras Observatory
20th December 1859

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1859

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Statements (Continued)

Names of Instruments	Remarks
2 Anemometers received per Anna Robertson (Continued)	Should write with etc and that label in use here should be sold as far as not in use.
1 Wet and Dry Thermometer	In use at Sachkatta to be written off
1 Photometer	In use at Sachkatta to be written off
Magnet for Vertical force Magnetometer	In store but rusty and useless. To be sold if possible to sell it.
1 Anemometer ex "Greenlaw"	Parts have been stolen and the remainder is worth retention to be sold.
Horizontal lat force and Horizontal Intensity Instrument as John Jones.	There appears some errors in the nomenclature. These Instruments are useless being out of order. I should be glad to have them.
Transit Instrument by Dollond	This is in use but the stand is very unsuitable. A new one would be very desirable. If one be procured I should recommend the sale both of this and the former Transit Instrument.
1 Beam Compass	Useless only the beam remains which is worth retention.
Ramsden Intensity Apparatus	In store incomplete. This is never used and might be sold.
Chronometer Parkinson and Frodsham No 2295	Was issued to Messrs. Schlegel and Co. under duty of Minutes of Consultation 26 th March 1856. It should be now struck off as probably irretrievable.
Set Meteorological Instruments sent out in June 1852	Of this 5 Thermometers remain and I propose to enter these on the books and strike out the items as sold.

Madras Observatory

Statement of useless, unworkable and unrepairable Instruments on the books of the Astronomical Department.

Names of Instruments	Remarks
Quadrant by Biers	This instrument is by one of the best makers of the last century and was one of the early instruments of the Observatory. It is now quite out of date and of no use. I propose to keep it as a relic of a past stage of astronomy and to clean and repair it when times serve.
1 Inch Transit by Stanchiff 1 Inch Altitude Azimuth	Except for the prestige of the makers names and as early in use here these two instruments are valueless. I propose however to retain them as relics. They also should be cleaned and repaired.
1 Vacuum for experiment	This instrument was employed by the late Mr. Goldingham in researches on gravity. It is of no value and having no remarkable points I propose its sale as old metal. It can be turned to no useful purpose except by putting it up.
1 1/2 Inch Transit by Dollond	This instrument was sent out in 1829 and mounted by Mr. Taylor in 1831. In 1834 it was repaired by the Honorable Company's instrument maker in Calcutta. It has been in constant use till the arrival of the new transit circle. Now it is valuable as an illustration of a stage in astronomy and the object glass (which is believed to be good) may possibly be detached if wanted.
1 1/2 Inch Transit by Dollond	This arrived at the same time as the last and has since been in habitual use. It is now worn out and only valuable as a relic. In addition to the object glass

Statement (Continued)

Names of Instruments	Remarks
4 foot Mural Circle by Dollond (Continued)	The Circle might at any time be copied from the Instruments should be retained as record.
5 foot Achromatic on Stand	This Instrument was built out in 1839. It always borne a high character as a Telescope. The mounting has long been so unsatisfactory as seriously diminish its powers. The Lerebours Equatorial has in respects superseded it but as there is still work for propose removing it firmly under sanction of Consultation 26 th October last. The Micrometer is to adopt to the Lerebours Instrument where a screw wanted. Several eye pieces have been stolen.
2. 62 Inch Achromatics (on stands)	These Instruments are very unsatisfactory from age and some what deficient in power. I propose to repair the mountings and employ them for ~~astronomical~~ ~~scientific~~ purposes.
1 Mountain Barometer	The Scale and tube of this alone remain, it is useless and not worth repair. I propose to sell it.
1 Barometer by Harris	Both these Instruments are in bad order. They are of a construction which has long been considered unsatisfactory for scientific purposes and I propose their sale.
1 Ditto by Tagliabue	
1 Chronometer (Arnold 39)	This Instrument is so much injured as not to be worth repair. It is useless and I recommend its sale.
A pair of Globes.	These are useless being rickety from age and surfaces being somewhat injured. I recommend their sale and the purchase of a new pair.
2 Color Microscopes	The use of these Instruments is no part of an observatory and they have consequently laid in

Statement (Continued)

Names of Instruments	Remarks
Color Microscopes (Continued)	unheeded. Portions have been stolen and they are now only fit to be sold for materials.
Diastrophs Protractor	These are of no use in this establishment. They might be transferred to an Instrument Depot for issue if desirable or possibly to the Survey Department.
Wright's Compass	The whole contents of this box have been stolen except two or three pieces. It is certainly not worth repair and can only be sold as a formality.
Stand for a Circumferenter	This is quite useless and I recommend its sale as a form for it is valueless or its conversion to use as wood and metal.
Small Ivory Globe	of no use and only valuable for its material. advise its sale.
Seating by Broughton ditto by Watkins	These are old Instruments and of no use. Their repair would be a waste of labor and I recommend their sale.
Time Clock (Montg)	This is a very old Clock and wants repair. It has been in use for some time in the residence being unfit for astronomical purposes and as it will hardly bring a price I recommend its retention and repair for its present use as conducive to regularity.
1 Rain gauge	Out of use and in bad order but could be repaired for any Department in want of it.
1 Telescope with stand	This will be altered and employed with the new Circle

Statements (Continued)

Names of Instruments	Remarks
1 Telescope without stand	This was a reflecting telescope but the speculum has been stolen and it is now a mere brass tube only fit for sale or conversion.
1 Artificial Horizon	Of no use in the Observatory and probably none to any Government Departments. Recommend its sale.
1 Stand for a small sextant	Quite useless here and had best be sold or expended as materials.
1 Box with dark glasses	Erroneously described in the lists as eyepieces. These are of little value and might be written off. Perhaps they may be made available.
1 Sextant and stand 1 Artificial Horizon by Throughton	These were formerly detached to Cochin and then sent to Bombay. They are not required again and might be removed from the Observatory Books.
1 Similar Instruments	Were employed at Pondicherry and have lately been transferred to Jackatalla. Being beyond my control I should be glad to be relieved of these.
1 Artificial Horizon	Was issued in 1843 by order of Government to the Assistant Surveyor General Ganjam and might be removed from the Observatory list.

Memorandum. Some small repairs to chronometers have been put in hand as before reported and I have been compelled to send another watch to be cleaned.

Madras Observatory
25 December 1859.

Memorandum
Government Astronomer

Statements (Continued)

Names of Instruments	Remarks
1 Glass needles received at Fort William	Kindly and broken only useful for steel or to be sold as such.
1 Circle from in series.	Not found. This is believed to have been sent to Bombay.
1 Radiation Transit Instrument of same series	Useless. The lower part has been stolen and this should be sold.
1 Repaired Standard Barometers.	The Instruments to be sold are useless having long been deranged and they are quite unfit for standard Instruments of the present day. If filled and compared they will be available as Barometers for registry or such comparisons as those of Aneroids and could be disposed of for these purposes.
1 Repaired Standard Barometer belonging to the Hyderabad Observatory	It is difficult to understand why this is on the books. It is noted as sent to Bellary and I think it should be struck off from my books.
1 Thermometer for Terrestrial radiation	Broken. Reflector to be sold.
1 Electrometer	Useless to be sold.
1 Daniell's Hygrometer	There are 6 of 5 in store mostly imperfect. I propose retaining two serviceable ones and selling the rest.

Note. There are besides several other instruments no-
wrently on the books and a large number of old cases
ous sorts. I propose to sell all that do not promise
useful.

Madras Observatory
20th December 1859

P. Hermann Major
Government Astronomer

12/10/59
G. H. 1957.