GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st February 1881, No. 281 W.

General.
Account.

Read the following papers :—

No. 6. From the General Superintendent, Public Works Workshops, dated 27th October 1880, No. 2,024 W.

No. 6-A. From General J. Hyde, India Office, dated 10th December 1880.

No. 6-B. From the General Superintendent, Public Works Workshops, dated 21st January 1881, No. 2,681 W.

No. 7. ORDER THEREON, 1st February 1881, No. 281 W.

ON consideration of the estimates submitted from Home and from the Workshops at Madras for the two Cornish boilers required for working the punkah-pulling machinery at the General Hospital, the Government are disposed to allow the work to be carried out locally, where boilers can, it is stated, be turned out guaranteed to stand a pressure equal to that of the boilers tendered for from Home.

2. The estimate, amounting to Rs. 6,800, submitted by the General Superintendent of the Public Works Workshops is accordingly sanctioned for immediate execution, and funds will be provided from the Provincial assignment for next year.

3. This sanction has been registered as Provincial No. 77 B. of 1880-81 and classified as "Tools and Plant."

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

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

Exd. S. T. Austin.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1881} Madras.

PUBLIC WORKS.

To

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

&c., &c., &c.

Dated February, 1st.

Issued

Recd. *Encl.*

G. O., 1st February 1881, No. 281 W.

FEBRUARY.

Nos. 6-7.

Cornish Boilers for working the Punkah-pulling machinery at the General Hospital.—Estimate of Rs. 6,800, the cost of constructing two — by the Public Works Workshops, sanctioned..

Workshop

PUBLIC WORKS ~~STORE~~ DEPARTMENT,
Madras, 27th October 1880.

No. 2024 W

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS STORES AND WORKSHOPS,

To

THE *Chief Engineer*
P.W.D.
Madras

REFERENCE.— *letter No.* *dated*

SIR,

Enclosure

I have the honour to ask for sanction to manufacture two Cornish boilers about 17' long and 5 feet diameter for use with the Engine which works the punkahs at the General Hospital. The present boilers have been in use at the hospital for 5 years, and it is uncertain how long they were in use at the time.

2 The cost of the proposed new boilers will be about 7000 ℳ for the pair, and if put in hand shortly they will be ready to take the place of the old ones which should, I consider, be condemned at the end of the next punkah pulling season viz; 30th Sept 1881.

I have the honour to be,
Sir
Your most Obedient Servant
W.C. Buddeley Lieut R.E.
Guard Depôt. Supt. P.W. Workshops

directed to submit

Dy: W. ...

Please refer to 19.
of Financial Resolution
377 of 26 Mar. 72. and
the subsequent sanctions
in the P. W. Dept. all
sanctions in connection
with the General Hos-
pital are recorded
against Provincial.

R.S. 4/11.

...s Sanctive Ironworks
Hyde near Manchester
December 9th 1880.

...do
...office
...minister

...eg to hand you my
...on requisition for two
...ork daily at a pressure of
...tested before leaving my
...raulic force to 150 lbs
...tificate of same test
viz:-
...improved Cornish
... long 5'. 0" diam: having
...ns 2'. 6" diam: crossed
...lating tubes.
...gitudinal seams in
...le riveted. Ends in
...ace each and riveted
...ded angle rings, both
...rings having their edges
...h holes & flue openings
...alibr. All caulking
...ing edges of plates
...d corners planed by
...Machinery. Ends
...ayed to shell by Gussets
...red by double angle
...ts. Fireboxes made of
steel

P.W.D.
29OCT80

G.O. No 2649w - 26.6.78
Mis. 901 w - 29.3.80. ril
Gp. 1819w 80:7.80.
Mis. 2269w - 1.10.80. ril

Ch. No 2506/2507 of 15 Sept 80

From
The General Superintendent,
Public Works Stores,

To
The Chief Engineer
Bombay
Presidency

Dated 27
Received

1880.

No. 2024 Dr

Enclosure -

Subject-

Reports sanctioned
to manufacture 2 Cornish
Boilers for the Engine
which works the pumps
in the Jail Hospital Block
in Prisoners yard within
the Prison within

O.S.11.80.

