

(1) Number of pages 4

(2) Date of repair 18/11/57

(3) Initials of the Referencer [Signature]

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

C.O. No.	<i>106</i>	Press
		Mis.
Dated	<i>18/11/57</i>	18

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 22nd March 1859.

No. 110. Read the following letter from Colonel C. E. FABER, Chief Engineer ; to J. D. BOURDILLON, Esq., Secretary to Government, dated 17th March 1859, No. 8721.

SIR,

With reference to Extract Minutes Consultation of the 10th March 1859, No. 530, requiring me to report on the proposition, which was approved of in Extract Minutes Consultation, in the Military Department, of the 4th Idem, for putting up the Engine and Boiler of the Government Printing Press in the Grand Magazine, I have the honor to refer to my letter of the 8th Instant, No. 8410, submitting a Report of a Committee, which having assembled by my order to take into consideration Mr. Smith's Memorandum of the 13th January 1859, on the prevention of danger from sparks, by making the Furnace of the Boiler consume its own smoke, likewise turned its attention to the question of how most judiciously and advantageously to place the Machinery, and after an inspection of the ground, and of the buildings, gave its opinion, that the Engine should be put up in the small room available for the purpose next the Printing Office, and that the Boiler should be placed a few feet outside, under a small shed erected for the purpose.

2. Considering this an excellent arrangement, inasmuch as, while it involved no modification of the Machinery, except some slight and easily effected alterations of the steam and feed pipes, it allowed the Engine to be set up at once, in such a position as to act directly on the shafting transmitting motion to the Presses, and the Boiler to be conveniently placed for the supply of steam, without discommoding by the generation of heat or smoke, the adjoining rooms of the Government buildings, I fully and heartily concurred with the views of the Committee, and recommended that the house for the Boiler and the chimney, with their connecting underground flue, should be begun without further delay.

3. It is therefore scarcely necessary to add, that I am not of opinion that a suitable position for the Engine and Boiler can be found in the Magazine, which is so far from, and so situated, with reference to the Printing Room, that to transmit motion to the Presses will require a vast extension of shafting, and the introduction of a complicated system of bevelled wheels, while it is not so far removed as to allow of the flue being carried up into the open air, either by means of a masonry chimney, or an Iron funnel, without causing great annoyance. An under-ground Tunnel, in connection with a detached lofty chimney, to carry off smoke and hot air as far as possible, seems indispensable ; and all that would be saved, by making use of the Magazine, would therefore be merely the cost of the small shed over the Boiler, required by the Committee's plan, which saving would be more than counterbalanced by the expense of additional shafting, Cog-wheels, &c., and that of such alterations as might be required for the admission of light and air into the Magazine, and the junction with it of the requisite external flue.

No. 111. ORDER THEREON, No. 662 ; dated 21st March 1859.

Referred to the Military Department with reference to Extract Minutes Consultation in that Department, dated 4th March 1859 and to Extract Minutes Consultation in the Public Works Department, dated 19th March 1859 No. 646.

(Signed) W. C. SIM,

Actg. Dy. Secretary to Government.

42 8721

Central Office of W.
Fort Saint George,
17th March 1859.

From

The Chief Engineer,
D. I. W.

Public

To

The Secretary to Government.
P. W. D.

Sir,

With reference to S. I. C. of the
10th March 1859, No. 580, requiring me
to report on the proposition, which was
approved of in S. I. C. in the Military
Department, of the 4th Idem, for putting
up the Engine and Boilers of the Govern-
ment Printing Press in the Grand
Magazine, I have the honor to refer to
my letter of the 8th Instant, No. 8410, sub-
mitting a report of a Committee, which
having assembled by my order to take
into consideration Mr. Smith's Memorandum
of the 13th January 1859, on the prevention
of dangers from sparks, by making the
furnace

furnace of the boiler consumes its own
smoke, likewise turned its attention
to the question of how much judiciously
and advantageously to place the machi-
nery, and after an inspection of the
ground, and of the buildings, gave its opi-
nion, that the Engine should be put up
in the small room available for the
purpose next the Printing Office, and
that the boiler should be placed a few
feet outside, under a small shed erected
for the purpose.

2. Considering this an excellent
arrangement, inasmuch as, while it
involved no modification of the machi-
nery, except some slight and easily effected
alterations of the Steam and feed pipes, it
allowed the Engine to be set up at
once, in such a position as to act directly
on the shafting transmitting motion to
the presses, and the boiler to be conveniently
placed for the supply of Steam, without
discommoding, by the generation of heat
or smoke, the adjoining rooms of the Govern-
ment buildings, I fully and heartily
concurred with the views of the Committee,
and

and recommended that the house for
the Boiler and the Chimney, with
their connecting underground flue,
should be begun without further delay.

3. It is therefore scarcely necessary
to add that I am not of opinion that
a suitable position for the Engine and
Boiler can be found in the Magazine,
which is so far from, and so situated,
with reference to the printing room, that
to transmit motion to the Presses will
require a vast extension of shafting, and
the introduction of a complicated system
of bevelled wheels, while it is not so
far removed as to allow of the flue
being carried up into the open air, either
by means of a masonry chimney, or an
iron funnel, without causing great
annoyance. An underground tunnel,
in connection with a detached lofty
chimney, to carry off smoke and hot
air as far as possible, seems indispen-
sable, and all that would be saved,
by making use of the Magazine, would
therefore be merely the cost of the small
shed over the Boiler, required by the Com-
mittee's plan, which saving would
be more than counterbalanced by the
the

the expense of additional shafting
of wheels &c, and that of such altera-
tions as might be required for the
admission of light and air into the
Magazine, and the junction with it
of the requisite external flues.

I have the honor to be
Sir,

Central Office 10th,
Fort St. George,
17th March 1859.
Yours most Obedt. Servant.
W. B. Colver Colonel.
Chief Engineer

