Public Works (1899) Department.

RAILWAY BRANCH.

G.O., No. 915. Ry

DATED 15th August 1899.

[Despatch Abstract.]

Rules for the preparation of railway projects (1893) Corrected upto May 1896

Comng: to the Agents, &c. & Supp. letter from the Govt. of India forwarding for info. & guidance, a set of Corrigenda & addenda Slips to the — which were prescribed under Govt. of India Circular No. 7 Ry of 9.10.93.

[P. W. By. 200—30-3-99.]

Indexed.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
337R	4/6/94						

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Public Works (1899) Department.

Railways

CURRENT No. 1029.

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From The Govt of India

Order- No. 915 Ry dated 15/8/99

Communicates to the Agents Madras and South Indian Railways. in continuation of G.O. No. 237R dated 4.6.94 S.B.

No. 1407 R-C

Dated 24th July 1899

Received 10th August 99

Registered —do—

Enclosures

Spare copies

FWS

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12/8/99

Despatched on 15/8/99

To Atty Thro' Sec
A Thro' T&C
LER

Noted in RK.

All offices copies of Circular 7 of 93 to be corrected.

Noted JAL 12/8/99

SUBJECT.

Rules for the preparation of railway projects (1893) corrected up to May 1896.

Forwarding for information & guidance a set of corrigenda & addenda slips to the —— which were prescribed under Govt of India circ No 7 Ry of 9/10/93

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

JOINT SECRETARY TO
RECEIVED
10 AUG. 1899
GOVT. OF MADRAS RYS.

No. 1407 R. C. of 1899.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY CONSTRUCTION.

To

THE JOINT SECRETARY TO THE GOVERNMENT OF MADRAS, PUBLIC WORKS DEPARTMENT, RAILWAY BRANCH.
THE SECRETARY TO THE GOVERNMENT OF BOMBAY, PUBLIC WORKS DEPARTMENT, RAILWAY BRANCH.
THE SECRETARY TO THE GOVERNMENT OF BENGAL, RAILWAY DEPARTMENT.
THE SECRETARY TO THE GOVERNMENT OF BURMA, PUBLIC WORKS DEPARTMENT, RAILWAY BRANCH.
THE CHIEF COMMISSIONER OF ASSAM.
THE RESIDENT IN MYSORE.
THE RESIDENT AT HYDERABAD.
THE AGENT TO THE GOVERNOR GENERAL FOR RAJPUTANA.
THE AGENT TO THE GOVERNOR GENERAL FOR CENTRAL INDIA.
THE CONSULTING ENGINEERS TO THE GOVERNMENT OF INDIA FOR RAILWAYS, CALCUTTA, LUCKNOW AND ASSAM.
THE MANAGER, NORTH-WESTERN RAILWAY.
THE MANAGER, EASTERN BENGAL STATE RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE MANAGER, EAST COAST RAILWAY.
THE ENGINEER-IN-CHIEF, INDUS BRIDGE.
THE ENGINEER-IN-CHIEF, GODAVARI BRIDGE.
THE ENGINEER-IN-CHIEF, GHAZIABAD-MORADABAD RAILWAY.
THE ENGINEER-IN-CHIEF, HURDWAR-DEHRA RAILWAY.
THE ENGINEER-IN-CHIEF, KOHAT-BANNU RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, BARA-AJMERE AND MARWAR RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, RANAGHAT GANGES AND KATIHAR RAILWAY SURVEY.

Rules for the preparation of railway projects (1893) corrected up to May 1896.

Dated Simla, the 24th July 1899.

SIR,

I am directed to forward herewith, for information and guidance, a set of corrigenda and addenda slips to the "Rules for the preparation of railway projects, 1893, corrected to May 1896," which were prescribed under Government of India Circular No. 7 Ry. of 9th October 1893.

Serial 3.

I have the honour to be,

SIR,

Your most obedient Servant,

C. J. Ba.

Under Secy. to the Govt. of India.

To The Joint Secretary to the Govt. of Madras
Public Works Department
Railway Branch.

1899

Enclosure to Government of India, Public Works Department, letter No. 1407 R. C., dated 24th July 1899.

CORRECTION SLIPS

FOR THE RULES FOR THE PREPARATION OF RAILWAY PROJECTS.

Corrected to June 1899.

No. 1.

Page 1, Chapter I, paragraph 2, clause (a).—Add the following words at the end of this clause :—

and for the collection and compilation of statistics of the traffic to be expected.

No. 2.

Page 2, Chapter II, paragraph 1.—After the sentence ending with word "recorded" in the 7th line, insert the following :—

Suggestions should be made as to probable alternative alignments, suitable station sites, etc., with general report on the materials and labour available and the traffic prospects of the line.

No. 3.

