M.R.O. 1—10,006—28-2-50.

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 2865/66 Press Miscellaneous

B.P.—No.—

Dated 26-10-1876 —195—.

Not to be folded or roughly handled

No. 416. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 14th October 1876, No. 496:—

I HAVE the honor to submit, for the sanction of the Government of India, the accompanying Indent* on the Board of Directors of the South Indian Railway Company for certain plant required in the workshops at Negapatam, the approximate cost being Rupees 5,028.

* No. 128, dated 19th September 1876.

2. In forwarding the Indent the Locomotive Superintendent thus explains the necessity for incurring this expenditure:—"The increased mileage and, consequent thereon, the increased number of vehicles and engines has now tested the capability of the shops here to keep up the supply of work required to be turned out. I find I am under-powered in certain classes of machines. I attach hereto a list showing my reasons for the request and also a form of Indent, filled in, upon the Board:—

"*Screwing Machine.*—I have only two, and they cannot turn out the work fast enough having engine and wagon work to do; I have no machine that can screw the metre gauge buffer-rod ends and draw-bar ends, this is now being done by lathes, robbing me of their use.

"*Hydraulic Press.*—My broad gauge machine will not take the metre gauge wheels, the cast iron head of the press is too broad to allow of the tension bars coming in close enough to go through the spokes of the metre gauge wheel. I have wheels I want off their axles and cannot remove them without a suitable hydraulic press.

"*Magnetic Brass Cleaner.*—This machine is a great saving of time and labor as cleaning brass filings and cuttings, freeing them from bits of iron and steel; old cuttings and filings are swept up from under machines and the shop floors and used again in the melting pot; hand labor cleans the cuttings now. I have over a ton of filings stored which will accumulate with extra work.

"2. *Thomson and Sterne's Emery Wheels.*—This machine saves an infinity of time and labor in roughing up work from the smithshop which has now to be done by hand, taking time and destroying number of files.

"*Steam Gauge Testing Machine.*—This machine needs no explanation. I have no means at my command for ascertaining the correctness of engine steam gauges.

"12. *Patent Tool-holders and Grinders for lathe tools.*—This is an appliance I saw at Perambore the other day, it enables simple round rod and steel to be used in a lathe as a cutting tool, which is a great saving in time and money; at present I have a smith and striker and a fitter entirely employed on lathe tools in addition to the time lost by the lathe worker, in going away to the grind-stone to sharpen his tool. This machine makes a better tool and saves all these men's time."

3. Mr. Sheward has further reported, in reply to an inquiry by the Agent, as under:—"The requisition for plant that accompanied my No. 3,019 is supplemental to the existing plant in the general shops here. It must be remembered that my present stock of tools was considered equal to the upkeep of the stock upon 168 miles of open line, and by the 1st of January next I shall have the heavy repairs upon 425 miles

of open line coming in here. My previous indents for plant may be considered as requirements only for running repairs. My broad gauge hydraulic is unsuited for metre gauge wheels. The other machines are essential to expedite the out-turn of work."

No. 417. ORDER THEREON, 26th October 1876, No. 2,865.

RAILWAY, No. 31.

ORDERED that the Indent be forwarded to the Government of India.

(Here enter No. 2,866, dated 26th October 1876.)

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Consulting Engineer for Railways.

Exd. S. T. Austin.
Spare Copies

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 26*th October* 1876.

No. 418.

No. 2,866.

FROM

MAJOR-GENERAL G. W. WALKER, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

RAILWAY, No. 31-A.

SIR,—I am directed to forward herewith an Indent on the Board of Directors of the South Indian Railway for machinery required in the Workshops at Negapatam, and to recommend that sanction to its transmission home for compliance may be granted under the explanations afforded in the accompanying letter from the Consulting Engineer for Railways.

I have the honor to be,
Sir,
Your most obedient servant,

Major-General, R.E.,
Secretary to Government.

Exd. S. T. Austin.
Spare Copies

RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 14th October 1876.

No. 496.

From

LIEUT.-COLONEL J. H. M. SHAW-STEWART, R.E.,
Consulting Engineer for Railways,

To

MAJOR-GENERAL G. W. WALKER, R.E.,
Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

I have the honour to submit for the sanction of the Government of India the accompanying indent on the Board of Directors of the South Indian Railway Company for certain plant required in the Workshops at Negapatam, the approximate cost being Rs. 5028.

2. In forwarding the Indent the Locomotive Superintendent thus explains the necessity for incurring this expenditure: —

"The

× No. 128 dated 19th September 1876.

