Archives I—10,000—6-10-76.

(1) Number of pages 26

(2) Date of repair -10-86

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

G.O. No. / B.P. No. 616 W

Press. / Mis.

Dated 28.2.1879 19~~7~~.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

28th February 1879, No. 616 W.

General.

Account.

No. 284. Read again G.O., No. 513 W, dated 19th February 1879.

Read also the following papers:—

No. 284-A. From Lieutenant W. L. C. BADDELEY, R.E., Acting General Superintendent, Public Works Workshops, to the Deputy Chief Engineer, Public Works Department, dated Madras, 24th February 1879, No. 4,492.

WITH reference to G.O., No. 513 W, dated 19th instant, I have the honor to report that the case of the clock was placed in position in the Master Attendant's office on Saturday afternoon; but Messrs. Orr and Sons have not up to the time of writing this letter returned the works which were sent to them by Mr. Pogson to be cleaned; they have however, I understand, promised to complete their work today. The semaphore has been fixed to the flagstaff, and a temporary arrangement put up to work it by a hand trigger until the electric arrangements (a report on which is herein enclosed) can be completed.

2. I also enclose an estimate* of the probable cost of the work including the items ordered by His Grace the Governor on Friday afternoon.

* Will follow.

No. 284-B. From the same Officer, dated Madras, 25th February 1879, No. 4,503.

IN continuation of my letter, No. 4,492, dated yesterday, I have the honor to report that the works of the clock have just been put in by Messrs. Orr and Sons, but a day or two will be required for rating and making the electric adjustments.

No. 284-C. From the same Officer, dated Madras, 24th February 1879.

WITH reference to the concluding paragraph of G.O., No. 513 W, dated 19th February 1879, I have the honor to report that there are three ways of working the semaphore attached to the flagstaff on the roof of the Master Attendant's office:—

1st.—By means of a hand trigger, to be worked by a man watching the second hand of the clock.

2nd.—By a trigger worked by electricity directly from the Motor clock in the Observatory.

3rd.—By altering the clock in the Master Attendant's office to enable it to work the trigger independently of the Observatory clock.

2. The objection to the first method is its want of accuracy.

3. The advantages of the second plan are that no alteration will be required in the Master Attendant's clock, and also the fall of the semaphore will be a check upon its accuracy, for although regulated by electricity it is possible that it may not always exactly agree with the regulating clock in the Observatory.

4. The third plan necessitates some addition to the mechanism of the Master Attendant's clock, and is open to the objection of the semaphore failing to fall at the correct time whenever there is any difference between the regulating and regulated clocks.

5. Mr. Pogson and Mr. Winter have kindly given me their advice on the matter, and I believe they are both of opinion that the plan of working the semaphore direct from the Observatory would be found the most satisfactory one.

6. With regard to details I would suggest that the spare electro-magnetic apparatus (used for firing the fort gun) now in the Observatory should be utilised, as it is not probable that it will be otherwise required, but, if necessary, a similar one could be made; the trigger or catch to hold the semaphore in position and the necessary pullies and wire rope would be furnished and fitted up by the Workshops, whilst Mr. Pogson would arrange with Captain Taylor for supplying the current and the general working of the clock and semaphore.

No. 285. ORDER THEREON, 28th February 1879, No. 616 W.

HIS GRACE the Governor in Council considers that the clock should be connected with the Motor clock at the Observatory in the manner proposed in Lieutenant Baddeley's letter of the 24th instant.

2. The approximate estimate of Rupees 145 is sanctioned, and the Financial Department will have the necessary funds placed at the disposal of the Public Works Department, Rupees 37 being provided in addition to the abovenamed amount for establishment charges.

(True Extract.)

Colonel, R.E.,
Ag. Secy. to Govt., P.W.D.

To the General Superintendent, Public Works Workshops.
" Financial Department.
" Examiner of Public Works Accounts.

Exd. C. Howarth.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of (1879) Madras

PUBLIC WORKS.

To

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS.
&c., &c., &c.

