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G

MADRAS RECORD OFFICE.

Government of Madras.

Public Works

DEPARTMENT.

C. S.

10-2-1939

G.O. No.

316

Press

Mis.

119-20

Dated

8-12-38

1860

Not to be folded or roughly handled

18

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

No. 119. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer ;
to the Secretary to Government, dated 24th January 1860, No. 9506.

Having received replies from the District Engineers per margin, to my circular furnishing
them with a copy of the Proceedings of Government, No. 2032, under
date 25th August 1859, I have the honor herewith to transmit these
communications for the information of Government.

Górávari.
Krishna.
Nellúr.

South Arcot.
Coimbatúr.

2. The first point upon which Government desire to be informed, viz. "what is the smallest number of copies for which lithographing is cheaper than "copying by hand," has not been noticed by any of the above officers, so that without having reference to the special requirements of any particular district, I consider 10 to be the lowest number, and that when from that number up to 50 copies of a not very elaborate map or plan are required for immediate circulation in the district, for facilitating the execution of public works, it might be advantageous to allow the District Engineer to throw off the quantity he requires from his lithographic press, provided that the same can be worked by his ordinary office establishment without the assistance of an extra hand for that special purpose. For a smaller number of copies, and for trifling pieces of work, hand copying is more economical, while for a larger supply, and for intricate plans and maps, recourse should be had to this office, the lithographic establishment attached to which is perfectly competent to undertake, in addition to its current duties, such work from the districts.

3. With regard to the second point, viz. "what numbers are now made of the various "maps and plans prepared in a District Engineers' office," the various officers report as follows:

Captain Rundall states that 100 copies of the district map, (showing all the canals of irrigation and navigation), on the twomile scale have been struck off, also 50 copies of sections of the anicut, for registering the height of water, and 200 copies of various sorts of plans.

Górávari.
Letter dated 24th Oct. 1859, No. 102.

That 15 days is the time that would be occupied in copying by hand each district map, while the 100 copies were thrown off in 10 days.

Upon the completion of the revenue survey sheets, each officer and subordinate will be furnished with a map of that portion of the district under him, in order that he may supply the revenue authorities with correct information as to the fields irrigated or the crops grown thereon. As fresh maps will probably be needed every year, a lithographic press will be useful for their multiplication.

Captain Rundall further says, that he is not aware of having applied for the maintenance of his press, but merely for a larger store if such were available. It would, however, appear that the printing, instead of the lithographic press, was intended in the order of Government.

I find that this office can supply his wants.

Captain Chambers reports that from his press is issued monthly a section of the rise and fall of the river, and one or more plans, sketches, maps or surveys; 12 copies of each sketch are generally struck off for distribution amongst the Executive officers; the Collectors of Masulipatám and Guntúr, and the subordinates to whom they may be useful, also for record in his own office. The last map thrown off was that of the irrigation of the 2nd range in Guntúr, consisting of six sheets, besides what is mentioned above, a great deal of work is done in the way of cheques, forms, envelopes, copies of circulars from the Chief Engineer and others. From this press has also been issued 50 copies of the catalogue of the Government library at Bezórá, a book of 30 pages. All this has been done without incurring any expense beyond the cost of the paper. Captain Chambers admits that certain things could be better done at Madras or Masulipatám, but at greater expense, and without the punctuality that now prevails.

Krishna.
Letter dated 17th Sept. 1859, No. 106.
Now to the Collector of Krishna district.

36

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

Regarding the specimen plan sent by Captain Chambers, he says that his object is to produce an article of practical utility, and that he does not aim at excellency of finish, for which reason foolscap, as it will stand the wear and tear of field use, is sometimes used instead of thin papers.

Captain Mullins up to the date upon which he wrote (14th September 1859), had been prevented by various causes from giving his press the trial necessary to enable him to speak from experience of its use. He intended to apply it to the following purposes :

1st. To furnish all subordinates with copies of standard plans for all works in common use in the district to the number probably of 50.

2nd. To supply the above members of the department, with working drawings of masonry works for distribution to the immediate superintendence thereof. These will amount to between 350 and 400 per annum.

3rd. To prepare diagrams for insertion with letter press instructions in the District Gazette.

4th. To furnish subordinates in charge of taluqs, or portions of them, with maps (on the one inch scale), of their charges.