G.O. No 2649w - 26.6.78
Mis. " 801 w - 29-3-80.
Gp. " 1819w 30-7-80.
Mis. 2269w - 1-10-80.

No. 2024 Dr
Enclosure -

Subject -

Expenses connected with manufacture 2 Cornish Boilers for use of the Engine which works the Pumps in the Jail Fortification Works for reasons given within

O.S.11.80.

copy.

Hyde Junction Ironworks
Hyde near Manchester
December 9th 1880.

General Hyde
India Office
Westminster

Dear Sir,

I beg to hand you my specification & estimate for two Boilers to work daily at a pressure of 80 lbs per □" tested before leaving my works by hydraulic force to 150 lbs per □" & certificate of same test given to you viz:-

Two improved Cornish Boilers 19.0" long 5.0" diam: having one flue 2.6" diam: crossed by two circulating tubes.

Longitudinal seams in shell double riveted. Ends in one solid piece each and riveted to solid welded angle rings, both ends and rings having their edges turned up in hatches & flue openings cut out in hatches. All caulking and fullering edges of plates planed and corners trimmed by our patent Machinery. Ends properly stayed to shell by Gunetts Stays & secured by double angle iron brackets. Fireboxes made of steel

steel plates & the remainder of Boiler of best selected flanging iron.

Flues made of solid welded rings of plates, having all the transverse joints made with the flange seam joints.

I also put in upon my patent principle being welded solid into ring of flue & thus forming a solid welded ring of flue & circulating tube

All holes in flues & angle rings drilled. There will be no rivets at all inside flues or fire boxes.

One round Wrot: Iron Manhole on top of boiler, having faced flange & cover & fitted with all bolts & nuts &c.

All bases for valves of Wrot: Iron or Steel. The following mountings supplied & fitted to position here (to each boiler). One 4" steam stogle & Antipriming pipe. One 2" check feed valve, & internal pipe. One 2" brass Blow off Tap, base & elbow pipe. One steam indicator, Cap & syphon. Two sets of brass water gauge cocks and glass tubes. One lever safety valve to blow off at 80 lbs. One pendulous dead weight safety valve to blow off at 80 lbs per □" One

one wrought iron fire front with air valves & baffle boxes fitted to C. I doors. One dead plate. One Bearing bar. One brickwall frame & door. One dust box & door. One damper & frame, pulley chain & weight. One set of fire bars. One set of floor plates & frames. All valve spindles coated with brass or brass entire ball joints faced.

For Boilers & mountings & foregoing specification delivered in London & mountings packed in cases the sum of Three hundred & thirty five pounds. £335. 0. 0

I am Sirs,
Your obt: Servt
(signed) Thomas Bailey

RECD 10 JAN 81

PWD 8201 3/431/89

India Office

10 December 1880

Dear Sankey

On receipt of your letter of 13th Nov. I wrote down to one of the best makers of Boilers of the class you want - The morning I have his reply which I enclose & price an Estimate for the Boilers delivered free on board ship, & to the Estimate I have added the sum disbursement & price cost of freight - which is added

This will give you a very exact Estimate of what the Boilers will cost you & you will for them an order of course ask other makers to compete. Makers soon find out when there is or is not competition & if there is not they at once put up their prices which they can not do against them when you want any thing or make your special instructions note and I will do my best for you. but remember

5 From the plan it will be seen that the boiler plates narrower than usual, owing to no suitable wider plates b

Estimate of the cost of the [illegible]

£ 5067/81

N.W. 1880 Dept

No " 8201

2
7431/81

narrower than usual, owing to no suitable wider plates being available in the Store, should however sanction be given for the manufacture of the Boilers I propose submitting an Indent

1/3067/81

Estimate of the cost of the 2. Boilers landed here &c.

Particulars	Amount
Cost of 2. Boilers	£3350 . .
Freight for — Do —	2000 . .
Exchange	913 6 7
Landing and running charges Bay	236 9 5
Total Rupees	6500

Wm Brodbelt
Lieut R.E.
Gun. Depot Bmy: Fort Monkey

Here are prices and prices according to quality of work stated on head Tenders for one article Power 750 ℔ Boylers 6000 ℔.