Dated February 28th.

Issued

Recd. Exd.

G. O., 28th February 1879, No. 616 W.

FEBRUARY.

Nos. 284-285.

Removing the Electrical Clock from the Observatory and fitting it up in the Master Attendant's Office, Madras.—Sanctions with remarks the approximate estimate of Rs. 146 for —.

P1

PRESIDENCY WORKSHOPS, D. P. W.,
Madras, 24th February 1879.

No. 4492

513/7

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Deputy Chief Engineer D.P.W.
Fort St George
Madras

Enclosures. 2

SIR,

With reference to G.O. No. 513 W dated 19th instant I have the honor to report that the case of the Clock was placed in position in the Master Attendant's Office on Saturday afternoon; but Messrs. Orr & Son have not up to the time of writing this letter, returned the works which were sent to them by Mr Pogson, to be cleaned, they have however, I understand, promised to complete their work today. The armature has been fixed to the Flag staff, and a temporary arrangement put up to work it by a hand trigger, until the electric arrangements (a report on which is herein enclosed) can be completed.

*will follow

2 I also enclose an Estimate* of the probable cost of the work, including the items ordered by His Grace the Governor on Friday afternoon

I have the honor to be
Sir
Your most obedient Servant
M. C. Baddeley Lieut RE
Ag. Genl Supt Presy Pl Workshops

xd [illegible]

No. [illegible]

From

The Genl. Supt., P. W. Workshops,
Madras,

To

The Dy Chief Engr DPW
Fort St George

Dated 24 } February 1879.
Despd. 24 }

No 4492

ENCLOSURES. 2

Subject.

Reports date on which the Electrical clock was put up in the Master Attendant's office Madras in compliance with G.O. quoted within

Read letter here under —

His Excellency the Governor in Council direct the connections be made with the Master Clock & sanction [illegible] — WH
2059

284

P2

PRESIDENCY WORKSHOPS, D. P. W.,
Madras, 25 February 1879.

No. 4503

613/3

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Deputy Chief Engineer
DPW
Fort St George,

Enclosures.

SIR,

In continuation of my letter No 4492, dated yesterday, I have the honor to report that the works of the clock have just been put in by Messrs Orr & Sons, but a day or two will be required for rating and making the electric adjustments.

I have the honor to be
Sir,
Your most obedt Servt

H C Baddeley Lt R.E.
Ag Genl Supdt P.W. Workshops

No.

From

The Genl. Supt., P. W. Workshops,
Madras,

To

The Dy Chief Engr
D.P.W. Madras

Dated 25 } February 1879.
Despd. 25 }

No 4503

ENCLOSURES.

Subject.

Reports that the works of the Electrical Clock have just been put in by Messrs Orr & Sons at the Master Attendant's Office Madras.

284 B

83

PRESIDENCY WORKSHOPS, D. P. W.,
Madras, 24th February 1879.

No.

613/5

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Deputy Chief Engineer D.P.W.
Fort St George
Madras

Enclosures.

SIR,

With reference to the concluding para of G.O. No. 513 W. of 19th Feby /79, I have the honor to report that there are three ways of working the Semaphore attached to the Flag staff on the roof of the Master Attendant's Office—

1st By means of a hand trigger, to be worked by a man watching the second hand of the clock

2nd By a trigger worked by electricity directly from the Motor clock in the observatory.

3rd By altering the clock in the Master Attendant's Office, to enable it to work the trigger independently of the observatory Clock.

2. The objection to the first method is its want of accuracy—

3. The advantages of the second plan are that no alteration will be required in the Master Attendant's Clock and also the fall of the Semaphore will be a check upon its accuracy, for although regulated by electricity it is possible that it may not always exactly agree with the Regulating clock in the observatory.

4. The third plan necessitates some addition to the Mechanism of the Master Attendant's Clock, and is

open

open to the objection of the Semaphore failing to fall at the correct time whenever there is any difference between the regulating and regulated clocks.

