M.R.O. 1—10,006—23-2-50.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

# MADRAS RECORD OFFICE

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## Government of Madras

Public Works DEPARTMENT

| | | | |
|---|---|---|---|
| G.O. No. / B.P.—No: | 1343 | Press —Mis.— | |
| Dated | 20—5 | 1874 | —195—. |

***Not to be folded or roughly handled***

*Proceedings of the Madras Government, Public Works Department, 20th May 1874.*

No. 413. Read the following letter from Lieut.-Colonel J. GODDARD, R.E., District Engineer, Presidency, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Fort St. George, 30th April 1874, No. 474:—

WITH reference to paragraph 3 of G. O., No. 278, dated 5th February 1874, I have the honour to submit the statement of the instruments received and despatched after being repaired, cleaned, and adjusted by the Mathematical Instrument-maker, Department Public Works, from 7th September 1873 to 31st March 1874.

2. From the statement it will be observed that 35 instruments of the Public Works Department and 263 of the Civil and other Departments have been repaired, against 491 and 701 respectively at the period of the last return. Hence we may hope that the good effects of G. O., dated 5th February 1874, No. 278, are now in action, although a contrary conclusion is also at our option.

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*List of Instruments received and despatched, repaired, cleaned, and adjusted by the Mathematical Instrument-maker, Department Public Works, from 7th September 1873 to 31st March 1874.*

| Description of Instruments. | Public Works Department. | Civil and other Departments. | Total. |
|---|---|---|---|
| Aneroid ... ... ... ... ... ... ... ... | 1 | 1 | 2 |
| Barometer ... ... ... ... ... ... ... ... | ... | 3 | 3 |
| Binocular ... ... ... ... ... ... ... ... | 1 | ... | 1 |
| Chains, iron ... ... ... ... ... ... ... ... | ... | 53 | 53 |
| Clinometer ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Compasses, Prismatic ... ... ... ... ... ... ... ... | 5 | 27 | 32 |
| Do., Pocket ... ... ... ... ... ... ... ... | 2 | ... | 2 |
| Do., Beam ... ... ... ... ... ... ... ... | 1 | 2 | 3 |
| Do., with Ceylon points ... ... ... ... ... ... ... ... | ... | 3 | 3 |
| Chains, brass ... ... ... ... ... ... ... ... | ... | 2 | 2 |
| Circumferenters ... ... ... ... ... ... ... ... | 1 | 8 | 9 |
| Chains, Gunter's ... ... ... ... ... ... ... ... | ... | 6 | 6 |
| Compasses, Magnetic ... ... ... ... ... ... ... ... | ... | 2 | 2 |
| Eidograph ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| English Clock ... ... ... ... ... ... ... ... | 1 | ... | 1 |
| Gunner's Quadrant ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Ghat Tracers ... ... ... ... ... ... ... ... | ... | 1 | 2 |
| Gasometer ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Galvanic Battery ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Helliotropes ... ... ... ... ... ... ... ... | ... | 4 | 4 |
| Hydrometers ... ... ... ... ... ... ... ... | 1 | 5 | 5 |
| Levels, French... ... ... ... ... ... ... ... | ... | ... | 1 |
| Levelling Staves ... ... ... ... ... ... ... ... | ... | 22 | 22 |
| Do. Instruments... ... ... ... ... ... ... ... | 1 | 41 | 42 |
| Levels, Pocket ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Do., 2nd class ... ... ... ... ... ... ... ... | 1 | 6 | 7 |
| Do., Spirit, Bricklayer's ... ... ... ... ... ... ... ... | 3 | ... | 3 |
| Lamps, Signal ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Levels, Spirit ... ... ... ... ... ... ... ... | ... | 1 | 1 |
| Mathematical Instrument boxes ... ... ... ... ... | 3 | 2 | 5 |

Carried Forward ... 13 117 130

*Proceedings of the Madras Government, Public Works Department, 20th May 1874.*

*List of Instruments received and despatched, repaired, etc.*—(Concluded.)

| Description of Instruments. | Public Works Department. | Civil and other Departments. | Total. |
|---|---|---|---|
| Protractor, Ivory 8" | 1 | ... | 1 |
| Planimeter | ... | 1 | 1 |
| Parallel Ruler | ... | 1 | 1 |
| Protractor, Circular | ... | 1 | 1 |
| Perambulators | ... | 8 | 8 |
| Rain Gauges | 4 | 7 | 11 |
| Squares, Optical | 2 | 2 | 4 |
| Straight Edges | 4 | 2 | 6 |
| Telescopes | 1 | 6 | 7 |
| Theodolites | ... | 36 | 36 |
| Do., Transit | ... | 3 | 3 |
| Thermometer Maximum | 1 | ... | 1 |
| Total... | 35 | 263 | 298 |

CHEPAUK,
21st *April* 1874.

