

Report on repairs of scientific instruments executed
by Messrs J. Orr and Sons for J. W. Storer

Name of Instruments	Defect noticed in repairs executed
Dumpy Level 12" No 16	The bubble of the level deviates from its centre. Instrument tube carrying the diaphragm has a rocking motion, causing the cross wires to read incorrectly.
Do — Do 14" No 723	Cross wires very dirty, washers belonging to collimating screws broken and bent.
Prism Compass & Stand No 137	Axis inaccurately ground, and thereby causing a shake to the whole instrument. Magnetic needle not balanced properly, consequently out of adjustment.
Do — Do No 2337	Completely out of adjustment.
J Level 14" No 758	The instrument very shaky and completely out of adjustment.
Do 14" No 664	Do — Do — Do — Do.
Leveling Instrument	The bubble does not retain its centre, instrument tube carrying the diaphragm very shaky.
Troughton's Improved 20" No 375	Instrument do not fit into their sockets.
Math. Instr. Box No 1	
Compass Proportionals & Co	Mill-headed screw does not work the slide forwards.
Do — Do Small	Dividing incorrect.

J. W. Storer
26th April 1888

A. Joyce
Genl Supt. J. W. Storer

1/33 P.W. Sec
26-4-88

E. 1
P.W. 40524/88

No 153 W Presidency P. W. Workshops
Madras 24 April 1888
From

A. Jaque Esquire
General Superintendent
Public Works Workshops,

To
The Superintending Engineer
5th Circle
Madras.

Sir,

Accompaniment 1
1 Statement

In compliance with G. O. No 255 W dated the 21st January 1888 ordering a batch of Scientific Instruments to be sent for repair to Messrs. O. O. and Sons Madras. I have the honor to state that the instruments comprised in the sanction registered as $\frac{365.8}{87.85.5}$ were sent to that Firm on the 30th January last and received back on the 19th March 1888 by the P. W. Stores Department.

2. With reference to our endorsement No 147 dated the 14th Instant on G. O. No 1056 W dated the 7th April 1888 calling for a report on the quality of their work I beg to state that on examining the repairs executed I found defective

defective work done in certain cases which are shown in the annexed Statement these Instruments therefore cannot be sent out to indenting Division.

3. To give proper facility to Messrs. Orr & Sons I proposed to Mr. R. Orr to come to the work-shops & have an inspection of the Instruments which he has done with his Foreman who after inspection was seemingly convinced of the bad workmanship of the Instruments.

4. I beg to enquire whether the Instruments may be set right in the workshops & the charges appertaining thereto deducted from the claim due to Messrs. P. Orr and Sons.

5. On the whole I cannot recommend now any more Levelling Instruments being sent to them for repair as they seem to be in want of a thorough practical man to superintend such works.

6. The instruments are in the Public works Stores & may be inspected by you to form an opinion of the work done by Messrs. P. & Sons.

I have to

(sd) A. Joyce

Genl. Suptt. P.W. Workshops

Ro

No 376

Enclosure 1 -
Statement showing
the quality of repairs
executed by Messrs.
Orr & Sons to certain
Scientific Instruments

Submitted to the Chief Engineer
Public Works Department with reference
to para 3 of G.O. No 1056 W dated 7th
April 1888.

2. I request that I may have orders on para 4 of the General Superintendent's letter.

✓ *Adelphius*
Col R. E.

Bauglasse

30^e April 1880.

Supg: Engineer's circle

The Public should be
sent back to Prof. W.
of Hays one fresh
in order on the P.M.
Wednesday, these
will be smaller
decisions about
the work.

no 1056 W of 7. 4. 88
" 616 C of 11. 2. 88
" 255 W of 21. 1. 88
" 4373 C of 31. 11. 87

P.W.D. No 4054
From

The Supt. Engineer
V Circle.

To
The Chief Engineer,
P. W. D.

Dated 30th
Recd 1.5.88 } April 1888.

Enclosure - 1

No 376

Scientific Instruments.
Requests that Orders
may be issued regarding
the repairs to the - which
were repaired by Messrs
Orr & Sons.

No 1374 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 7th May 1888

Read the following

From the S. S. I Circle No 376 of 30. 4. 88

Recorded.

2. The instruments
not properly repaired
should be returned
to Messrs Orr & Sons
to be put in order.

WOM
3.5.88

2. When this has been done, the
S. I. should personally examine
all the articles repaired and
submit a special report on them

ppH
5 May

S. S. I Circle

John
4/5/88.

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375

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2. The first of these is the fact that the...

No. 1374 W. 2/9th May 1888

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off 26
in
H. 5/5
in 7/5

18/5
18/5
18/5