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(2) Date of repair 20.12.64

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 3466	Press
67-68	Mis.
Dated 3-12-	1864

Not to be folded or roughly handled

11

*Proceedings of the Madras Government, Public Works Department,
3rd December 1864.*

No. 67. Read the following Proceedings of the Madras Government in the Revenue
Department:—

Granting permission for 12 Circumferentors, of
an improved description, being made up by
the Government Mathematical Instrument-
maker, for the use of the Revenue Survey } (Here enter 29th November 1864, No. 2,175.)
Department.

No. 68. ORDER THEREON, 3rd December 1864, No. 3,466.
Communicated to the Officer in charge of the Store Department.
(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Officer in charge of the Store Department.

Exd. T. O'Connor.

22

*Proceedings of the Madras Government, Revenue Department,
29th November 1864.*

No. 344. Read the following letter from Lieutenant-Colonel F. J. B. PRIESTLEY, Superintendent of Revenue Survey, to J. D. SIM, Esq., Secretary to Government, Revenue Department, Fort Saint George, dated Chepauk, 8th November 1864, No. 894-32:—

SIR,

1. I have the honor to bring to the notice of Government an improved description of a Circumferentor, which Captain Barber, Deputy Superintendent Revenue Survey, has had made up at his own expense, under his own superintendence by a Native workman at Tinnevely, and for which I may observe a reward of Rupees 30 was awarded by the Committee of the last District Exhibition.

2. It consists of a plate with a graduated edge, above which work two arms with Vernier's reading to 3'. The latter carry at right angles to them folding sights; in one of them is a slit, and in the other a wire is stretched as in the ordinary Surveying Compass. In the centre is placed a circular Compass removable at pleasure. The whole folds up into a box a few inches square.

3. I have examined the instrument, and am of opinion that if well graduated and with Vernier's reading to 1' it will possess the following advantages:—

I. Its cost will be one-seventh of that of a Theodolite, and little more than half that of a Prismatic Compass or ordinary Circumferentor.

II. It is as portable as a Compass, and much less likely to be damaged.

III. For short distances it will read as accurately as a Theodolite; and far more so than any Surveying Compass.

25 Theodolites	...	Cost	5,250
100 Compasses and Circumferentors	...		5,500
5 Do. with telescope	...		500
Total	...		11,550
130 Circumferentors, Captain Barber's pattern	...		4,550
			7,000

4. For part of the work on which small Theodolites are now used in the Revenue Survey, and in almost all cases for Prismatic Compasses and Circumferentors this instrument might be substituted, at a saving in first cost of Rupees 7,000.

5. I have now to solicit the permission of Government to have twenty of these instruments made up by the Government Instrument-maker. The one constructed at Tinnevely is badly graduated, and has other instrumental defects, which will be corrected in those made here. Mr. Doderet informs me that their cost will be about Rupees 35 a piece.

6. If the sanction now sought is accorded, I propose to send a few to each survey party for trial and report, and also to the Civil Engineering College and Department of Public Works if thought advisable. Should the experiment prove successful the Department will be under obligation to Captain Barber, to whom I think great credit is due for his endeavour to adapt our Survey instruments to the work required and to the persons using them.

No. 345. ORDER THEREON, 29th November 1864, No. 2,175.

Miscellaneous.

1. On the recommendation of the Superintendent of Revenue Survey, the Government grant permission for twelve Circumferentors of the kind mentioned being made up by the Government Instrument-maker, at the estimated cost of Rupees 35 each. The result of the trial of these instruments should be reported in due course.

2. Colonel Priestley will state how he proposes to meet this charge, also whether the present sanction will admit of his dispensing with any of the Circumferentors included in his last Indent on England.

* G. O. 20th May 1864, No. 863.

(True Extract.)

Signature
Under Secretary to Government.

To the Superintendent of Revenue Survey.
„ the Public Works Department.
„ the Accountant General.
„ the Civil Paymaster.
„ the Military Department.

Exd. S. T. Augustin.

*Proceedings of the Madras Government, Revenue Department,
29th November 1864.*

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2. It consists of a plate with a graduated edge, above which work two arms with Nervier's reading to 3'. The latter carry at right angles to them folding sights, in one of them is a slit, and in the other a wire is stretched as in the ordinary Surveying Compass. In the centre is placed a circular Compass removable at pleasure. The whole folds up into a box a few inches square.

3. I have examined the instrument, and am of opinion that if well graduated and with Nervier's reading to 1' it will possess the following advantages:—

I. Its cost will be one-seventh of that of a Theodolite, and little more than half that of a Prismatic Compass or ordinary Circumferentor.

II. It is as portable as a Compass, and much less likely to be damaged.

III. For short distances it will read as accurately as a Theodolite, and far more so than any Surveying Compass.

	Cost.
25 Theodolites	5,250
100 Compasses and Circumferentors	5,500
Do. with telescope	800
Total	11,550
130 Circumferentors, Captain Barber's pattern	4,550
	7,000

4. For part of the work on which small Theodolites are now used in the Revenue Survey, and in almost all cases for Prismatic Compasses and Circumferentors this instrument might be substituted, at a saving in first cost of Rupees 7,000.

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* G. O. 20th May 1864, No. 863.

(True Extract.)

J. D. Sim
Under Secretary to Government.

To the Superintendent of Revenue Survey.
" the Public Works Department.
" the Accountant General.
" the Civil Paymaster.

4/17/1964 Dept
Pro. of Washington
44-5736

Pro. of Govt in the
Rev. Department
2/29/64
Rec. 1 Dept
44-5736

Granting permission
for 12 circumstances;
if an informant is
- citation being made
up by the government
- alternative citation
- reporter, for the use of
the Revenue Survey
Department.
44-5736-3228202/64
With and also

44-57366.

Communicated to the Office
in Charge of the State Department.

Re: 44-57366
3/20/64 }
44-57366

to the Office in Charge of the State Dept.

Chief of the Bureau.