Page 2, Chapter II.—Add the following as paragraph 2 and renumber paragraphs 2 and 3 as 3 and 4, respectively :

2. Preliminary Survey—

(*a*) On a route being reported feasible a preliminary survey is made as a basis to work on for a detailed survey when ordered. In the case of a detailed survey being ordered when no reconnaissance or preliminary survey has been made, it is left to the discretion of the officer issuing orders how much and in what detail preliminary investigation has to be made concurrently with the detailed survey.

(*b*) By a Preliminary Survey is to be understood a line not necessarily fully staked out with a theodolite, but a traverse line with levels taken at such intervals as may be ordered, bench-marks being left at about half mile intervals so placed and indicated on the plan that they can be distinguished by subsequent survey parties.

(*c*) A rough plan of the country showing villages and natural features, 500 feet on each side of the line, must be made and plotted on the Traverse and all important waterways surveyed for one mile up and a mile down stream of proposed crossings. Village boundaries are not required.

(*d*) Unless otherwise ordered the plan and section should be plotted on mounted paper, the plan above the section, and submitted in rolls. Each roll of tracings from the original plates should not, if on the 400 feet scale, contain more than 20, or less than 10, miles of section.

(*e*) An approximate estimate should be taken out from the section and the final location of the line as recommended for a detailed survey should be shown in a firm Red Line on the plan. The report accompanying the estimates should give full details as prescribed on pages 24-26. The estimates may be submitted in more condensed forms than those prescribed for the detailed survey ; *e.g.*, rates per mile or per lineal foot for earthwork, tunnels, bridgework, etc., based on the experience of neighbouring railways, may be taken, but statistics of the traffic to be expected must be submitted in full detail as ordered in Chapter III, paragraph 20.

No. 4.

Page 2, Chapter II, paragraph 3, clause (a).—For the word "located" *in the 2nd line, substitute* "adopted."

No. 5.

Page 2, Chapter II, paragraph 3, clause (b).—For the word "approximate" *in the beginning of the 6th line, substitute* "accurate"; *and strike out the word* "Approximate" *in the same line. Also strike out the* "inverted commas" *in this line and the 7th line; and insert the word* "more" *in the 9th line after the words* "given by the"; *and the word* "working" *after* "detailed."

No. 6.

Page 2, Chapter II, paragraph 3, clause (d).—Add the following words at the end of this clause:—

and by full information as to the traffic to be expected.

No. 7.

Page 3, Chapter III, paragraph 2, clause (d).—Add the following after the last sentence ending with the word "expense":—

If the country is so difficult that still sharper curves seem to be desirable, the orders of the Government of India should be sought.

No. 8.

Page 3, Chapter III, paragraph 4, clause (a).—Insert the word "ordinarily" *after* "should" *in the 1st line; and substitute the item* "0·05" *for* "0·08" *in the same line; also substitute the item* "0·03" *for* "0·06" *and the word* "but" *for* "and" *in the 2nd line.*

No. 9.

Page 3, Chapter III, paragraph 4, clause (b).—Substitute "3°" *for* "2°" *in the 1st line; and* "5°" *for* "3°" *in the 2nd line.*

No. 10.

Page 4, Chapter III, paragraph 8.—Introduce the following as clause (d):—

(*d*) In undulating or broken country particular care should be taken to fit the alignment to the contours of the ground so as to minimise the cost of construction, so far as this is practicable, without unduly increasing the cost of working and maintenance.

No. 11.

Page 4, Chapter III, paragraph 9.—Add the following at the end of this paragraph:—

or for recommending alternatives if time does not permit these to be thoroughly surveyed.

No. 12.

Page 5, Chapter III, paragraph 2 of the footnote.—Insert the word "If" *in the beginning of this paragraph; substitute the words* "has to be placed" *for* "for an ordinary third class station should, as a rule, be on the main line unless it be" *in the 1st line; strike out the words* "in which case" *in the 2nd line and substitute the word* "it" *for* "the platform" *in the last line; also add the following at the end:—*

On lines also where a fast through train service is likely to develop, the platforms of stations of minor importance through which trains are likely to be run without stopping for passengers or water, etc., should also preferably be located on the siding. The passenger platforms at other third class stations should, as a rule, be on the main line.

No. 13.

Page 7, Chapter III, paragraph 20.—Add the following at the end:—

Particular care must be taken to obtain full information as to the traffic to be expected, and orders regarding the forms in which such information should be compiled will be found in Director of Railway Construction's Circular No. 784 R.C. of 9th June 1898; promulgated with Government of India, Public Works Department, No. 857 R.C., dated 21st June 1898.

No. 14.

Page 7, Chapter III.—Introduce the following as paragraph 21 and renumber the subsequent paragraphs accordingly.

21. Preliminary Report.

A preliminary report will usually be required at about the time the field work is closed, in which a general idea of the result of the survey with lengths and characteristics of the routes adopted, the probable magnitude of the principal works and a rough estimate of the probable cost of the proposed line and its various alternatives should be given to such degree of approximation as may be practicable before the detailed estimates are worked out. It should be accompanied by a general map of the country traversed and approximate section to such scale as may be convenient. A Traffic Report and Statistics will accompany this Report.