James Long Lieut
H Hyde

Probable amount of freight —
from £80. to £100. each Boiler

3 I also enclose a Plan and Section of the Boilers I propose to make up in the Workshop for use at the Jemrud Hospital and beg to submit the following report on the subject.

4 I can guarantee that the Boilers shall stand 150 lbs per square inch Hydraulic pressure, and with regard to their cost I would observe that the Estimate includes all Workshop percentages on labour and materials so that the actual cost to Government of the Boilers as made up here will certainly not exceed that of similar ones made in England after freight and landing charges have been added.

5 From the plan it will be seen that the boiler plates are narrower than usual, owing to no suitable wider plates being available in the Store, should however sanction be given for the manufacture of the Boilers I propose submitting an Indent for some wider plates which could now be advantageously procured

Directed

P.W. 431/81

PRESIDENCY PUBLIC WORKS WORKSHOPS,
Madras, 21st January 1881.

No. 2681 W.

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Chief Engineer
P.W.D.
Madras

SIR,

Enclosures.

1. Plan

With reference to your No. 24 of 8th January/81. I have the honor to enclose an Estimate of the cost of the Boilers landed here.

2. It will be observed that I have omitted "Insurance" as from the records of the Store Department it appears that it is not customary to insure Stores sent by the Secretary of State.

3. I also enclose a Plan and Estimate for the Boiler which I propose to make up in the Workshops for use at the General Hospital and beg to submit the following report on the subject.

4 I can guarantee that the Boilers shall stand 150 lbs per square inch Hydraulic pressure, and with regard to their cost I would observe that the Estimate includes all Workshop percentages on labour and materials so that the actual cost to Government of the Boilers as made up here will certainly not exceed that of similar ones made in England after freight and landing charges have been added.

5 From the plan it will be seen that the boiler plates are narrower than usual, owing to no suitable wider plates being available in the Stores, should however sanction be given for the manufacture of the Boilers I propose submitting an Indent for some wider plates which could now be advantageously procured

P. W. C. No. 431.

G.O. No. 2643 W. 26-6-78.
" " 1813 W. 30-7-80.
C.E. No. 2506 / 2507 13-11-80.
" " 24. 8-1-81.

Presidency P. W. Workshops.

From

THE GENERAL SUPERINTENDENT,
P. W. WORKSHOPS,
Madras.

To

The Chief Engineer
& S.W.
Madras

No. 2681 W.

Dated 21
Despd. 21 June 1881.
Recd. 24

No. OF ENCLOSURES. 4
+ 1 plan

Subject.

Forwards Estimate of cost of 2 Cornish Boilers to be landed here if required. with certain observations.

P. W. Secretariat.

C. No. 431.

Note by Budget Section.

Work	Remarks and References.
Constructing two Cornish flue Boilers for working the Punkah Pulling Machinery at the Genl Hospital	

Fund Provincial
Class Tools and Plant
Amount of estimate ... ... Rs. 6800
Expenditure in previous year ... ... " -
Allotment in current year ... ... " -
Balance required to complete ... ... " 6800

Total Rs. 6,800

Note of available funds.

Funds to be provided from the Provincial Revenue of 1881/82

BP

Budget Superintendent.

26/4/81

Note by Budget Section.

C29/1.

GOVT. OF MADRAS. } 188 . { P. W. DEPT.

SECRETARY.

Chepauk, 25th Jan 188 1.

OFFICE NOTE.

To W

From Sec. Supdt P.W. Stores re Do 268, W. of 21st Jan.

I assume that the Corniss Boilers can be procured from England at a cost, including freight, of £ 535, which at £1/7½ per rupee = R 6584.9.10 (not R 6263.6.7 as stated by Dr Bedderley) and with landing charges will amount in round numbers to Rs 6,800;

C & W

Do what with the cost to be debited ? Military ?