The issue of the Trigonometrical survey sheets on the one inch scale, Captain Mullins proceeds to say, will possibly afford the means of supplying subordinates with better maps than a district lithographic press could, but should the former be long delayed, or not issued at all, the latter will enable much valuable information to be collected.

Captain Foord refers to his former letter, which was communicated to Government in No. 3260, from this office, dated 29th July last, regarding the various plans that have been thrown off at his press, and states that 30 copies of each map or plan is a sufficient number to supply one to each of his subordinates. His press is worked at the cost of only the paper and ink, and as it is likely to be very useful at so small a cost, he recommends its continuance.

Mr. Fraser says that as regards plans, it is rarely that more than one copy is needed, and if more were required, he would prefer sending the plan to the Central office to be lithographed, rather than attempt doing it himself.

4. With reference to the last point concerning which Government desire to be informed, viz. "what number of (maps and plans) could be usefully disposed of if they could be made at merely the cost of the paper and press work," none of the District Engineers have answered the enquiry, and it is scarcely possible for me to state precisely what number of copies could be usefully disposed of. That must depend upon the subject of the map or plan, and also upon the requirements of the district in which they are to be circulated; but I consider that in most cases as many as from 20 to 30 copies of a plan prepared in the district office, (particularly that of a standard work), could be most usefully disposed of in circulation to the various members of the department.

No. 120. ORDER THEREON, 8th February 1860, No. 316.

The correspondence on this subject appears to have originated in an order of Government dated 27th September 1856 No. 1751. From the several letters from the Chief Engineer and the orders of Government thereupon, marginally noted, it is observed that information regarding the desirability of extending the use of lithographic presses, to other districts, details as to the work done, expenses incurred, new presses required, and their description, necessity for them in respect to plans, &c., &c., has been slowly accumulated.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

2. In their order* of 25th August 1859 No. 2032 Government pointed out that the information called for in their previous orders as to

* On letter from Chief Engineer dated 29th July 1859 No. 3260. the extent to which the presses already supplied had been made use of in multiplying copies of plans and maps, was not given "with sufficient fulness or detail to enable the Government to judge of the propriety of supplying more presses" and the Chief Engineer was "requested to report, more exactly on the uses of a lithographic press to a District Engineer" stating

(1st.) The smallest number of copies for which lithographing is cheaper than copying by hand.

(2nd.) What numbers are now made of the various maps and plans prepared in a District Engineer's office.

(3rd.) What number could be usefully disposed of if they could be made at merely the cost of the paper and press work.

3. In his letter recorded at the head of these Proceedings the Chief Engineer supplies to some extent the information required.

4. He submits five original letters from those District* Engineers who have been already supplied with presses and the Government observe with regret that, of the three simple questions propounded,† these officers have only considered one, viz. the 2nd, leaving the other two totally unnoticed—indeed it may be remarked that the District Engineer of Coimbatūr has not answered any, and has besides by neglecting to reply to the Chief Engineer's circular for a space of nearly four months caused a similar delay in the submission of the Chief Engineer's report.

5. With regard to the first point Colonel Bell is of opinion that (10) ten is the lowest number of copies for which lithographing would be cheaper than copying by hand: that if from that number to fifty of a not very elaborate plan or map are required for immediate circulation in the district, it might be advisable for the District Engineer to strike them off at his press—provided no expense is incurred besides that of his ordinary establishment: that hand copying is more economical if a smaller number is required: and if a larger supply of plans, &c. of an intricate nature should be wanted, the work should be undertaken by the lithographic establishment at the Central office.

6. The information on the 2nd point as derived from the three districts noted‡ in the margin goes to show that from 12 to 100 copies of a variety of plans and maps have been struck off for distribution in the department; and this has been done at a very small cost, (at the expense only of ink and paper in the two latter districts) and that great benefit has accrued thereby in economy of time and labor. In Nellūr no trial has yet been made of the press from a variety of causes; and the Coimbatūr District Engineer gives an opinion adverse to the employment of lithographic presses in the interior, and would rather have every thing done at the Central office.

7. On the third point Colonel Bell cannot give any very precise opinion; he thinks however that from 20 to 30 copies of a plan could be usefully disposed of, particularly if it was of a standard work.

