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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2682	Press
509-510	Mis.
Dated 26-7-	1865.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th July 1865.*

No. 509. Read the following Proceedings of the Madras Government in the
Financial Railway Department:—

Approving of the letter which the Consulting Engineer for Railways proposes to address to the Agents of the Railway Companies on the subject of securing a proper amount of water-way for the bridges to be constructed across the various streams intersected by the Railways. (Here enter 12th July 1865, No. 396.)

No. 510. ORDER THEREON, 20th July 1865, No. 2,082.

CIVIL WORKS, No. 69.

Communicated to the Superintending Engineers of the 3rd, 4th, 5th, 6th, and 7th Divisions.

(True Extract.)

(Signed). CHARLES A. ORR, Colonel, R. E.,

Secretary to Government.

To the Superintending Engineer, 3rd Division.

"	Do.	do.	4th	do.
"	Do.	do.	5th	do.
"	Do.	do.	6th	do.
"	Do.	do.	7th	do.

Exd. S. T. Augustin.

Proceedings of the Madras Government, Financial Railway

Department, 12th July 1865.

No. 30. Read the following letter from Lieutenant Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways, to the Honorable A. J. ARBUTHNOT, Chief Secretary to Government, Fort Saint George; dated Madras, 3rd July 1865, No. 321.

With reference to G. O., No. 1733, dated 22nd June 1865, directing me to enter into communication with Superintending Engineers of Divisions, with a view to securing a proper amount of water-way for the bridges to be constructed across the various streams intersected by the Railways, I have the honor to submit a draft of a letter which I propose to send to the Agents and Managers of the Madras and Great Southern Railways, describing the arrangements which I consider necessary on the part of their Engineers to give effect to the above order, and should it be approved by Government, I would request that it may be printed and circulated to the Superintending Engineers and Collectors whose Districts are affected by the Railways.

From Lieutenant Colonel J. C. ANDERSON, R. E., Consulting Engineer for Railways, to the Agent and ——— Railway Company; dated Madras, 1st July 1865.

The Government have passed orders to the following effect, on a recent report in the breaching of a tank near the line of the Great Southern Railway extension, by which the works were exposed to considerable danger.

2. The Government observe that all tanks, from which danger to the Railways can possibly arise, should be placed in thorough repair, and provided with suitable Calingulas; and the Superintending Engineers concerned have been directed to give their immediate and particular attention to this, and, in communication with the Consulting Engineer for Railways, will consider what amount of water-way has been provided by the Railway Engineers for their lines, wherever they intersect great drainage outfalls, and bring to the notice of Government any cases in which, in their opinion, inadequate water-way has been allowed.

3. It is evident that great inconvenience and delay to the works would be occasioned if I were not to communicate with the Superintending Engineers on the subject of the water-way allowed for various channels, until after the receipt in this office of the complete surveys and detailed plans and estimates for each particular District and Section of the Railway. It is desirable that the surveys and plans should be submitted to Government as early as possible after they have been examined; and that any inquiry into the water-way to be allowed for the various streams to be intersected by the line should be conducted prior to the compilation of the detailed plans and estimates of the bridges.

4. As soon, therefore, as the Chief Engineer has determined on the amount of water-way for the several channels in any particular Section or District, I would request you to have the goodness to call upon him to furnish me with a tracing of the Section of the line, upon which should be noted the levels of bed and top of piers (or the highest point to which water may be allowed to rise with safety to the work), and the number and width of the spans of each of the bridges proposed for construction. It is desirable that the names of all the channels should also be entered in the Section, and should the information I have required be given in a complete shape, it will be necessary for the Chief Engineer to furnish the survey plan of the line along with the section. I would request, however, that a tracing on a scale of four inches to a mile, corresponding to that of the engraved District maps, may be furnished to me, for communication to the Superintending Engineer, along with the section in a larger scale.

5. Should any objections be made by Superintending Engineers to the scale of water-way proposed by the Chief Engineer, they will be communicated to Government, along with my opinion and with that of the Chief Engineer.

6. The Government, in the order I have above explained, have issued instructions as to the procedure to be observed in regard to the larger class of bridges, but I would take the opportunity of observing that many troublesome disputes and references would be saved, if the Superintending Engineers were consulted on the arrangements of the Engineers of the Railways for passing the supply of the smaller channels, and particularly of those used for irrigation.

*Proceedings of the Madras Government, Financial Railway
Department, 12th July 1865.*

7. A reference has just been made to me by the Collector of Coimbatore regarding what appears to him the defective arrangements for culverts for several tank channels on the Great Southern Railway, a reference which would probably have been unnecessary had the Superintending Engineer or local Executive officers been consulted in the first instance.

8. Indeed not only the officers of the Department Public Works, but the Collectors, through their Tahsildars, should be made acquainted with the arrangements proposed by the Railway Engineers for bridging the irrigation channels. Differences of opinion would doubtless occasionally arise, but neither party would create them without good cause, and it is far better that they should be disposed of when the line of Railway is first laid out, than that they should be left until the works are completed or in progress.

9. In many cases I have no doubt an agreement might be obtained from the Ryots, to the effect that they were satisfied with the arrangements for bridging their irrigation channels, but in any case I conclude that the approval of the Collectors and Superintending Engineers would relieve the officers of the Railway Company from all responsibility.

10. The above remarks refer to Government channels, but there are many tanks and channels under Zemindary tenure on which Superintending Engineers have no control. In regard to them I would recommend that the arrangements for bridges and culverts may be clearly explained to the Deputy Collectors, and that in every case the Railway Engineers should obtain a written agreement from the Zemindars, or from Agents empowered to act for them, to the effect that they are satisfied. Much trouble, if not litigation, may, I believe, be averted, if these precautions are taken at the proper time.

No. 31.

ORDER THEREON, 12th July 1865, No. 396.

The Governor in Council approves of the letter which the Consulting Engineer proposes to address to the Agents of the Railway Companies on the subject of securing a proper amount of water-way for the bridges to be constructed across the various streams intersected by the Railways, and directs that copies of the same be printed and circulated to the several Superintending Engineers and Collectors named in the margin.

(True Extract).

Andrews
Acting Secretary to Government.

To the Consulting Engineer for Railways.
„ Public Works Department.
„ Collector of

Exd, J. H. Burns.

15 June 1865

2082 *Chait. No. 15*

2082

Communicated to the

Superintending Engineers of the

3rd 4th 5th 6th 7th Divisions.

For Mr. Sh. George
20th July 1865

W. B.

To the Superintending Engineers 3rd Div. 4th Div.
Do Do 5th Div. 6th Div.
Do Do 7th Div. 21st July

7th 1865 Dept
No. of Govt. for July
No. 2618

No. of Govt. in the
Railway
Financial Dept

D. 12 July 65
No. 17

No. 396.

Approving of the
~~letter which~~ ^{proposal} of the Govt. Engrs.
for Railways to address
to the Agents of the Railway
Companies on the subject
of securing a proper
amount of water-way for
the bridges to be constructed
across the various streams
intersected by the
Railways-

No. 509-570

With an Order.
No. 2082 - 20th July 1865