

Public Works (1897) Department.

G.O., No. 286 J

DATED 18 March 1897

[Despatch Abstract.]

Protective Bund at Rajahmundry.
Pro: Local Rep. Comtee. to the Municipal Council
at Rajahmundry. The Chief Engineer's note on the
proposed — for such further action as may be
necessary, Comtee. to S.E. T. C. C.

B
List.

Order № 286 of 18.3.97

Communicated to the
Supg. Engineer, First Circle,
for information.

From

The Local and Mund: Sep 29

No. 212 h-hris

Dated 12-2-97.

Received 19.2.97

Enclosures

Spare copies

Leave

174

✓ 9397

SUBJECT.

Protective fund at Rajahmundry

Communicating to the
Munl. Council of Rajahmundry
for necessary action, the
Chief Engineer's note, regard-
ing the Construction of the

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The Supp. Engineer, First Circle

Chief Engineer for Inspection

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9/3/87-

19/25

Miss G

BACK PAPERS.

[illegible]

FURTHER PAPERS.

[illegible]

Note by the Chief Engineer for Irrigation on proposed Protective Bund at Rajahmundry.

* In 1892 the inhabitants of Rajahmundry made a request for the construction of a "buttress wall" from the Judge's bungalow to Red Rocks for the protection of the streets and houses adjoining the river from inundation during floods. The matter was referred to the Superintending Engineer who reported in his NO:861.G.D.dated 30th June 1893 that a wall would be very expensive and that a bank would do equally well. The matter was allowed to lie over until it was settled whether a high level railway line was to be constructed between the town and the river.

2. The Manager of the East Coast Railway having stated that there was no necessity for a high level line and Govt having declined to provide money for the work from Provincial funds it was proposed that the Municipality should borrow the money required and the Council having expressed its readiness to do this orders were issued for the preparation of an estimate in the P.W. Department.

3. An estimate amounting to Rs 31,600 was accordingly prepared and in submitting it the Supg:Engineer called attention to Mr:Garrett's representations that the bund if constructed would cause great inconvenience to boat traffic and that drainage would stagnate on the Town side of the bank when the river was high. The various objections have been discussed and will be found stated and replied^{to} in letter NO:550 dated 29th May 1896 in which the Municipal Chairman sets forth at length the views of the Council. The work as estimated for and adopted by the Council is not merely for the protection of the town from inundation. It is also intended to construct a road between the bund and the houses in order to relieve the congestion of traffic in the main street and to sell as building sites for godowns the spare land which it is asked that Government should

make over to the Municipality. The views of the Council as to the expediency of the work are supported by the Sub Collector and Collector but the latter officer doubts whether the cost of the work would be covered by the sale of sites as anticipated by the Council. He considers however that the net cost would not be so great that the Municipality would not be able to repay the money in 10 years if Government grants the necessary loan

4. The papers were referred for remarks to the Supg Engineer who now in his letter NO:C/317, dated 8th November 1896 brings to notice that as the bund is aligned there would not be in places sufficient width for the proposed road and that to obtain the necessary space the line should be taken nearer the river. This would greatly increase the estimate as the ground ~~is~~ ^{slopes} towards the river. He also considers that the slopes allowed for the bund are insufficient, that the designs for catch drain and culverts are unsuitable and that to attain the object proposed ~~and that~~ allowing for the alterations he considers necessary in the designs, the work would cost Rupees 50,000.

