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2. To make the work complete, a small set of illustrative plates is necessary to show the different styles of drawing required for reproduction and reduction of maps and plans, as well as for architectural or landscape drawings and similar subjects; and it would be a great advantage if I might be allowed to have these done in the Photographic and Lithographic Offices, under my own superintendence, at cost price.

3. As regards the manner of publication, I am quite ready, if the required permission be given, to bring out the work with plates entirely at my own expense, and would supply Government with as many copies as may be required at the sale price; or, if the work be considered of sufficient importance to be published officially, I am quite willing that it should be so published if I may retain the copy-right and power of publishing future editions in Europe. I would in that case also ask for a few copies for private distribution.

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1888.

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REVENUE AND AGRICULTURAL DEPARTMENT.

SURVEYS.

To

ALL LOCAL GOVERNMENTS AND ADMINISTRATIONS.

Cir. No. $\frac{18.(C.)}{51-54.}$

Dated Calcutta, the 3rd April 1888.

SUBJECT.

ENQUIRES whether any of the works proposed to be published by Lieutenant-Colonel Waterhouse will be required by Local Governments, &c.

Government of India Central Printing Office.—No. 1048 R. & A.—10-4-88.—477.—G. R.

File No. 51.
Serial No. 4.

Cir. No. $\frac{1\,S.\,(C.)}{51-54.}$

FROM

W. C. MACPHERSON, ESQ.,
Offg. Under-Secretary to the Government of India,

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8. I have most of the material for all these works in my own private library, but as I require also to avail myself of information gained in the course of my official duties, or from official reports and circulars, I make the present application for permission to do so, and would take the opportunity of also asking for a general permission to use my discretion in publishing information in the photographic journals from time to time regarding the processes we are working in the office. We are indebted to these journals for a great deal of valuable information, and it seems only reasonable that we should, in return, add to the general stock of information, in cases where no private rights would be infringed nor official secrets disclosed.

9. My object in wishing to publish the above works is not so much to make any profit out of them as to make generally available material which is now lying useless, and I therefore beg to request the favour of your submitting my application for the favourable consideration of the Government of India.

Government of India Central Printing Office.—No. 1050 R. & A —24-3-88.—550.

1888.

GOVERNMENT OF INDIA.

REVENUE AND AGRICULTURAL DEPARTMENT.

SURVEYS.

To

ALL LOCAL GOVERNMENTS AND ADMINISTRATIONS.

Cir. No. $\frac{18.(C.)}{51-54.}$

Dated Calcutta, the 3rd April 1888.

SUBJECT.

ENQUIRES whether any of the works proposed to be published by Lieutenant-Colonel Waterhouse will be required by Local Governments, &c.

Government of India Central Printing Office.—No. 1048 R. & A.—10-4-88.—477.—G. E.

File No. 51.

Serial No. 4.

Cir. No. $\frac{1\,S.\,(C.)}{51—54.}$

FROM

W. C. MACPHERSON, ESQ.,

Offg. Under-Secretary to the Government of India,

To

Revenue & Agricultural Department.
Surveys.

CALCUTTA, the 3rd April 1888.

SIR,

IN forwarding the accompanying copy of correspondence* regarding the books named below which Lieutenant-Colonel J. Waterhouse, Assistant Surveyor General, proposes to publish, I am directed to enquire whether will require any copies of the books for distribution—

* Letter from the Surveyor General, No. 352 S., dated 10th February 1888, and enclosure.

	Estimated price per copy.
I.—Preparation of Drawings for reproduction by Photography .	About R3-8.
II.—Photographic and other simple Copying Processes . .	R2 to R4.
III.—Photozincography and Photolithography	R2 to R4.

I have the honour to be,

SIR,

Your most obedient Servant,

W. C. MACPHERSON,

Offg. Under-Secretary to the Government of India.

No. 352 S., dated Calcutta, the 10th February 1888.