8. The Government are not of opinion that the report of the Chief Engineer is sufficient to induce them to apply for the lithographic presses, referred to in the letters noted in the margin, for eleven other districts. It is very evident that they can be made great use of if the District Engineer takes sufficient interest, as in the cases of the three districts mentioned at the beginning of paragraph 6 supra; it is to be observed that the question has a different aspect from that which it had when first started, and that as forms and statements will be more easily done at the Government or Collectorate presses, and as lithographic work of

Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.

any intricacy is recommended by Colonel Bell to be made over to the Central establishment there is really very little left to be done at a district lithographic press. The Government are therefore not prepared to apply for so many as eleven presses and they request Colonel Bell will now recommend a supply for those districts where he is of opinion they are most wanted, and where there is a person already on the establishment who is acquainted with the working of such an instrument or is likely soon to acquire such knowledge.

9. The Chief Engineer may at his option transfer the press now at Coimbatūr where it is evidently useless to some other district where it is likely to be better appreciated.

(Signed) C. G. MASTER,
Dy. Secretary to Government.

Public

Incl: 5
5 Dist. Letters

Godavari
Kistna
Myllore
South Arcot.
Noyamuttur

Krishna
Trichin
Coimbatore

Central Office P.W.
Sipahkhan 22 January 1860
N^o 9576

From
The Chief Engineer
To

The Secretary to Government
P.W.

Sir.

Having received replies from the District Engineers per margin to my Circular furnishing them with a copy of the Proceedings of Government N^o 2032 under date 25th August 1859, I have the honor herewith to transmit these communications for the information of Government.

The first point upon which Government desire to be informed, vizt. "what is the smallest number of copies for which lithographing is cheaper than copying by hand" has not been noticed by any of the above Officers, so that without having reference to the special requirements of any particular District I consider 10 to be the lowest number, and that when from that

measured

that number up to 50 copies of a not very elaborate map or plan are required for immediate circulation in the District for facilitating the execution of Public Works, it might be advantageous to allow the District Engineer to throw off the quantity he requires from his lithographic Press, provided that the same can be worked by his ordinary Office Establishment without the assistance of an extra hand for that special purpose. For a smaller number of copies, and for trifling pieces of work, hand copying is more economical, while for a larger supply, and for intricate Plans and Maps, recourse should be had to this Office, the Lithographic Establishment attached to which is perfectly competent to undertake in addition to its current duties such work from the Districts.

3 With regard to the second point viz. "what numbers are now made of the various maps and Plans prepared in a District Engineers Office" the various Officers

Godavari
Letter of 24 Oct/77
A/102

Officers report as follows.

Captain Rundall states that 100 copies of the District Map (showing all the Canals of Irrigation and Navigation) on the 2 mile scale have been struck off, also 50 copies of sections of the Annicut, for registering the height of water, and 200 copies of various sorts of Plans.

That 15 days is the time that would be occupied in, copying by hand each District Map, while the 100 copies were thrown off in 10 days.

Upon the completion of the Revenue Survey sheets, each Officer and Subordinate will be furnished with a Map of that portion of the District under him in order that he may supply the Revenue Authorities with correct information as to the fields irrigated or the crops grown thereon. As fresh Maps will probably be needed every year, a Lithographic Press will be useful for their multiplication.

Captain

mevco

th Captain Randall further
it says that he is not aware of having
in applied for the maintenance of his
Press, but merely for a larger store if
such were available. It would however
appear that the printing, instead of
the lithographic press, was intended
in the order of Government.

I find that this Office
can supply the want

Captain Chambers re-
ports that from his Press is issued
monthly a section of the rise and
fall of the river, and one or more
plans, sketches, maps or surveys - 12
copies of each sketch are generally
struck off for distribution amongst
the Executive Officers - the Collectors
of Masulipatam and Guntur and
the Subordinates to whom they may
be useful - also for record in his own
Office - The last map thrown off
was that of the irrigation of the 2nd
range in Guntur, consisting of 6 sheets.
Besides what is mentioned above, a great
deal of work is done in the way of
cheques, forms, envelopes, copies of

Distric
Letter of 17 Sept
1859 A 106

Now to the Collec
tor of District
District

of Circulars from the Chief Engineer
and others - From this Press has also been
issued 50 copies of the catalogue of the
Government Library at Bazaarah a
book of 30 pages - all this has been done
without incurring any expense beyond
the cost of the paper - Captain Chambers
admits that certain things could be better
done at Eludras or Masulipatam; but at
greater expense, and without the punctuality
that now prevails.