5. Taking the proposals as they stand in the estimates it appears to me that all available sources of information have not ~~yet~~ been examined. The utility of the whole scheme depends on the road and building sites not being liable to inundation and this point has been discussed very inadequately and decided in a very summary manner. On examining the river diagrams I find the maximum flood level at Dowlaishweram 55.0 while on the plans of the proposed bund it is shown 61.5 to 60.5, average 61.0 or 6 feet above the ~~level~~ ^{the ancient level being 38.0} at the anicut. ~~The fall of the river between the 2 places is not now so great in low floods but will probably be 4 feet when the anicut is raised.~~ On examining the sections it will be found that the lowest level of the ground which it is proposed to

The fall of the river between the two places probably does not exceed 4 ft in low freshes but as the anicut is to be raised 2 ft the liability of the land at Rajahmundry to submergence during ordinary floods may be fairly well estimated by taking past observations at the anicut and allowing a fall of 6 ft

enclose is at the upper end of the bund 51.8 and at the lower end 46.4 and consequently the drainage of the land would be stopped whenever the water level at the anicut is ~~40.4~~ ^{2.4 ft on crest} and the land inundated from end to end when water rises to ~~45.8~~ ^{7.8 ft}. Taking the river diagrams almost at random I find that in 1892 water was above ~~40.4~~ ^{2.4 ft on crest} for 93 days continuously in July to September and for about two months in October to December and above ~~45.8~~ ^{7.8 ft} for 10 days in August & September. In 1894 and 1887 the state of the river was much the same. But it is said that there is seldom rain when the river is in flood. To test this the rainfall registers kept at Rajahmundry have been examined and it is found that the average rainfall is for

June----- 4.85 inches.
July----- 6.07--DO--
August---- 6.36--DO--
September- 7.18--DO--
October--- 7.49--DO--

in fact these are the wet months and there must be a very considerable flow from the ~~107~~ ¹⁰⁷ acres draining to the river. The conclusion from all this is that the estimate by ^{no} means represents all the work which would be required and that the whole of the enclosed land would have to be raised above the level of ordinary floods, or conveniently to the level of ends of streets abutting on the river.

As the ground shelves to the river the estimate for a wall or bund rapidly increases with distance from the houses and there seems strong reason to recommend that the Municipality should give up the idea of enclosing land for buildings and mark out what is required for the road. The P. W. Department can then be asked to estimate for a wall or ^{for raising the enclosure and making the} bund along the edge of the road, and ~~to be raised to~~ ^{road at} a suitable level.

W. H. Hughes

Chief Engineer for Irrigation-

H. E.

Endorsement from the Local & Municipal Department, NO:1032, d/2nd Sept/96
Note by the Chief Engineer for Irrigation, NO: 28 - I. dated ^{2nd Sept} 19th Novr/96

Endorsement. n^o 4825-C d/19/96

Forwarded to the Local and

Municipal Department with reference

to Endorsement NO:1032, dated 2nd ^{Septem} ~~Oct~~

~~October~~ 1896.

W. Hughes.
J.

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PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers:—

From the Collector of Godavari, Dis. on C. N.
837, dated 14th June 1896, Submitting letter
Eng. from the Chairman, Municipal Council, Rajah-
mundry requesting sanction for the construction
of a bund on the northern side of the Go-
davari river in the old Town of Rajah-
mundry and for the grant of a loan of its
estimated cost from Provincial funds.

From the same officer N^o 899. Eng. dated
1st August 1896, forwarding plans relating
to the construction of the protective bund
at Rajahmundry.

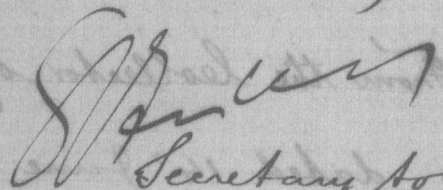
From the Public Works Department N^o
4825 C., dated 12th December 1896, submit-
ting the Chief Engineer's note on the pro-
posed protective bund at Rajahmundry.

Order N^o 212 M. Mis. dt 12th February 1897.

The Chief Engineer's note, no. 218 J. dated
2nd December 1896, will be commu-

the Municipal Council of Rajah-
mundry for such further action as
may be necessary.

(True Extract)


Secretary to Govt.

To

The Chairman, M.C., Rajahmundry.

thru' the Collector of Godavari,

(with plans & estimates recd.)

a Public Works Deptt.