"The increased wages and conse-
"quent Increase in incessed cost
"of articles and expense in con-
"ducted the impossibility of the Estab-
"lishment to keep upto the quality of work
"required to be turned out. I find
"I am under powered in certain
"classes of machines. I attach code
"a list shewing my present Horse
"Power and also a form of indent
"filled in upon the Board.
"Screwing Machines. I have only two
"and they cannot turn out the work
"fast enough having engines and wages
"work to do 24 hours per machine.
"That can screw the Motor Gauge Sup-
"-ports both ends and turn both ends.
"This is now being done by hand.
"Nothing more of this sort.

"Hydraulic Press. My Broad Gauge
"machines will not take the Metre
"Gauge wheels; the cast iron head
"of the press is too broad to allow
"of the tension bars coming in
"close enough to go through the
"spokes of the Metre Gauge wheels.
"I have wheels I want off these
"axles and cannot remove them
"without a suitable Hydraulic
"Press.

"Magnetic Brass cleaner. This ma-
"-chine is a great saving of time
"and labour in cleaning brass
"filings and cuttings freeing them
"from bits of iron and steel old
"cuttings and filings are swept up
"from under machines and the
"shop floors and used again in
"the melting pot by hand labour cleaning

"the

"the cuttings round. Of have seen a
"few of filings which which will
"accumulate with certain work.
"2. Foreman and Stevens Emery wheel.
"This machine saves an infinity of
"time and failure in roughing off
"work from the Smithshop which
"has now to be done by hand —
"taking time and destroying num-
"-bers of files.
"Steam gauge testing machine. This
"machine needs no explanation. Of
"have no means at my command
"for ascertaining the correctness of
"engine steam gauges.
"12. Patent tool holders and grinders
"for lathe tools. This is an appli-
"-ance I saw at Crambore the
"other day it enables simple round
"rod and steel to be used in the
"lathe

"lathe as a cutting tool which is
"a great saving in time and money
"at present I have a smith and
"striker and a fitter entirely em-
"-ployed on lathe tools in add-
"-dition to the time lost by the
"lathe workers in going away to the
"grind stone to sharpen his tool —
"This machine makes a better tool
"and saves all these mens times.
"Mr Steward has
3. "
"further reported in reply to an
"enquiry by the Agent, as under,
"The requisition for plant that ac-
"-companied my No 2019 is sup-
"-plemental to the existing plant
"in the general shops here. It
"must be remembered that my
"present stock of tools was con-
"-sidered equal to the upkeep
"of

of the stock upon the main of
open line, and by the 1st of
January next, it shall then
the Sleepers remain upon 420 miles
of open line, coming in generally
previous Contracts for Plant may
be considered as requirements only
for running repairs. Fifty Wrought
Iron Plate Turntables in accordance with
Iron Frames Plates which Plan
other machines now essential
to expedite the out-turn of work.
Should the Contractor be
Sir
Your most obedient servant
Thomas Brassey Esq.
Contracting Engineer for Railways.

P.W.D.
16.10.76
7188

Railway Department.

From

The Consulting Engineer
for Railways,

To

The Secretary to Government,
P. W. Department,
Fort Saint George.

Dated 14th Oct. 1876.
Received 16th Oct. 1876.
No. 496.

Submitting the Indent of the Chief Engineer of the Madras Railway Company for the supply of Machinery required in connection with the Railway.

No. 1.

Cir 23-10-76.
Resp 2 to Ag-16-10-76

Public Works Department.

No 2865

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 26 Oct 76

Read the following :—

From

The Consg. Engr for Rys: (R.C. No 496 d/14th Octr 876)

Ordered that the Indent be forwarded to the Government of India.

(R.C. No 2866 d/ 26 Oct/76)

To, The Secy: to the Govt of India

Sir,

I am directed to forward herewith an Indent on the Board of Directors of the South Indian Railway for machinery required in the

Consg. Engr for Rys
Resp 2- 11-76

the Workshops at Negapatam, and to recommend that sanction to its transmission home for confirmation may be granted under the explanations afforded in the accompanying letter from the Consulting Engineer for Railways

24

817 - 1876

Rin 23-10-76

1438

Govt. of Madras.

PUBLIC WORKS.

To The Secy Govt of Madras

28

Dated

Recd

Read. Encl.

G. O. 26th October No. 2865-2866

Nos. 216/4

Machinery required for Workshops at Chepauk

Colonel Keatinge to be furnished with a statement of machinery required for the Workshops at Chepauk, and to submit estimate for completion of same within one month from date hereof.

Forwarding an indent for machinery required for the Workshops at Chepauk, and to submit estimate for completion of same.