(Signed) J. N. GRAINGER,
*Genl. Supt., Public Works Workshops and Stores.*

No. 414. ORDER THEREON, 20th May 1874, No. 1,313.

ACCOUNT, No. 24.

ORDERED to be recorded and circulated with reference to G. O., No. 278 of 5th February 1874.

(True Extract.)

Colonel, R.E.,
*Secretary to Government.*

To District Engineers.
To the Executive Engineer, Wynaad.
" Consulting Architect.
" Revenue Department.
" Public do.
" Military do.

Ed. S. T. Austin.
Spare Copies

2-2

List of Instruments received and despatched repaired, cleaned and adjusted by the Draughtsman Instrument Maker P.W.D. from 7th September 1873 to 31st March 1874.

| Description of Instruments. | Public Works Dept. | Civil and other Dept. | Total. | Remarks. |
|---|---|---|---|---|
| Aneroid | 1 | 1 | 2 | |
| Barometer | 3 | | 3 | |
| Barometer | 1 | | 1 | |
| Barometer | | 53 | 53 | |
| Barometer | | 1 | 1 | |
| Barometer | 5 | 27 | 32 | |
| Compasses Prismatic | 2 | | 2 | |
| Do Pocket | 1 | 2 | 3 | |
| Do Beam | | 3 | 3 | |
| Do with Cylinder points | | 2 | 2 | |
| Compasses Brass | 1 | 8 | 9 | |
| Circumferenters | | 6 | 6 | |
| Compasses Gunters | | 2 | 2 | |
| Compasses Magnetic | | 1 | 1 | |
| Cyclographs | 1 | | 1 | |
| Dishclock | | 1 | 1 | |
| Dumpers Quadrant | 1 | 1 | 2 | |
| Flat Tracers | | 1 | 1 | |
| Gasometer | | 1 | 1 | |
| Galvanic Battery | | 4 | 4 | |
| Heliotropes | 13 | 117 | 130 | |
| Carried over | | | | |

| | | | |
|---|---|---|---|
| Brought over | 13 | 117 | 130 |
| Hydrometers | " | 5 | 5 |
| Levels Circles | 1 | " | 1 |
| Levelling Staves | " | 22 | 22 |
| —do— Instruments | 1 | 41 | 112 |
| Levels Pocket | " | 1 | 1 |
| —do— 2nd Class | 1 | 6 | 7 |
| —do— Spirit Bricklayers | 3 | " | 3 |
| Lanspeckenal | " | 1 | 1 |
| Levels Spirit | " | 1 | 1 |
| Mathematical Instrument Boxes | 3 | 2 | 5 |
| Protractors Ivory 8" | 1 | " | 1 |
| Planimeters | " | 1 | 1 |
| Parallel Rulers | " | 1 | 1 |
| Protractor Circular | " | 1 | 1 |
| Perambulators | " | 8 | 8 |
| Ranilgraves | 11 | " | 11 |
| Squares Optical | 2 | 2 | 1 |
| Straight Edges | 4 | 2 | 6 |
| Telescopes | 1 | 6 | 7 |
| Theodolites | " | 36 | 36 |
| —do— Gravatt | " | 3 | 3 |
| Thermometer Maximum | 1 | " | 1 |
| Total | 35 | 263 | 298 |

Public Works Workshops
Chepauk 2nd April 1874

L. H. Vaughan
Asst Supt of Mathematical Instrs

Jno Graves
Ft. Col. R.E.

Public Works 1874 Dept.
From [illegible] No: 2592

The Dist. Engineer
Pondicherry

To
The Chief Engineer
S.P.W.

Dated 30th April 74
Recd. 1st May-74
No 474 Civil Dept.

Submits List of Instruments received and despatched, repaired, cleaned and adjusted by the Mathematical Instrument maker from 7th Sept. 73 to 31st March 1874

Nil

Public Works Workshops
Chepauk 2nd April 1874

L. H. Vaughan
Asst Supt of Mathematical Instrs

Jno Graves
Ft. Col. R.E.

1343

Public Dept
with reference to G.O. No. 270 of 5th Feby. 1874

L. H. Vaughan
Asst Supt of Mathematical Instrs

415-444

Recd 4/5/74
Recd 1st May 74

Govt. of 1874 Madras. 25927

PUBLIC WORKS.

To Dist. Engrs.

Dated

Recd. Encl.

G. O. 20 May 1874, No. 1343

Nos. 413-414.

to the Officers & Depts
concerned —

Instruments —

Letter from the Dist. Engr Perry
enclosing a Statement of
Instruments rec'd & despatched
after being repaired, cleaned,
& adjusted by the Mathematical
Instrument Maker &c &c.
from 7th Sept. 1873 to 31st March
1874, recorded & calculated &