To Provincial which bears all charges in connection with the General Hospital. R/30

...ew insurance is provided,
...t if the boilers be not
...insured, the risk &
...loss must be taken into
...consideration -

...heit. As definite an
...timate is to precise of
the above sum, and
even if they cost a little
more it would be good
policy to employ the
ships, the establishment
in which has ble paid
whether they turn out much
work or little, rather than
set the boilers from England,
if quality could be
guaranteed -

L

Dr W

Assented

25/1/80

directed to submit
an estimate in a form
admitting of specific
sanction for entry in
the budget for 1880/82

L
5.11

D. W

Agreed - Please
ask for estimate ~~at~~ forward
and draft d/o note (for my signature when I
come down)
to Admiral Hoyle
Adv. Dept of Stores India
Office asking him to
furnish cost of such
boilers all told of
best English make
landed at Madras -
and time required
for execution of the
order

7/11/80

CHW

Order to for
Hoyle as proposed

L

and d.o.
to Jas Hoyle

No 2506

Memo

Letter No 2024 W dy 27 Oct 1880.

The Genl Supt P. W. Workshops is requested to submit an estimate of the cost of manufacturing the boilers in the shops with the view to specific sanction and for entry in the budget of 1881-82.

(By O)
Sy L.H.
Dy Cs

13 Nov 80

Genl Supt P. W. V Despd 12/11/80.
Instr R.

No 2507 D/o Letters.

To Genl H. Hyde R.E.
Director Genl of Stores.
India Office, London

Dear Hyde

We may possibly indent on England for two Cornish boilers about 17' long and 5' diameter for use with the engine which works the punkahs at the Genl Hospital at Madras. I shall be obliged if you can let me know the probable cost of such boilers all told of best English make, landed at Madras, and the time required for execution of the order.

Yours faithfully
Sy R.H. Sankey
Col R.E.
Secy to Govt PWD

13 Nov 80
Despd 18/11

6881

See G.O. 281 W/10 July 81

GOVT. OF MADRAS. } 188 . { P. W. DEPT.

SECRETARY.

Chepauk, 5th Nov. 1880

OFFICE NOTE.

To W—

From Genl Supt P.W. Stores & Workshops
No 2024 W. dy 27 Oct
1880 —

For orders —

It is most probable that the Provincial Revenue will be able to provide funds for expenditure on these boilers during the current year, and I would suggest that Lieut Baddeley be

No: 281 W.

Genl Secr

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 1st Feby 1881.

Read the following:—

From The Genl Supt P. W. Workshops (No. No. 2024 W dy 27th Octr/80)
Genl J. Hyde India Office — (— 10th Decr —)
The Genl Supt P.W. Workshops

C.A.W

Have refrained
please

11/5/81

to allow the work to be carried out locally, where Boilers can, it is stated, be turned out guaranteed

to stand a pressure equal to that of the Boilers tendered for from Home.

2. The estimate amounting to Rs 6,800 submitted by the General Supt. of the P. W. Workshops is accordingly sanctioned for immediate Execution and funds will be provided from the Provincial assignment for next year.

3. This sanction has been registered as Provincial No 77 B. of 1880-81 and classified as "Tools and Plant."

27/1

Attt

27.1.81

Gen. Supt P.W.W. with tracing 4/0

Exr. P.W. Accts. with ictd

Public Dept. ✓

desd 8-2-87 21

Fd.D. C.27.1 R.1.2.

431

Govt. of {1881} Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd. *Encl.*

G. O., 14 July *1881, No.* 281W.

Nos. 1-7

Cornish Boilers for working the Punkah Pulling Machinery at the General Hospital

Estimate of Rs 6,800 the cost of same to be borne by the P.W. Works sanctioned.

38/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

7th September 1881, No. 2,221 W.

General.
Account.

Read the following paper :—

No. 84. From the Superintending Engineer, Third Circle, dated 22nd August 1881, No. 368 T.N.

No. 85. ORDER THEREON, 7th September 1881, No. 2,221 W.

OF the sum of Rs. 30,000 surrendered in the letter recorded above, from the amount appropriated in the current year's Provincial Budget for the Palamcottah Jail, Rs. 20,000 have already been transferred to the Government House buildings at Ootacamund in G.O., No. 2,108 W., of 25th August 1881. The balance, Rs. 10,000, is now credited to the Reserve.