5. Mr. Pogson and Mr. Winter have kindly given me their advice in the matter, and I believe they are both of opinion that the plan of working the Semaphore direct from the Observatory would be found the most satisfactory one.

6. With regard to details I would suggest that the spare Electro Magnetic apparatus (used for firing the Fort Gun) now in the Observatory should be utilized, as it is not probable that it will be otherwise required, but if necessary a similar one could be made; the trigger or catch to hold the Semaphore in position and the necessary pullies and wire rope would be furnished and fitted up by the Workshops, whilst Mr. Pogson would arrange with Captain Taylor for supplying the current and the general working of the Clock and Semaphore.

I have the honor to be
Sir
Your most obedient Servant
H. C. Baddeley Lieut R.E.
Ag. Genl. Supt. Rly. Workshops

No.

From

The Genl. Supt., P. W. Workshops,
Madras,

To

Dated }
Despd. } 187 .

ENCLOSURES.

Subject.

2 84 C

Estimate of the probable cost of setting up an electric Clock and Semaphore, at the Master Attendant's Office Madras

613/9

Particulars of Work	Number	Quantity	Rate	Per	Amount	Total
Brick in Chunam Cft.		68¾	„ 3 „	cft	12 14 „	
Flooring with square bricks for the steps Sft.		30	„ 1 3 „	Sft	2 5 6	
Plastering with 2 coats of Chunam Sft.		1	2 4 „	„	2 4 „	
Fixing a wooden block in the wall with brick in Portland Cement.			2 „ „		2 „ „	
Teak wood wrought and put up Cft.		2¼	3 1 „	cft	6 14 3	
Cast iron brackets with pullies &c complete	2		5 „ „	each	10 „ „	
Galvanized wire rope lb		3	„ 4 „	lb	„ 12 „	
Weather board to protect the clock	1				31 4 „	
Window frame including glass Sft.		22	„ 12 „	Sft	16 8 „	
Small brass pullies with weights to support the glass face of the Clock when being wound					3 „ „	
Probable further expenditure in carrying out permanent arrangements for working the Semaphore by electricity say					50 „ „	
Contingencies at 5 per cent					7 2 3	
Total Estimated Cost Rupees						145 „ „

W C Baddeley Lieut R.E.
Ag. Genl Supdt P.W. Workshops.

Madras }
24th February 1879 }

No
22 4 79
Enc

Miss.

G.O. No 616 H – 28-2
79

No. 7926
Rec 10/4/79

Genl
Secy P.W. Dept

Proceedings of Govt.
No. 616 H dated 28th Feby 1879

Read again
G.O. No. 513 H dated 19th
February, 1879.

Read

From the Genl. Supt.
P.W. Workshops

(H.E. Lr. d/24th February, No. 4472)
(H.E. Lr. d/25th February, No. 4503)

Order thereon:

His Grace the Governor in Council considers that the clock should be connected with the motor observatory clock in the manner proposed in Mr Baddeley's letter of the 24th instant.

2. The approximate estimate of Rs 145 is sanctioned, and the Financial Dept will have the necessary

J.M.

J.P. 26/2

funds placed at the disposal of the Public Works Department; Rs 37 being provided, in addition to the above named amount, for Establishment charges.

WJ
26.2.79

This sanction has been registered as Provincial No. 1943 of 1878-79.

Estimate sent to the Exr. with Office note 7/4/79

Genl. Superintendent, S.W. Workshops Nos. Doct. 28-2-79.

Financial Department } Doct. 28-3-79.
Ex S.W. A

17

Mis 5738w 19-2-79
" 4421w. 16-2-79

Ca 27.2 R24

~~Cn 16916~~ ~~1724~~

Coll. of {1879} Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd. Encl.

3-5-79

G. O. 28 Feby 1879. No. 616 W

Nos. 284-285

Removing the Electrical Clock from the Observatory & fitting it up in the Master Attendant's Office Madras. Sanctions with remarks the approximate estimate of Rs 145 for —

6

Cn 77.2 R 3/2