From—Colonel H. R. Thuillier, R.E., *Surveyor General of India,*

To—*The Secretary to the Government of India.*

I have the honour to submit, for the consideration and orders of the Government, copy of a letter from Lieutenant-Colonel Waterhouse, Assistant Surveyor General in charge of the Photographic and Lithographic Offices, regarding the proposed publication by him of some books, &c., on professional subjects, and to recommend that the required sanction may be granted.

2. As regards the first-mentioned work, *viz.*, "The preparation of drawings for reproduction by photography," I consider that the publication will prove a very useful work of reference, not only for this Department but for all other Government Departments that have occasion to submit plans, maps or drawings for reproduction.

3. The best course perhaps would be to allow Colonel Waterhouse to bring out the publication at his own risk and expense, and to guarantee the purchase by the Government of a certain number of copies for official use. This Department would require 100 copies of this book, and I would suggest that the Imperial Departments of the Quarter Master General, Public Works, Railways, Telegraphs, Commissariat, Archæological and Geological Surveys, as well as the Governments of Madras and Bombay and other local Governments, may be asked their requirements.

4. The same remarks apply to the book alluded to in paragraph 6 of Colonel Waterhouse's letter, *viz.*, "A description of the different simple copying processes, photographic and others."

5. As regards the work on "photozincography and photo-lithography," I may remark that this work would not be so generally useful departmentally as the others. Twenty copies would probably suffice for the use of the technical offices of this Department, and the Governments of Bombay and Madras would doubtless find the work useful.

6. In conclusion, I have to add that I see no objection to Colonel Waterhouse being permitted to publish information in the photographic journals as proposed by him and for the reasons given in paragraph 8 of his letter.

No. 479 P., dated Calcutta, the 24th January 1888.

From—Lieutenant-Colonel J. Waterhouse, S.C., *Assistant Surveyor General in charge Photographic Office, Survey of India,*

To—*The Surveyor General of India.*

I have the honour to inform you that during the course of last year I prepared, in my leisure time, a short treatise on the preparation of drawings for reproduction by photography, in which I brought together all available information on the subject, chiefly from books in my own private collection, but also from departmental circulars and other official sources of information. The work is therefore suitable for the use of artists and draughtsmen generally who have such drawings to prepare for book illustration, &c., by various photographic processes, and more specially for those engaged in map and plan drawing for reproduction by photozincography, and I should be glad to have the permission of the Government of India to publish it for general use.

2. To make the work complete, a small set of illustrative plates is necessary to show the different styles of drawing required for reproduction and reduction of maps and plans, as well as for architectural or landscape drawings and similar subjects; and it would be a great advantage if I might be allowed to have these done in the Photographic and Lithographic Offices, under my own superintendence, at cost price.

3. As regards the manner of publication, I am quite ready, if the required permission be given, to bring out the work with plates entirely at my own expense, and would supply Government with as many copies as may be required at the sale price; or, if the work be considered of sufficient importance to be published officially, I am quite willing that it should be so published if I may retain the copy-right and power of publishing future editions in Europe. I would in that case also ask for a few copies for private distribution.

4. I cannot, at present, make an estimate of the cost of printing, but it would be comparatively trifling, probably not more than ₹200 to ₹300. The plates would add considerably to the cost, but I do not think the selling price of the book would exceed ₹3-8 per copy.

5. I have also by me the materials for a very complete work on photozincography and photo-lithography which I should also be glad to have permission to publish. It would not be worth the while of Government to publish this work, because the subject is entirely special, and only a few copies would be required for official use. If I print it in this country, I should be glad to be permitted to have any illustrations I might require done in the offices under my superintendence.

6. I have further in contemplation the preparation, during the hot weather, of a short description of the different simple copying processes, photographic and others. This is a work which is very much wanted and would be of use in our own Department as well as in all branches of the Public Works, Civil and Military, Telegraph, Quarter Master General's, and other Departments, in which the simple copying of tracings and drawings, &c., is required.

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Government of India Central Printing Office.—No. 1050 R. & A.—24-3-88.—550.

1888.

GOVERNMENT OF INDIA.

REVENUE AND AGRICULTURAL DEPARTMENT.

SURVEYS.

To

ALL LOCAL GOVERNMENTS AND ADMINISTRATIONS.