2. The following allotments are made from the Provincial Reserve :—

		Rs.
I.	Two Cornish boilers for working the punkah-pulling machinery at the General Hospital, Madras, G.O., No. 281 W., dated 1st February 1881	6,800
II.	Minor Works under Civil Buildings, North Arcot Division ...	315
III.	Do. do. Cuddapah Division ...	1,300
IV.	Printing certain Code Forms, G.O., No. 2,052 W., of 19th August 1881	349
V.	Minor Works, Civil Buildings, West Coast Division, G.O., No. 1,623 W., of 30th June 1881	769
VI.	Repairs, Civil Buildings, Trichinopoly, G.O., No. 2,143 W., of 29th August 1881	200
		9,733

3. The allotments made for Items II and III are to cover the outlay that may be incurred on the construction of the quarters for the Sub-Magistrate at Venkatagiri, under G.O., No. 1,778 W., of 19th July 1881, and for furniture required for seating the congregation and for lighting the church at Cuddapah, under G.O., No. 1,982 W., of 10th August 1881.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, First Circle.
" " " Second Circle.
" " " Third Circle.
" General Superintendent of Public Works Stores.
" Examiner of Public Works Accounts.
" Revenue Department.
" Judicial Department.

Exd. S. T. Austin.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1881} Madras

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
FIRST CIRCLE,
&c., &c., &c.

Dated September, 7th.

Issued

Recd. Encl.

G. O., 7th September 1881, No. 2,221 W.

SEPTEMBER.

Nos. 84-85.

Palamcottah Jail.—The sum of Rs. 30,000, surrendered from the appropriation for the —, transferred to other works.

PRESIDENCY PUBLIC WORKS WORKSHOPS,
Madras, 10th Feby 1882.

No. 284/ W.

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Deputy Chief Engineer
P.W.D
Chepauk.

SIR,

Enclosures.

With Reference to G. O. No 281 W of 1st February 1881, I have the honor to report that the boilers for the General Hospital cannot be commenced until next official year as the Lowmoor plates have not yet arrived.

I therefore beg to Surrender the allotment of Rupees 6000-- --

From the Invoice of the Lowmoor plates I find that the cost of the boilers will be excessive if the original design is adhered to, and therefore I propose to reduce the Size of the boilers from 18 to 12 H.P and I will Shortly Submit the revised plan and Estimate.

It is usual to use Lowmoor plates for the fire box only of Cornish boilers, but Considering that these boilers will be worked in the Centre of the General Hospital it will be far more Satisfactory to Construct them entirely of Lowmoor plates, which are of guaranteed quality.

I have the honor to be
Sir
Your Most Obedt Servant
[illegible] Lieut R.E
Dpty Supdt P.W. Workshops

Dft 13/2

Presidency P. W. Workshops.

From P. W. C. No 925

THE GENERAL SUPERINTENDENT,

P. W. WORKSHOPS,

MADRAS,

To

THE .....

.....

.....

No.

Dated ..... } February 1882.
Despd. .....
Recd. 11

ENCLOSURES.

Subject.

GO 281 Br. 1.2.81
2221 Br. 7.9.81.

B.C.
Cash to be drawn by the Purchase Indent will be issued [illegible]

No. 418 W.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 15th February 1882

Read the following :—

From The General Supdt P. W. Workshops (MR) No 2841 W dd 10 Feby 82

The sum of Rs 6800 appropriated from the Provincial Reserve in G.O. No 2221 W dated 7th Sept 1881 for two Cornish Boilers for working the punkah pulling machinery at the General Hospital will be recredited to that head.

2. The revised plan and estimate for the Boilers are awaited.

CH 13.2.82

Civil Supdt P. W. Workshops ✓
Asst P. W. Accts ✓
Public Dept ✓
CH 13/2

Despatched 16-2-82

B. No. 418 W. d/ 15th. Feby 1882

Sou/2 Entd. in Receipt Regr.