Regarding the specimen plan
sent by Captain Chambers, he says that
his object is to produce an article of
practical utility and that he does not
aim at excellence of finish - for which
reason foolscap, as it will stand the
wear and tear of field use, is sometimes
used instead of thin papers -

Vellore
Letter of 11 Sept
1859 A 2086

Belin

Captain Mullins up
to the date upon which he wrote (14th Sept
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the experience of its use. It is intended to apply it to the following purposes.

1st to furnish all Subordinates with copies of Standard Plans for all works in common use in the District to the number probably of 50.

2nd to supply the above Members of the Department with working Drawings of masonry works for distribution to the immediate superintendents thereof. These will amount to between 350 and 400 per annum.

3rd to prepare Diagrams for insertion with letter press instructions in the District Gazette.

4th to furnish Subordinates in charge of Taallukhs, or portions of them, with Maps (on the 1 inch scale) of their charge.

The issue of the Triangulation Survey sheets on the 1 inch scale

Captain Mullins proposes to say will possibly afford the means of supplying Subordinates with better maps than

a District Lithographic Press established, but should the former be long delayed, or not issued at all, the latter will enable much valuable information to be collected.

South Creek.
Letter of 22nd Sept
1859 No 113

Captain Ford refers to his former letter which was communicated to Government in No 3260 from this Office dated 29th July last, regarding the various plans that have been thrown off at his press, and states that 30 copies of each map or plan is a sufficient number to supply one to each of his Subordinates. His Press is worked at the cost of only the paper and ink, and as it is likely to be very useful at so small a cost he recommends its continuance.

Hoyamuttur
Letter of 14th Jan 1860
No 246

Mr. Fraser says that as regards Plans it is rarely that more than one copy is needed, and if more were required he would prefer sending the Plan to the Central Office to be lithographed rather than attempt doing it himself.

4. With reference to the last point concerning which Government desire to be informed, viz. "what number of (maps and plans) could be usefully disposed of if they could be made at merely the cost of the paper and press-work", none of the District Engineers have answered the inquiry; and it is scarcely possible for me to state precisely what number of copies could be usefully disposed of - that must depend upon the subject of the map or plan, and also upon the requirements of the District in which they are to be circulated; but I consider that in most cases as many as from 20 to 30 copies of a plan prepared in the District Office, (particularly that of a standard work) could be most usefully disposed of in circulation to the various members of the Department.

I have the honor to be,
Central Office of the
Staff Room -
24th January 1860.
Yours most Obedt.
A. Lell St (Colonel)
Chief Engineer

Mcurre

No 316.

Proceedings of the Madras Govt.
Under date the 8th Feb/56.
Read the following
letter from Lt. Col. J. H. Bell
Chief Engr.

Submitting further details regarding the employment of Lithographic Presses by certain District Engineers. (Here enter 2, Jan/56. 950)

[Signature]
He

The correspondence on this subject appears to have originated in an order of Govt. dt 24th Sep/56. No 1751. From the several letters from the Chief Engr. & the order of Govt. thereupon, marginally noted, it is observed that information regarding the desirability of extending the use of Lithographic Presses, to other districts, details as to the work done, expenses incurred

- From Ch. Engr. 31st Oct/57. No 1751
Order thereon 18th Jan/58. No 60
- " Ch. Engr. 25th Sep/58. No 4018.
Order thereon 29th Nov/58. No 2549.
- " Chief Engr. 10th May/59. No 508.
Order thereon 5th June/59. No 1392.

26th August/59. No 2681
69

27th 1859 (18th 11th)
20th Jan/59. No 217.
60

Ch. (Chief Engineer)
To the Secy to Govt.

(Dated 24th Jan/56)
No 2245

No 316. 8th Feb/56
No 316

Submitting in reference to (Proceedings of Government No 2682 of August 1859) relative from the District Engineer regarding the Lithographic Presses with observations

No 119.

23rd Aug 1859

incurred, new presses
required and their des-
cription, necessity for
them, in respect to plans,
&c. &c. has been slowly
accumulated.

2. In their order of
25 August 1859. N^o 2032
Govt. pointed out that
the information called
for in their previous
order as to the extent
to which the presses al-
ready supplied had been
made use of in multi-
plying copies of plans &
maps, was not given "with
sufficient fulness or de-
tail to enable the Govt
to judge of the propriety
of supplying more presses"
and

* On letter from Ch. Engrs dated
29 July 59 N^o 5260.