Cir. No. $\frac{18.(C.)}{51-54.}$

Dated Calcutta, the 3rd April 1888.

SUBJECT.

ENQUIRES whether any of the works proposed to be published by Lieutenant-Colonel Waterhouse will be required by Local Governments, &c.

Government of India Central Printing Office.—No. 1048 R. & A.—10-4-88.—477.—G. E.

Rev. Dept

Pros: of the Madras Govt

Read the folg: —

File No. 51.

Serial No. 4.

Cir. No. $\frac{1 \text{ S. (C.)}}{51-54}$.

FROM

W. C. MACPHERSON, ESQ.,

Offg. Under-Secretary to the Government of India,

To

Revenue & Agricultural Department.
Surveys.

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II.—Photographic and other simple Copyin Processes . .	R2 to R4.
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I have the honour to be,

SIR,

Your most obedient Servant,

W. C. MACPHERSON,

Offg. Under-Secretary to the Government of India.

Order thereon, 27 Apr. 1888 No 2531

Communicated to the Depts of the Secretariat, the Land Rev: Commissioners (Forests) and the Supt of Madras Survey for favor of early remarks

(True Extract)

(Sd) J. F. Price

Secy. to Govt P.W.D.

No. 427 dated 16th January 1888.

The Revenue Dept are informed that 5 copies of each of the publications will be required for the use of the P. W. D.

(sd) J. O. H.
W

To.
The Rev. Dept.

No. 352 S., dated Calcutta, the 10th February 1888.

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To—*The Secretary to the Government of India.*

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Government of India Central Printing Office.—No. 1050 R. & A.—24-3-88.—550.

Revenue department.

Proceedings of the Madras Government.
Read the following:-

File No. 51.

Serial No. 4.

Cir. No. 1S. (C.) 51—54.

FROM

W. C. MACPHERSON, ESQ.,
Offg. Under-Secretary to the Government of India,

To The Secretary to the Government of Madras.

Revenue & Agricultural Department.
Surveys.

CALCUTTA, *the 3rd April 1888.*

SIR,

IN forwarding the accompanying copy of correspondence* regarding the books named below which Lieutenant-Colonel J. Waterhouse, Assistant Surveyor General, proposes to publish, I am directed to enquire whether the Government of Madras will require any copies of the books for distribution—

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III.—Photozincography and Photolithography	R2 to R4.

5 of each would be required for Govt use 7/5/88

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SIR,

Your most obedient Servant,

W. C. MACPHERSON,

Offg. Under-Secretary to the Government of India.

SECRETARY TO GOVERNMENT P.W. DEPARTMENT, MADRAS. -7 MAY 88

Order thereon, 24th April 1888 No. 2551.

Communicated to the departments of the Secretariat, the Land Revenue Commissioner (Forest), and the Superintendent of Madras Survey for favour of early remark.

/True Extract/
Fredrick Price
Secretary to Govt

to the Public Works Dept

1888.

GOVERNMENT OF INDIA.

REVENUE AND AGRICULTURAL DEPARTMENT.

SURVEYS.

To

ALL LOCAL GOVERNMENTS AND ADMINISTRATIONS.

Cir. No. $\frac{18.(C.)}{51-54.}$

Dated Calcutta, the 3rd April 1888.

SUBJECT.

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Government of India Central Printing Office.—No. 1048 R. & A.—10-4-88.—477.—G. R.

P.W.C. No. 4407

R/12.5.88
E.1

V. No. 11.27 W of 16th May 1888

The Revenue Dept
are informed that
5 Copies of each of
the publications will
be required for the
use of the Public Works
Department.

Jou
7/5/88

Librarian
Surv.
16/5

The Rev. Dept. D 16/5
replies 16
May

GB 34 V
m: 8/5/88

24/5 88
17/5

Instructions for the preparation of Drawings for reproduction by Photozincography.

The following brief instructions embody all the necessary conditions for the successful reproduction of MSS. plans and drawings by Photozincography, and as success in the after processes depends entirely upon the perfection of the original drawing, satisfactory results can only be obtained by strict observance of the rules here given, which may be summed up in a few words—WHITE PAPER, BLACK INK, and FIRM OPEN DRAWING. Neglect of these essentials will entail failure and disappointment.