No. 15.

Page 9, Chapter IV, paragraph 1, clause (a).—Insert the following as item (a); and renumber the subsequent items accordingly.

(*a*) General map of the country traversed by the project.

Add the following at the end as item (f):—

(*f*) Details or types of structures (if necessary).

No. 16.

Page 9, Chapter IV, paragraph 1, clause (b).—Strike out the words "and interleaved with long cloth, not paper, the backing being fastened to the tracing at the right hand edge" *in the 3rd and 4th lines; and insert the following after the sentence ending with word* "up" *in this clause:—*

Interleaving with either cloth or paper is not desired. The General Map should form the first sheet and should be compiled from published maps or otherwise and to such scale as will shew the whole project and its connections and alternatives on a single sheet and an Index Section to the same horizontal scale should accompany it.

Also substitute the words "come next" *for* "from the first sheet" *in the 5th line of this clause.*

No. 17.

Page 9, Chapter IV, paragraph 1, clause (f).—Underline the words "on each sheet" *in the 3rd line.*

No. 18.

Page 9.—Insert the following after the word "inches" *in the last line of the first footnote on this page :—*

(which however should not exceed 40 inches.)

No. 19.

Page 10, Chapter IV, paragraph 2, clause (b).—Add the following at the end of this clause :—

Care should be taken that the position of every place named in the Report should be shown on this plan.

No. 20.

Page 10, Chapter IV, paragraph 3.—Introduce the following as clause (d) and renumber the subsequent clauses accordingly :—

(*d*) Care should be taken to give sufficient topographical details to exhibit the contour of the ground with accuracy, and to justify the alignment selected.

No. 21.

Page 11, Chapter IV, paragraph 3, clause (n).—Substitute the words "graded with special reference to efficient drainage" *for the last 6 words* "on grade not on the level."

No. 22.

Page 12, Chapter IV, paragraph 4, clause (b).—Insert the words "typical points selected at" *after* "taken at" *in the 2nd line; the word* "about" *after* "being" *in the 3rd line and the words* "or near" *after* "at" *in the 4th line of this clause.*

No. 23.

Page 12, Chapter IV, paragraph 5.—Add the following as clause (c) :—

(*c*) In designing station-yards the Administration of the Railway likely to be entrusted with the working should always be consulted, and full provision should be made for extensions to future developments of traffic, but nothing should be estimated for which is not absolutely essential for dealing with the traffic expected in the first year or two of the working of the line, everything in excess of this being shown in dotted lines and left to be added when actually required.

No. 24.

Page 13, Chapter V, paragraph 1.—Add the words "or Preliminary Survey" after "Reconnaissance" in item (a); also substitute the word "Project" *for* "Approximate" *in item (b); and the word* "Working" *for* "Detailed" *in item (c).*

No. 25.

Page 13, Chapter V, paragraph 3.—Substitute the word **"Project"** *for* **"Approximate"** *in the heading of this paragraph; and strike out the word* "approximate" *in the 2nd line of clause (a); also substitute the word* "Project" *for* "Approximate" *in the 2nd line of clause (b).*

No. 26.

Page 15, Chapter V, paragraph 4.—Substitute the word **"Working"** *for* **"Detailed"** *in the heading of this paragraph, and the word* "Project" *for* "Approximate" *and* "Working" *for* "Detailed" *in the 2nd line of clause (a); also substitute the word* "Working" *for* "Detailed" *in the 1st line of clause (b) and insert the word* "Fully" *in the beginning of the 2nd sentence of this clause.*

No. 27.

Page 16, Chapter V, paragraph 9, clause (b).—Add the following at the end of this clause:—

The numbers of all Major and Minor bridges and culverts, independent of span, should be consecutive in one series throughout each section of a line.

No. 28.

*Page 19, Chapter V, paragraph 14, clause (a).—Strike out the portion in italics beginning with "Engineers' plant * * * " and also its footnote.*

No. 29.

Page 20, Chapter V, paragraph 14, add the following as clause 5 (e).

5 (*e*). *Construction Plant.*—All Engineers' plant for construction purposes except, perishable articles and articles of small value, see Circular No. 13 Ry. of December 11th, 1897. A complete list of all plant charged to this sub-head should be made out shewing the proposed allocation of costs to different works.

No. 30.

Page 26, Chapter VI, paragraph 11, clause (c).—Add the following words at the end :—

in the forms laid down in Director, Railway Construction's Circular No. 784 R.C. of June 9th, 1898, promulgated with Government of India, Public Works Department, No. 857 R.C. of 21st June 1898.

No. 31.

On cover and title page strike out "Corrected up to May 1896" and paste on the slip,

Correction slips up to June 1899.

Correction slips up to June 1899.

G. C. Press, Simla. No. 809 P. W. D.—2-8-99.—3,000.