And the Chief Engineer
was requested to report
"more exactly on the need
of a lithographic press
to a Dist Engineer" stating
(1st) The smallest
number of copies for
which lithographing
is cheaper than copy-
ing by hand.
(2nd) What numbers
are now made of
the various maps
and plans prepared
in a Dist Engr's office
(3rd) What number could
be usefully disposed
of if they could be
made at merely
the cost of the
paper.

paper and press work

3. In his letter recorded at the head of these Proceedings the Chief Eng^r supplies to some extent the information required

4. He submits five original letters from those District Eng^s who have been already supplied with presses and the Government observe with regret that, of the three simple questions propounded, these officers have

* Gadavari
Krishna
Bellur
South Arcot
Soyembatur

(*) Vide para 2. supra

only

only considered one, viz. the 2nd, leaving the other two totally un-¹⁹¹noticed—indeed it may be remarked that the District Engineer of Soyembatur has not answered any, and has besides by neglecting to reply to the Chief Engineer's Circular for a space of nearly four months caused a similar delay in the submission of the Chief Engineer's report.

5. With regard to the first point Col^l Bell is of opinion that 10 is the lowest ~~correct~~ number of copies for which lithographing would be cheaper than copying by hand: that if, from that number to fifty of a not very elaborate plan or map are required for immediate circulation in the District, it might be advisable for the District Engineer to strike them off

at

at his press - provided no ex-
-pense is incurred besides
that of his ordinary esta-
-blishment: that hand co-
-pying is more economical
if a smaller number is re-
-quired: and if a larger ~~or~~
supply of plans ~~for~~ of
an intricate nature should
be wanted, the work should
be undertaken by the
Lithographic Establish-
-ment at the Central
Office.

6. The information
on the 2nd point as de-
-rived from the three
Districts noted in the
margin goes to show that
from 12 to 100 copies of
a variety of plans ~~or~~
and maps have been
struck off for distribu-
-tion in the Depart-
-ment; and this has
been done at a very
small

+ Godavari.
Krishna.
+ North Arcot.

small cost, (at the expense
only of ink and paper -
in the two latter Districts)
and that great benefit
has accrued thereby in
economy of time and la-
bor. In Mellis no trial
has yet been made of the
press from a variety of
causes; and the Hoylem-
batur District Engineer
gives an opinion adverse
to the employment of
lithographic presses in
the interior, and would
rather have everything
done at the Central
Office.

7. On the third
point Col. Bell cannot
give any very precise
opinion

opinion; he thinks however that from 20 to 30 copies of a plan could be usefully disposed of, particularly if it was of a standard work.

8. The Governor ^{and} Council is not of opinion that the report of the Chief Engineer is sufficient ~~to induce him to apply~~ ^{to induce him} to apply for the lithographic press, referred to in the letters noted in the margin, for eleven other Districts.

It is very evident that they can be made of great use if the District Engineer takes sufficient interest

From Ch. Eng. 25th Sept 1858
No. 4018 para 6
Do - do 16th May 1859 No. 508
para 2

trust, as in the cases of the three Districts mentioned ^{at the} beginning of para 6 of para 1, it is to be observed that the question has a different aspect from that which it had when first started, and that as forms and statements will be more easily done at the Government or Collectorate presses, and as lithographic work of any intricacy is recommended by Colonel Bell to be made over to the ^{Print} Establishment, there is really very little left to be done at a District Lithographic press. The Government are therefore not prepared to supply for so many as eleven presses and they request Colonel Bell will now recommend a supply for those Districts where he is of opinion they are most wanted, and where there is a person already on the establishment who is acquainted with the working of such an instrument.

is likely soon to acquire such
knowledge.

The Chief Engineer may
at his option transfer the
staff now at Nagambator,
where it is evidently useless
to some other district where
it is likely to be better ap-
preciated.

Wm. J. P.

10 Copies to the
Chief Engr with 5 Encl.
P. J. 9

Public Works 1860 Depart^{mt}.
Pro. of Govt. 10th February.

N^o 316.

Pro. of the Madras Govt.
28th February 60.

From the Chief Engineer of
20. July 1860 No. 472 in Pm
16 March 1861 by.

From to by 17 Aug 1860 L. L.
2060. in Pro. 1830. Conf. N^o 1830.

Regarding orders on the
subject of extending the use of
the graphite fire-press to other
Districts.

N^o 119 & 120.