I. The paper on which the drawing is made should be white and smooth and free from dirt, creases or wrinkles.

II. The drawing should be executed with good Indian ink, freshly rubbed down, *quite black*, and free from grit or glaze.

III. The lines should be firm and clean, not too fine or too close together. They must all be perfectly black, and *pale* ink must on no account be used. Thick lines in the printing and borders should be well filled in.

IV. *Washes* of any colour, except *very pale* blue, are inadmissible. Any detail required to be shown in the original, but not in the copy, may be drawn in with pale cobalt-blue.

V. If cross-hatching or shading is required, the lines composing it must be kept as open and distinct as possible, and they should not be too fine but firm enough to reproduce well. Intensity of shade should be shown by an increase in the thickness of the lines rather than by their being placed close together, as it must be borne in mind that throughout the process there is a tendency for the lines to thicken, so that if they are too close they are liable to block up in the printing, and the work will appear heavy and unsightly. This rule also applies to hill shading, the darker portions of which should be drawn in thick distinct lines, but not crossed and recrossed with fine lines.

VI. As the process produces a perfect facsimile of the original, it is essential that the latter should be complete in every respect, and the drawing, printing, and writing should all be done in as neat a style as possible, so that the result may be fit for immediate publication, and not require to be altered or touched up after transfer to zinc, by which the work is always damaged more or less. The hair strokes of the printing must not be too fine.

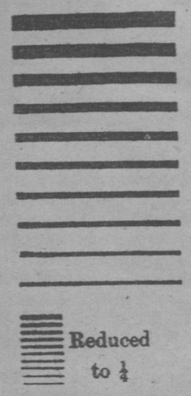
VII. When plans are intended for *reduction*, care must be taken to draw the lines of the proper thickness relatively to the scale of reduction: thus, supposing it is required to reduce a drawing to one-fourth the original scale, it will be necessary to draw every line four times as thick as it should appear in the copy. The printing and detail must also be relatively large in proportion. This rule is often neglected, and the result is the loss of all the finer lines. When drawing for *reduction*, care must be taken to leave sufficient space between the lines of the hill-shading or cross-hatching, so that they may be well separated when reduced, and may not block up in the printing.

VIII. When possible, it will be better to draw the original on a larger scale than is required for the copy, as a photographic *reduction* is always much sharper and clearer than a *reproduction*. The scale given in the annexed plate will serve as a guide to show the necessary average thickness of the lines in drawings intended for reduction or reproduction.

IX. It is immaterial how the scales on maps for *reproduction* are shown, but in all cases when the copy is to be on a different scale from the original, the scale should be stated merely as a scale of feet, yards, miles, &c., and not as a scale of so many feet, yards, miles, &c., to an inch.

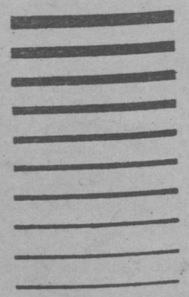
X. Drawings or tracings intended for photographic reproduction should not be folded.

Original

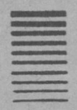


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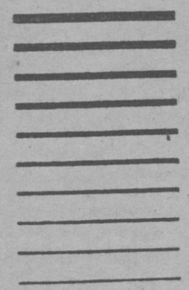
Original



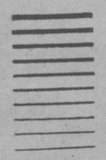
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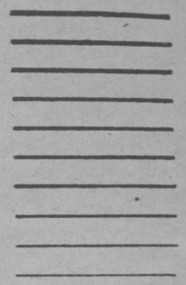
Original



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For Reproduction to Scale



Original

IN

ABU

Patna

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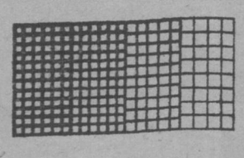
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IN

ABU

Patna

Khari



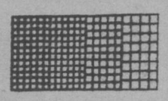
Reduced to ½

IN

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Patna

Khari



Reduced to ¼

IN

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Khari

